MASTER CATALOGUE 2022

www.OSCULATI.com

Sail in a sea of accessories

Extensive documentation *

5,000 downloadable files (interactive 3D models, instructions, certificates and technical specifications)

Excel-compatible

Copy/paste your orders from Excel and export your cart in a click

Best price

We always suggest the recommended quantity at the lowest price

Price lists

Check your reserved price list in real time

Your history *

Check your order history at all times, online and offline

Online support

Contact our WhatsApp support service for advice and solutions

* Only for professional customers

The preferential channel for your orders

OSCULATI,

HEADING TO THE FUTURE

A boat is like a small ecosystem.

Resource saving is crucial during navigation: preventing water, food and energy waste optimizing the use of what is available on board is necessary to limit waste production as much as possible. You have to learn to share spaces with your travel mates, bear in mind their needs and work together to live in harmony on board. In this small world made of riggings and sails, a sound mind and a clear vision of where you want to go is a must.

Life on board is the quintessence of rules and good habits you should adopt also in your everyday life. It recalls simple things, makes you understand what you can or cannot do without, raises your awareness about survival that doesn't relate to what you usually consider strictly necessary. Above all it teaches to realize your limits, respect nature and the sea.

Osculati is aware of all this and for this reason we go on sailing in the wake of innovation and sustainability. In 2021 we haven't stopped investing in technology, in human resources and in environment protection projects to turn the challenges of these last few years into opportunities to improve our company and our planet.

Our major investment has been in logistic technology aimed at offering our customers an increasingly faster and better service. As of January 2022, a new semi-automized area will be implemented where approximately half of the orders in progress will be dealt with. At the same time, we'll only use recycled plastic packaging.

We have gone on investing on people, hiring over 15 full-time staff. We strongly believe in this choice because good sails won't take you anywhere without a good crew.

We have gone on choosing to power our warehouses using only carbon offset renewable energy. What's new? This year we've also being offsetting the carbon emissions of our means of transport thus supporting the innovative Carbon Capture and Storage process of capturing and storing large quantities of CO2 in two kinds of carbon degrading algae the Venetian lagoon abounds with.

We have many ambitious targets for 2022 and we wish to pursue them with you, plying the sea with unfurled sails to deliver the vessel Earth to our children in the best possible conditions. Let sailing be long and eventful for them too.

#BLUEPLANET

Annalisa Magni
Project & ESG Manager

Alberto Emilio Osculati
Executive Director

IDENTITY

Osculati is the leading company in Italy and one among the most important companies in Europe in the marine accessory market, a safe and reliable reference point for professionals and pleasure boaters.

The company, founded in 1958 as the first marine accessory retailer in Milan, has turned into an international company and exclusive and official partner of some of the major shipyards in the world.

The third generation of the family, Alberto, Giorgio and Claudia Osculati is proud to support the Chairman Mario Osculati in the management of the company, with the help of the partners Francesco and Alessandro Gambogi.

Osculati's products can be found in thousands of shops and shipyards in 93 countries. The company has developed a professional sales force worldwide, with a turnover of € 110 million in 2021, more than 130 direct employees and a total available area of 18,000 sq.m.

OUR NUMBERS

19
tons of goods we deliver every day

93
number of countries regularly supplied with our goods

22.000
products on our Master Catalogue

7.000
osculati trademark products

138
direct employees

35.000.000 €
value of goods in our stock

95%
goods availability

1.000
new entries in our catalogue every year

18.000 mq
overall storage area

5.000
dealers worldwide

DESIGN & ENGINEERING

The product development process often starts thanks to the innovative addition that has always characterized the Osculati family and the Chairman Mario Osculati in particular.

Inputs and suggestions from our customers, mainly shipyards, as well as from the sailors and boaters that work with us, trigger a process of constant development to create new solutions that fully meet any requirements.

Over 7000 articles developed by the company's Design & Engineering department where a team of engineers and designers is dedicated to the in-house development of CAD models and the implementation of prototypes and samples by means of 3D printers.

QUALITY CONTROL

Our Integrated Quality Management Team consists of 6 internal inspectors who daily put products through different levels of quality tests according to their market category.

Our salt spray chamber and UV-chamber test both accelerated ageing due to tough marine environment and damage caused by sunlight.
Our in-house lab also tests all new products before they are placed on the market in order to offer increasingly higher quality standards.

We work with the best-known labs and institutions to perform accurate IP water-resistance tests, electrical tests as well as breaking loads tests.

- Over 65,000 annual tests
- 50 product certifications every year.
- Over 5,000 hours of salt spray chamber tests per year
- Over 1,000 hours of UV-chamber tests per year

PRODUCTS TAILORED FOR THE SHIPYARDS

Thanks to our new laser printer the items on our catalogue can be tailored by engraving logo and name.
On demand we also make products that meet specific needs in order to develop the best solutions as for design and efficiency:
- Stainless steel items designed ex-novo by the specific needs of the customer.
- Plastic tanks (for freshwater, black water, diesel and petrol) tailored to the boat spaces.
- Hatches in the desired RAL colours.

We also take care of the type testing procedures and the documents needed.

IN-HOUSE PRODUCTION

An in-house production, assembly and packaging department where by 30 specialised workers produce lights, ladders, gangways, battery switches and many other products.

This allows us the highest production process control by an ongoing monitoring of all production steps, production time reduction and flexibility to meet our customers' requirements.

Moreover thanks to a short supply chain we can be more competitive on the market.

LOGISTICS

Our marine equipment warehouse is the largest in Europe and one of the best-stocked worldwide offering over 22,000 items and goods availability exceeding 95%.

18,000 square metres, 35-million Euros worth goods in our depots, 19 tons of marine equipment shipped every day: these are the figures of Osculati's logistics.

We pursue innovation and technological upgrading. As of January 2022, a new semi-automized area will be implemented where over 40% of the orders in progress will be dealt with aimed at offering our customers an increasingly faster and better service.
This flood of items is managed by 75 qualified warehouse staff who work every day to offer the best standards in terms of efficiency, speed and safety during the preparation and shipment of goods to customers.

70% of the orders coming from the European Union is shipped on the same day while the remaining 25% is shipped the day after their reception.

RETAIL RANGE

Osculati offers a wide range of products whose packaging is tailored to the end user's needs. Each single detail is designed to be instantly recognizable and enhance the shop image and the product features.

Blister packs
Most of our small-size products are available in blister packs to be exhibited on impressive display stands. Products in blister packs have bar codes and are ready for display.

Packaging
Packaging is one of the smartest media and makes a product immediately recognizable on the shelf: the user will better appreciate its features and this is why most of OSCULATI-brand products come in a high-quality item-oriented packaging.

Every OSCULATI package shows the pictures of the product, its technical data in several languages, its item code and bar code. A colour band stands for the category the product belongs to for a fast identification on the items on display.

CERTIFICATIONS

Maximum Reliability Certified by Cerved
Cerved Group assesses the solvency and creditworthiness of companies, monitors and manages credit risk during all phases and defines marketing strategies.

Osculati makes use of Zero Impact® carbon offset renewable energy and is certified by CISQ.

ACKNOWLEDGEMENTS

2018 - Lenco
Lenco European sales award

2018 - Adi
Design and Innovation Award
Clever deck filler - 20.463.xx

2017 - SDA Bocconi
Best Performance Award

2017 - Camera di Commercio Milano
Best Company Video

2017 - Lewmar
Outstanding Sales Performance Glass and Glazing Division

2016 - Adi
Design and Innovation Award
Eclipse flush latch - 38.160.xx

2015 - Mets DAME Nomination
"Raft" safety device

2014 - Lewmar
Best winch distributor

2013 - Mets DAME Nomination
Day/Night bathiscope - 12.241.10

2012 - Mets DAME Special mention
Quick Lock Deck Filler - 20.366.xx

2011 - Whale
Best global distributor

2009 - Whale
Best global distributor

2007 - Lewmar
Best distributor of hatches and portlights

2003 - Mets Dame Nomination
Chain Rainbow - 01.500.xx

ONE FAMILY

OSCULATI new GADGET and CLOTHING line

Promotional items will be sent by our sales department upon request. Please state the code of the item you wish to receive.

CLASSIC T-SHIRT

Code: 70.190.08-21MB
Crew neck short sleeve T-shirt.
Colour: blue.
Fabric: 100% cotton, 160 g. Model: Unisex.
Available sizes: XS, S, M, L, XL, XXL, XXXL.

CLASSIC POLO SHIRT

Code: 70.190.01-21MB
Short sleeve two button polo shirt, side slits.
Ribbed collar and sleeves. **Colour:** blue with white inserts.
Fabric: 100% cotton piquet, 190 g. Model: Unisex.
Available sizes: XS, S, M, L, XL, XXL, XXXL.

SPORT WHITE POLO SHIRT

Code: MAN: 70.190.01-21MW
WOMAN: 70.190.01-21WW
Short sleeve two button polo shirt, side slits.
Ribbed collar and sleeves.
Fabric: 100% cotton piquet, 190 g.
Colour: white with blue inserts.
Available sizes: MAN XS, S, M, L, XL, XXL, XXXL.
Available sizes: WOMAN XS, S, M, L, XL.

SPORT BLUE POLO SHIRT

Code: MAN: 70.190.01-21MR
WOMAN: 70.190.01-21WR
Short sleeve two button polo shirt, side slits.
Red band under the collar. Ribbed collar and sleeves.
Fabric: 100% cotton piquet, 190 g.
Colour: blue with red inserts.
Available sizes: MAN XS, S, M, L, XL, XXL, XXXL.
Available sizes: WOMAN XS, S, M, L, XL.

CLASSIC SWEATSHIRT

Code: 70.190.11-21MB
Full zip two pocket sweatshirt. Ribbed hem and cuffs.
Colour: blue with white inserts.
Fabric: 70% cotton 30% polyester, 330 g.
Model: Unisex. **Available sizes:** XS,S,M,L,XL,XXL,XXXL.

CLASSIC SOFTSHELL

Code: 70.199.40
Three pocket softshell.
Colour: blue with white and red inserts.
Fabric: 310 g.
Model: Unisex. **Available sizes:** XS,S,M,L,XL,XXL,XXXL.

SPORT CAP

Code: 70.190.04-21W
Cap with pre-curved brim, embroidered eyelets and eyelet for lanyard attachment.
Closure: velcro.
Colour: white with blue and red inserts.
Fabric: 100% cotton.
Model: Unisex.
One size fits all

CLASSIC CAP

Code: 70.190.04-21B
Cap with DRY-TECH inner lining, suitable for outdoor sports.
Pre-curved brim and embroidered eyelets.
Closure: velcro and PVC strip.
Colour: blue.
Fabric: UPF50+, 75% nylon, 20% cotton, 5% elastam
Model: Unisex.
One size fits all

SHOPPING BAG

Code: 70.199.15-01
Reusable shopping bag made of H.D. 02 white, fold-over die cut bag. 70 My.
Dimensions: Ø 35×55x20 cm.

SHOPPING BAG WITH SHOULDER STRAP

Code: 70.199.21
Non-woven fabric shopping bag, 120 g., additional matt lamination and cardboard bottom.
Dimensions: 37x30x0.8 cm + shoulder strap 115x8 cm.

FLAG

Code: 70.199.23
Printed rectangular flag, stitched borders and two lanyards in the two corners.
Material: windproof nautical fabric 115 g.
Dimensions: 100x150 cm.

KEYRING

Code: 70.199.16-21O
Floating keyring.
Material: EVA 12 mm + central support in white PVC. White lanyard with 3 cylinders (blue, white, red) in EVA + metal ring
Measures: 6x10 cm.

THERMAL CUP/ WATER BOTTLE

#blueplanet

Code: 70.199.26-21MR
Made of SS, anti-slip rubber finishing.
Keeps temperature up to 90 min.
Colour: red.
Capacity: 450 ml.

BADGE LANYARDS

Code: 70.199.20
Neck badge satin lanyard with standard shackle.
Colour: red.
Dimensions: 2x47 cm.

STICKER

Code: **70.199.12-01** (20x16 cm)
70.199.12-02 (40x4,2 cm)
PVC sticker with OSCULATI logo.

CORNER STICKER

Code: 70.199.19
PVC sticker.
Dimensions: 45x42 cm.

BALL PEN

Code: 70.199.25-21BR
Metal ball point with blue or red refill and touch pen tip. Sold in the two colours depending on availabiliy.
Dimensions: Ø 8x142 mm.

SUSTAINABILITY

Osculati actively contributes to the goals of the United Nations' **2030 Agenda**.
All the company departments are involved in seeking to implement the various projects responsibly and sustainably.

THE GLOBAL GOALS
For Sustainable Development

Social sustainability

Preventive health care plan for the employees.

We constantly organize multidisciplinary training and refresher courses for our employees and collaborators.

We promote love and respect for the sea by means of sailing courses dedicated to our employees.

We promote a project in association with an environmental biologist addressing the primary schools in our area.

Women are present at all levels in the Company.

Installation of water purifiers to make this precious commodity available for everybody. Thanks to this project we avoid consuming 70,000 water bottles every year.

Environmental sustainability

For over 10 years we've been using only 100% carbon offset renewable energy. Our logistics warehouse is powered by a geothermal and solar energy system.

We adopt recyclable waste collection in our offices and warehouses

We offset the carbon emissions of our means of transport thus supporting the innovative Carbon Capture and Storage (CCS) process.

Economic sustainability

Products which promote sustainable consumption and a recycled cardboard packing line.

Commissioning of new machinery for recycled paper packaging.

Cooperation with agencies and associations engaged in reaching the set goals.

Blue Valley
bio fish & carbon credits

BLUE VALLEY IN A #BLUEPLANET

In 2021, Osculati has chosen to offset the carbon emissions of our means of transport joining the di Blue Valley project.

Blue Valley produces carbon credits via the innovative Carbon Capture Storage process in Valle Dogà, in the Northern Venetian lagoon, near the bank of the Sile River, on a surface of 1,680 hectares.

The Carbon Capture and Storage (CCS) process captures and stores large quantities of CO_2 in two kinds of algae the Venetian lagoon abounds with: the macroalgae, visible to the eye, and the phytoplankton. These underwater organisms degrade carbon dioxide through photosynthesis. When they die in wintertime, they deposit on the muddy seabed and become real CO_2 dumps.

Joining this project, in 2021 Osculati has offset 62 tons of CO_2 emissions.

WE ARE OFFICIAL DISTRIBUTORS FOR ITALY OF

LEWMAR	Whale	DOMETIC OCEANair	LENCO MARINE INC. LENCO
Deck equipment	**Hydraulic system**	**Shading tent**	**Electrical trim tabs**
Groups 01 02 19 46 59 68 69	Groups 15 16 17 20 50 52	Group 19	Group 51
Polyform US	BOMAR	RITCHIE *	Marlow
Fenders	**Manholes, hatches**	**Compasses**	**Ropes**
Group 33	Group 19	Group 25	Groups 06 10
IGLOO *	Yachticon	victron energy * BLUE POWER	SCANSTRUT
Ice boxes	**Cleaning products**	**Inverter/chargers**	**Accessories for mobile**
Group 50	Groups 32 36 65	Groups 12 14	Groups 14 23
OCEANSOUTH	FENDERTEX LE FABRICANT DE DÉFENSES TEXTILE	PSP marine tapes	Båtsystem
Boat covers	**Fenders**	**Adhesive stripes**	**Light fixtures**
Group 46	Group 33	Groups 10 19 33 35 57 65	Groups 13 14
LIQUI MOLY *	Mente Marine	altitude	Gobius Level Indicators
Lubrificants	**Flaps management**	**Instruments**	**Level indicators**
Group 65	Group 51	Group 28	Group 27
Princeton Tec	Henderson	TREADMASTER	Labcraft DESIGN LED LIGHTING
Flashlights	**Hand pumps**	**Antislip coverings**	**Lighting**
Group 12	Groups 15 17 20	Group 65	Group 13
HH workwear *	NOVAL	ARC MARINE	
Clothing	**Automations**	**Teak products**	
Group 24	Group 48	Group 71	

PRODUCTS INDEX PAGE 1082

* these brands are not exclusively distributed by Osculati

SOME NEW ITEMS IN THIS CATALOGUE

STAINLESS STEEL

50.103.4X
Recess-fit cooktop

Page 862

AISI 316

11.470.0X - 11.473.01 - 11.480.0X
Nemo LED navigation lights

Page 133

HIGH - STIFFNESS

22.630.XX Dinghy with inflatable deck floor

Page 448

LED

13.210.00 Moonlight high-beam light

Page 179

SELF LAUNCHING

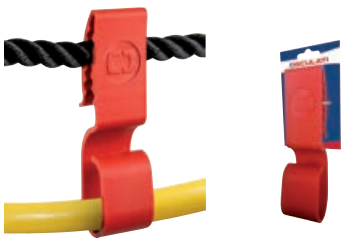
01.120-121.10
Bow roller + Trefoil® anchor with anti-water plate

Page 28

HIGH - PRECISION

38.292.00
Foldable hinge 180° rotation

Page 622



REGISTERED DESIGN

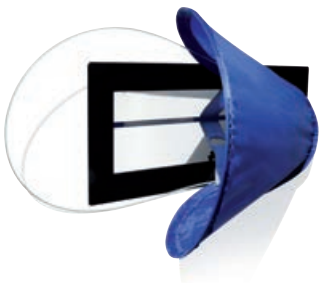
06.319.00
Cable Hook

Page 90

FLUSH

39.840.XX Rapid Lock system for fenders and bimini tops

Page 662



SELF - STANDING

23.135.01 Self-supporting Wind scoop for side porthole

Page 459

HIGH - STIFFNESS

32.783.0X Heavy Tug dual-cone drogue

Page 547

PAWS UP

49.538.20
Doggy ramp

Page 854

PET VEST

22.404.5X
Lifejacket for cats and dogs

Page 443

STANDARD/DELUX

42.365.10 SUP board or gangplank holder kit made out of board

Page 702

01

Anchoring
you can rely on

Here at Osculati we know how important it is to trust your anchor and rode, thats why we put our name on it.

A complete range of stainless steel
and galvanised products,
made to our exact specification
to enable you to anchor safely.

Swivelling twist joint

01.738.XX (page 20)
Made of mirror polished 316 stainless steel casting, due to the shape, the anchor will always rotate into the bow roller in the correct postion.

Anchor Trefoil®

Available in mirror polished stainless steel or galvanised steel, having the correct balance the design allows for fast setting, and strong and reliable holding.

► Anchors

OSCULATI

Trefoil® anchor made of hot-galvanized cast steel

With progressive penetration system.

Code	kg	A mm	B mm	C mm
01.110.02	2	175	358	210
01.110.05	5	273	469	310
01.110.07	7.5	298	531	360
01.110.10	10	320	583	375
01.110.13	12.5	330	630	395
01.110.15	15	335	655	425
01.110.20	21	395	701	470
01.110.30	32	410	800	560
01.110.50	50	470	980	660
01.110.80	80	560	1100	720

OSCULATI

Trefoil® anchor made of mirror-polished AISI316 stainless steel

AISI 316 Hand-crafted **investment cast** steel. Perfect aesthetic and dimensional result.

Code	kg	A mm	B mm	C mm
01.109.25	2.5	170	357	235
01.109.05	5	240	470	320
01.109.07	7.5	270	540	360
01.109.10	11	310	590	385
01.109.15	15	335	645	450
01.109.20	20	355	660	475
01.109.30	30	410	815	560
01.109.50	50	495	1000	665

OSCULATI

Trefoil® stainless steel slide anchor with gripping plate

Slide anchor with lock for low bows (similar to rubber dinghies) and inverted bows.

Code	kg	A mm	B mm	C mm
01.117.10	10	320	570	385

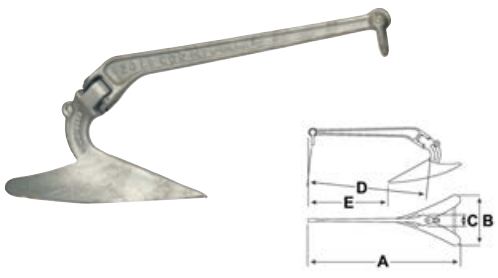
OSCULATI

Trefoil® folding grapnel anchor made of hot-galvanized cast steel

PATENT The huge holding power of Trefoil® anchors combines with the convenience of folding grapnel anchors that are easily stowed onboard.

Code	kg	A mm	B mm	C mm
01.104.05	5	240	469	315
01.104.07	7.5	273	531	361

LEWMAR®



LEWMAR C.Q.R.® anchor

Lifetime warranty against breaks and Lloyd's Test Certification as **High Holding Power anchor.**

Metal frame	Forged	kg	Recommended chain mm	Recommended for hulls up to m	A mm	B mm	C mm	D mm	E mm
01.147.07	01.145.65	7	6	6	626	253	82	439	287
01.147.09	01.145.09	9	8	9	690	279	86	484	313
01.147.11	01.145.11	11	8	11.5	740	299	90	552	336
01.147.16	-	16	8	14	827	335	94	584	373
01.147.20	-	20	10	18	901	366	100	635	405
01.147.27	01.145.27	27	10	19	989	402	106	700	445
01.147.34	-	34	11	20	1071	435	112	754	481
-	01.145.64	66	12.5	22	1337	537	128	933	583

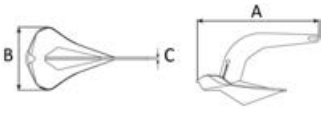
LEWMAR Epsilon anchor

SUPER-HIGH HOLDING POWER

Deriving its sturdiness and quality from the Delta anchor, the Epsilon anchor is Super-High Holding Power certified by Lloyd.
Its concave fluke and ballasted keel ensure record holding and super-fast grip.

Galvanized steel	Stainless steel	kg	Recommended chain mm	Recommended for hulls up to m	A mm	B mm	C mm
01.128.06	**01.127.06**	6	6-7	10	483	271	8
01.128.10	**01.127.10**	10	8	13	573	332	10
01.128.16	**01.127.16**	16	8	15	670	376	12
01.128.20	**01.127.20**	20	10	17	720	406	12
01.128.25	**01.127.25**	25	10	18	778	438	16
01.128.32	**01.127.32**	32	10	21	839	474	16
01.128.40	**01.127.40**	40	10	23	907	512	20
01.128.50	**01.127.50**	50	12	25	974	550	20
01.128.63	**01.127.63**	63	12	27	1049	595	22

LEWMAR



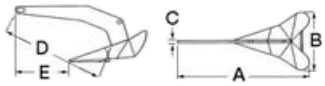
LEWMAR Delta® zinc-plated steel anchor

Its best features include:
- Exceptional holding power to grab into any seabed (including seaweed grounds).
- Quickness to re-grab the hold when the spinning boat tends to trip the anchor.
- Real ability to improve its hold when the wind increases.

Tests carried out under various conditions confirm that the Delta anchor has the best hold/weight rate. **Lifetime warranty against breaks** and Lloyd's Test Certification as **High Holding Power anchor.**

Code	kg	Recommended chain mm	Recommended for hulls up to m	A mm	B mm	C mm	D mm	E mm
01.108.04	4	6-7	7	514	228	8	387	210
01.108.06	6	6-7	9	595	263	10	450	241
01.108.10	10	8	11	695	308	12	526	283
01.108.16	16	8	13	812	360	12	614	334
01.108.20	20	10	15.5	877	389	16	663	361
01.108.25	25	10	17	945	417	16	713	384
01.108.32	32	10	18.5	1026	455	16	774	417
01.108.40	40	10	20	1099	489	20	835	446
01.108.50	50	12	23	1175	520	20	890	479
01.108.63	63	12	26.5	1278	568	22	673	518

LEWMAR

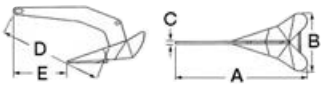


LEWMAR Delta® DTX stainless steel anchor

New version of the renowned Delta Inox, DTX is 100% of **316 stainless steel**. With unchanged and patented geometry, still unmatched, it ensures high holding power to grab into any seabed and quickness to re-grab the hold under all conditions. Certified as Ordinary Holding Power, 3-year warranty.

Code	kg	Recommended chain mm	Recommended for hulls up to m	A mm	B mm	C mm	D mm	E mm
01.106.10	10	8	9.5	695	310	13	526	282
01.106.16	16	8	13	812	362	13	614	328
01.106.20	20	10	15.5	877	392	16	663	357
01.106.25	25	10	17	945	415	16	713	387
01.106.32	32	10	19	1023	453.5	20	775	425

LEWMAR

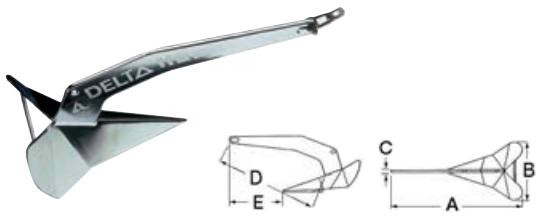


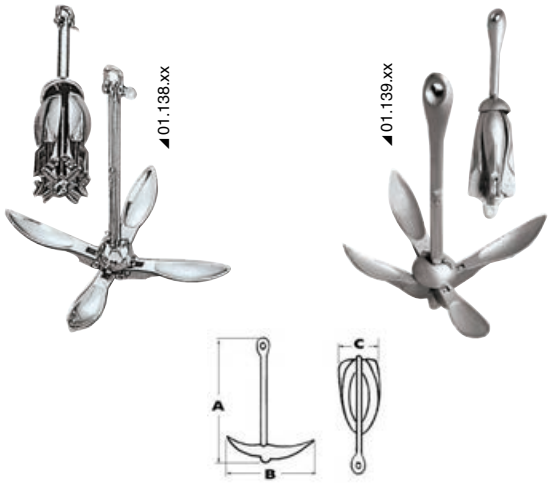
LEWMAR Delta® stainless steel anchor

Ultra-resistant stainless steel version with the same high performance as the standard Delta. **Lifetime warranty against breaks** and Lloyd's Test Certification as **High Holding Power anchor.**

Code	kg	Recommended chain mm	Recommended for hulls up to m	A mm	B mm	C mm	D mm	E mm
01.107.10	10	8	11	695	308	12	526	283
01.107.16	16	8	13	812	360	12	614	334
01.107.20	20	10	15.5	877	389	16	663	361
01.107.25	25	10	17	945	417	16	713	384
01.107.40	40	10	20	1099	489	20	835	446
01.107.50	50	12	23	1175	520	20	890	479
01.107.63	63	12	26.5	1278	568	22	673	518

LEWMAR

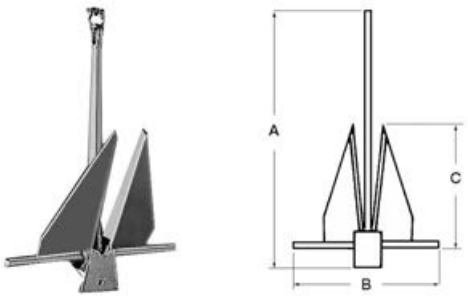




Folding grapnel anchors

- **Hot galvanized cast steel** version. Counterweight bar fitted to the shank to improve anchor balance (Norwegian SAV system).
- **Mirror-polished AISI 316 stainless steel** version, ideal for dinghies.

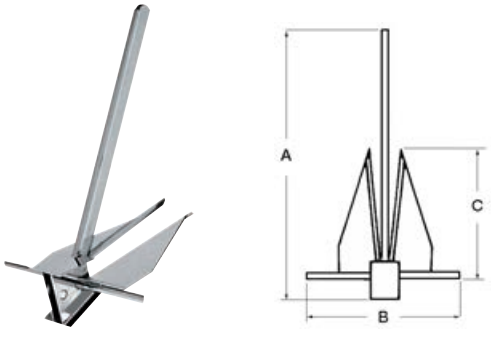
Hot-galvanized cast steel	Mirror-polished AISI 316 SS	kg	A mm	B mm	C mm
01.139.00	-	0.7	175	165	48
01.139.15	**01.138.15**	1.5	310	265	75
01.139.25	**01.138.25**	2.5	360	315	85
01.139.32	-	3.2	420	365	100
01.139.04	**01.138.04**	4	470	380	110
01.139.06	-	6	565	440	130
01.139.08	-	8	575	490	140
01.139.10	-	10	610	595	130
01.139.12	-	12	650	640	130



DANFORTH type galvanized anchor

Made of hot-galvanized steel. Very thick plate.

Code	kg	A mm	B mm	C mm
01.143.04	4	505	425	295
01.143.06	6	610	450	335
01.143.08	8	670	460	380
01.143.10	10	705	525	420
01.143.15	15	885	635	570
01.143.20	20	1001	670	585
01.143.30	30	1008	760	655

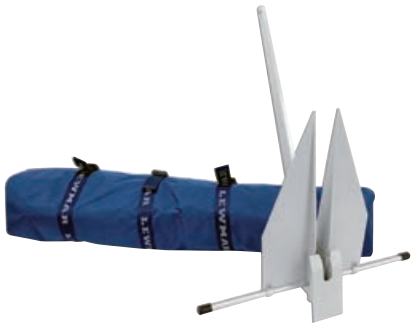


DANFORTH type AISI316 anchor

AISI 316 **Mirror-polished AISI316 stainless steel** anchors. Ideal for muddy and sandy seabeds.

Code	kg	A mm	B mm	C mm
01.146.07	7	630	485	340
01.146.09	9	670	500	400
01.146.12	12	760	540	420
01.146.15	15	900	570	430
01.146.20	22	990	665	515
01.146.28	28	1080	695	550

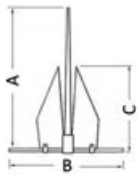
LEWMAR



LEWMAR LFX anchor

Made from high-grade anodised aluminium, the LFX anchor demonstrates exceptional anti-corrosion resistance and performs superbly under high loads while being extremely lightweight. The anchor has the additional feature of being simple to disassemble and store in a locker.

Code	kg	Recommended chain mm	Recommended for hulls up to m	OPTIONAL storage bag	A mm	B mm	C mm
01.111.02	2	6	8	**01.098.01**	564	462	342
01.111.03	3.2	6-7	10	**01.098.01**	672	550	407
01.111.04	4.5	8	12	**01.098.01**	746	610	452
01.111.07	7	10	14	**01.098.02**	853	699	517
01.111.10	10	10	16	**01.098.02**	954	781	579



FORTRESS anchor, can be disassembled

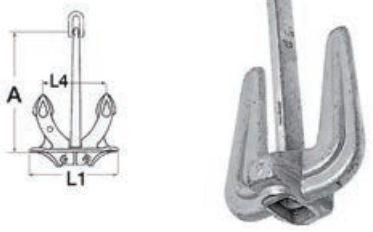
Adjustable fluke angle to adapt to any seabed. Made of sturdy anodized aluminium-magnesium alloy. Ideal as sheet anchor. Cited as the best anchor currently available on the market, it came out top in five independent tests, one of which was carried out by the U.S. Navy.

Code	kg	Replaces SS anchors kg	For hull size m	OPTIONAL canvas stowage bag	A mm	B mm	C mm
01.100.11	3.2	4/6	8/10	**01.099.02**	685	559	406
01.100.16	4.5	6/8	10/12	**01.099.03**	787	635	457
01.100.23	6.8	8/13	12/14	**01.099.04**	914	737	533
01.100.37	9.5	13/23	14/16	**01.099.05**	1016	813	610
01.100.55	14.4	23/29	16/18	**01.099.06**	1168	940	686
01.100.85	21.2	32/41	-	**-**	1300	1040	760

Hall traditional anchor

Sturdy hot-galvanized steel anchor for any seabed. Fitted with sharp-angle articulated arm.

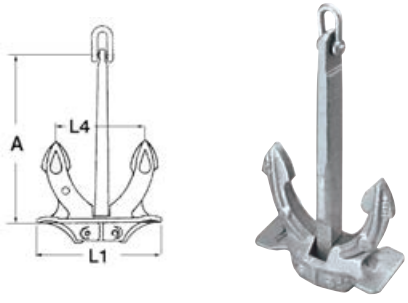
Code	kg	A mm	L1 mm	L4 mm
01.142.25	2.5	290	160	140
01.142.04	4	320	180	170
01.142.05	6	350	210	210
01.142.08	8	380	230	230
01.142.10	10	400	240	240



Hall anchor

Made of **hot-galvanized cast iron**.

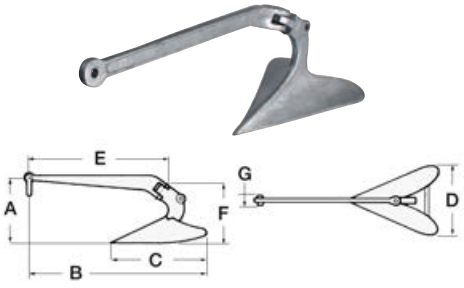
Code	kg	A mm	L1 mm	L4 mm
01.103.18	16	330	310	230
01.103.28	23	350	350	245
01.103.36	34	410	395	280
01.103.48	45	465	445	325
01.103.65	60	505	505	315



Plough anchor

Made of very thick high-strength hot-galvanized **steel**. Similar to CQR anchors, excellent performance on all seabeds.

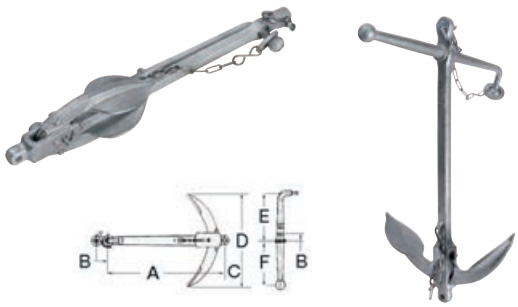
Code	kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm
01.144.07	7	260	640	340	230	540	220	55
01.144.09	9	330	780	410	280	600	280	65
01.144.12	12	320	800	430	280	650	280	65
01.144.16	16	380	950	500	320	760	310	75
01.144.22	22	400	1050	490	360	800	345	80
01.144.27	27	520	1090	520	380	830	380	85
01.144.35	35	580	1110	580	410	920	410	95



Admiralty anchor

Hot-galvanized steel anchor with **foldable flukes** for better stowage.

Code	kg	A mm	B mm	C mm	D mm	E mm	F mm
01.114.05	5	382	50	60	380	205	230
01.114.10	10	490	60	70	500	255	280
01.114.15	15	550	60	80	542	290	320
01.114.20	20	590	68	90	600	340	360
01.114.25	23.5	615	68	90	640	340	360
01.114.35	35	660	75	130	780	370	400



► Chains, connectors and anchoring accessories

OSCULATI

Hot-galvanized calibrated chain

OK FOR WINDLASS

Suitable for windlasses. The tangles of chain are delivered in wooden boxes or convenient packages easy to handle and stock. Each single metre of chain has an OSC distinctive mark to ensure quality.

Length when stretched					Ø mm	kg/m	Working load kg	Breaking load kg	Standard	P mm	B mm
25 m	50 m	75 m	100 m	150 m							
01.373.06-025	01.373.06-050	01.373.06-075	01.373.06-100	-	6	0.800	400	1600	DIN766 / ISO	18.5	20
01.373.08-025	01.373.08-050	01.373.08-075	01.373.08-100	-	8	1.400	800	3200	DIN766 / ISO	24	26
01.373.10-025	01.373.10-050	01.373.10-075	01.373.10-100	01.373.10-150	10	2.350	1250	5000	ISO	30	35
-	01.373.11-050	-	01.373.11-100	-	10	2.300	1250	5000	DIN766	28	34
01.373.12-025	01.373.12-050	01.373.12-075	01.373.12-100	01.373.12-150	12	3.350	1800	6500	ISO	36	40
-	01.373.14-050	-	01.373.14-100	-	14	4.400	2500	10000	DIN766 / ISO	41	47

OSCULATI

Hot-galvanized calibrated chain, Grade 70 high-resistance type

OK FOR WINDLASS

GRADE 70

Under the same mechanical resistance conditions, this chains enables the use of a lower section:
a) 8-mm OSC-G7 instead of 10-mm standard;
b) 10-mm OSC-G7 instead of 12-mm standard.
This allows for a 40/60% saving in weight or, weight being equal, a 40 to 60% longer chain.
The tangles of chain are delivered in wooden boxes or convenient packages easy to handle and stock. Each single metre of chain has an OSC-G7 distinctive mark to ensure quality.

Length when stretched		Ø mm	kg/m	Working load kg	Breaking load kg	Standard	P mm	B mm
50 m	100 m							
01.370.08-050	01.370.08-100	8	1.400	1400	5600	DIN766 / ISO	24	26
01.370.10-050	01.370.10-100	10	2.300	2200	8800	ISO	30	35

OSCULATI

AISI 316 stainless steel calibrated chain

OK FOR WINDLASS **AISI 316**

Suitable for windlasses. The tangles of chain are delivered in wooden boxes or convenient packages easy to handle and stock. Each single metre of chain has an OSC distinctive mark to ensure quality.

Length when stretched					Ø mm	Kg/m	Working load kg	Breaking load kg	Standard	P mm	B mm
25 m	50 m	75 m	100 m	150 m							
01.375.06-025	01.375.06-050	01.375.06-075	01.375.06-100	-	6	0.800	400	1600	DIN766 / ISO	18.5	20
01.375.08-025	01.375.08-050	01.375.08-075	01.375.08-100	-	8	1.400	800	3200	DIN766 / ISO	24	26
01.375.10-025	01.375.10-050	01.375.10-075	01.375.10-100	01.375.10-150	10	2.350	1250	5000	ISO	30	35
-	01.375.12-050	01.375.12-075	01.375.12-100	01.375.12-150	12	3.200	1800	7240	ISO	36	40

Hot-galvanized Genovese chain

Elongated link version. Ideal for fixed and dock mooring **(no winch).**

Length when stretched		Ø mm	kg/m	Working load kg	Breaking load kg
50 m	100 m				
01.372.06-050	01.372.06-100	6	0.73	340	1360
01.372.07-050	01.372.07-100	7	1.1	460	1840
01.372.08-050	01.372.08-100	8	1.33	600	2400
01.372.10-050	01.372.10-100	10	2.075	940	3760
01.372.12-050	01.372.12-100	12	3	1360	5440

AISI 316 stainless steel Genovese chain

AISI 316

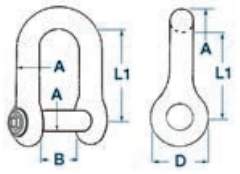
Elongated link version. Ideal for fixed and dock mooring **(no winch).**

Length when stretched 50 m	Ø mm	kg/m	Working load kg	Breaking load kg
01.374.03-050	3	0.165	110	450
01.374.04-050	4	0.3	200	800
01.374.05-050	5	0.5	310	1250
01.374.06-050	6	0.73	450	1800
01.374.08-050	8	1.3	800	3200
01.374.10-050	10	2.05	1250	5000

Shackle with Allen-head recessed pin

AISI 316

Made of **AISI 316 stainless steel**, it enables the anchor to fit into the bow rollers without getting tangled.

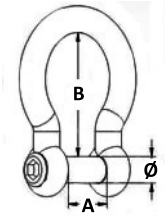


Code	A mm	B mm	D mm	L1 mm	ORDER BY BOX
01.080.05	5	10	10	20	10
01.080.06	6	12	12	24	10
01.080.08	8	16	16	32	10
01.080.10	10	20	20	40	5
01.080.12	12	24	24	48	-
01.080.14	14	28	28	63	-
01.080.16	16	32	32	64	-

Bow shackle with Allen-head recessed pin

AISI 316

Made of AISI 316 stainless steel, it enables the anchor to fit into rollers without getting tangled.



Code	Ø mm	A mm	B mm
01.081.06	6	12	27
01.081.08	8	16	37
01.081.10	10	20	46
01.081.12	12	25	55
01.081.14	14	28	60

Anchor Rode Set: line, chain, connector and anchor

The easy solution for anchor lines to suit a wide range of installations and requirements.
Each set is delivered "ready to go" in a dedicated package. The spliced mooring line is fitted with a chain link suitable to the chain.

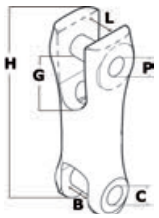
Code	Anchor type	Anchor kg	Chain Ø mm	Chain length m	Chain link	Line length	Line Ø mm	Anchor-chain connector mm	Anchor-chainconnector	Hulls with winch	Recommended for hulls up to (approx.) m
01.700.01	Grapnel	4	6	5	Genovese	35	10	8	Galvanized shackle	No	4-6
01.700.02	Grapnel	6	6	10	Genovese	35	10	8	Galvanized shackle	No	5-7
01.700.03	Grapnel	8	7	10	Genovese	35	12	10	Galvanized shackle	No	6-8
01.710.01	Hall	4.2	6	5	Genovese	35	10	8	Galvanized shackle	No	4-6
01.710.02	Hall	6.2	6	10	Genovese	35	10	8	Galvanized shackle	No	5-7
01.710.03	Hall	8.8	7	10	Genovese	35	12	10	Galvanized shackle	No	6-8
01.800.01	Trefoil	7.5	6	25	Sized	35	12	8	Swivelling joint	Yes	5-7
01.800.02	Trefoil	10	6	25	Sized	35	12	8	Swivelling joint	Yes	6-8
01.800.03	Trefoil	13	8	25	Sized	35	14	8	Swivelling joint	Yes	7-10

◀ 01.700.xx

◀ 01.800.xx

◀ 01.710.xx

OSCULATI



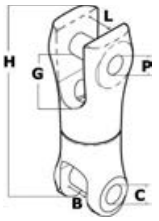
Anchor connector without protrusions

AISI 316

Anchor connector made of **AISI 316 stainless steel without protrusions**. It lets the anchor chain slide smoothly through the bow roller and avoids entangling of the shackle.

Code	Chain Ø mm	B mm	L mm	G mm	P mm	H mm	C mm
01.220.01	6/8	10	16	22	9	90	7
01.220.02	9/10	13	19	29	11	115	11

OSCULATI



Anchor swivelling connector

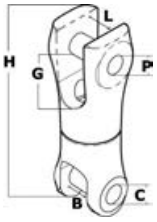
AISI 316

Made of **precision-cast AISI 316 stainless steel** without protrusions, used to connect the chain to the anchor. It lets the anchor chain slide smoothly through the bow roller and avoids entangling of the shackle. **New reinforced model with additional finish, exclusively made by Osculati.**

Code	Chain Ø mm	B mm	L mm	G mm	P mm	H mm	C mm
01.740.08	6/8	10	16	21	9	95	7
01.740.09*	6/8	10	17	20	10	90	7
01.740.10	9/10	13	21	28	11	120	11

* *Suitable for 20-kg Trefoil® anchors*

OSCULATI



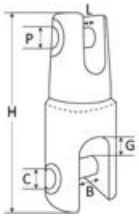
Anchor maxi swivelling connector

AISI 316

Made of **mirror polished AISI 316 stainless steel**. Used to connect the chain to the anchor, **maxi** version for 12/14 mm chains.

Code	Chain Ø mm	B mm	L mm	G mm	P mm	H mm	C mm
01.740.12	12/14	19	29	30	23	140	14

Douglas Marine



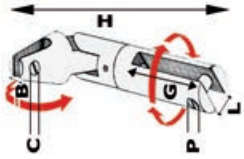
Mega swivelling anchor connector made from CNC-machined bar

AISI 316

Made of polished AISI316 stainless steel.

Code	For anchors kg	Chain Ø mm	B mm	L mm	G mm	P mm	H mm	C mm
01.740.16	50/80	14/16	35	20	36	14	176	20
01.740.17	up to 200	up to 18	38	20	36	14	176	24

OSCULATI



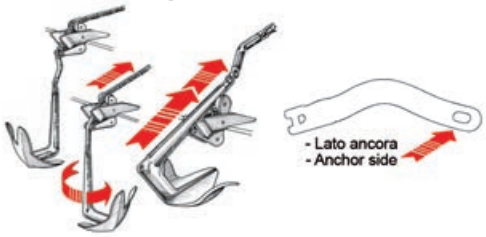
Anchor double-joint swiveling connector

AISI 316

Made of **AISI 316 stainless steel without protrusions**. This double-joint swivelling connection is the evolution of the single-joint 01.740.08/10 model.

Code	Chain Ø mm	Total length mm	B mm	L mm	G mm	P mm	H mm	C mm
01.742.08	6/8	117	9	16	21	10	95	8
01.742.10	9/10	155	13	19	28	13	120	10

OSCULATI



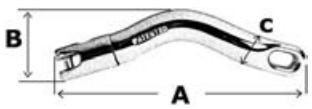
Twist anchor swivelling connector

AISI 316

PATENT

Made of mirror-polished AISI316 stainless steel. With the latest asymmetric anchors (Bruce, Delta, Trefoil® etc.), when the anchor is raised, it most probably turns the wrong side. **The Twist swivelling connector turns the anchor correctly and it reeves into the roller or hawsehole**. A shackle connects the fixed eye to the anchor.

Code	Chain Ø mm	Connecting shackle	A mm	B mm	C mm
01.738.01	6/8	**01.080.10**	220	60	28
01.738.02	10/12	**01.080.10/12/14**	320	83	38



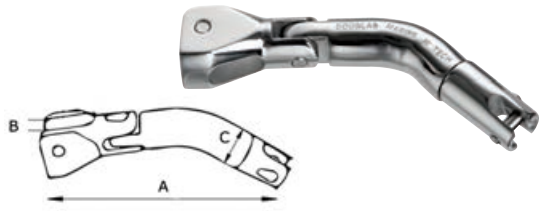
Trimmer anchor swivelling connector

AISI 316

Polished AISI 316 stainless steel. Fitted with a double joint to avoid the lever boom effect with held-on anchor. Anti-oscillation connection to the anchor during lifting when approaching the roller/bow. Safety screws. Side load 3 times as powerful as traditional connectors.

Code	Chain Ø mm	A mm	B mm	C mm
01.739.01	6/8	200	15	7/17
01.739.02	10/12	230	22	20/30
01.739.03	12	235	27	30/50

Douglas Marine

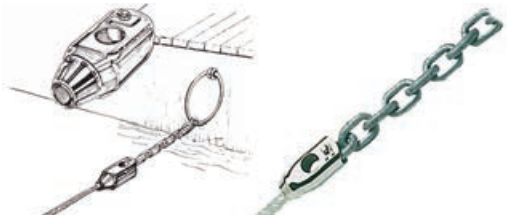


Rope/chain connector

AISI 316

Designed to connect the anchor chain into the respective line, without knots; it is also suitable for stern mooring. Made of **mirror-polished AISI 316 stainless steel**.

Code	Chain Ø mm	For ropes Ø mm
01.230.01	6	10
01.230.02	8	12
01.230.03	10	16



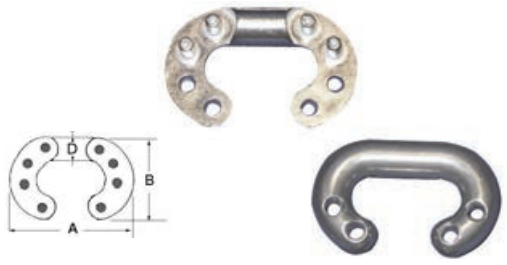
Chain link for calibrated chain

AISI 316

Made of AISI316 stainless steel. Highly resistant due to its structural design that includes 8 locking pins capable of reaching working and breaking loads equal to or higher than those of the chains. Measures in mm (while the other connecting links available on the market are in inches) that fit precisely into windlass calibrated chains, **they slide smoothly onto the gypsy preventing dangerous jamming.**

Code	Ø D mm	A mm	B mm
01.672.06	6	31.5	20.5
01.672.08	8	40.5	26.5
01.672.10	10	50.5	35.5
01.672.12	12	61	40.5

OSCULATI



Chain link

Made of stainless steel, for calibrated chain

Stainless steel	Chain Ø D mm	A1 mm	A mm	L mm	L1 mm
01.671.06	6	11	23	33	21
01.671.08	8	12.5	29	40	24
01.671.10	10	15	34.5	48	29
01.671.12	12	19	42	62	38

Galvanized steel swivel made for anchor chains and buoys

Double eye, ideal for mooring lines

Code	A mm	L mm	L1 mm	B mm	B1 mm
01.427.10	10	125	23.5	51	30.8
01.427.12	13	165	33	63	36
01.427.14	16	200	40.8	75.5	42.6
01.427.16	19	225	42.8	88.5	50

AISI316 stainless steel swivel

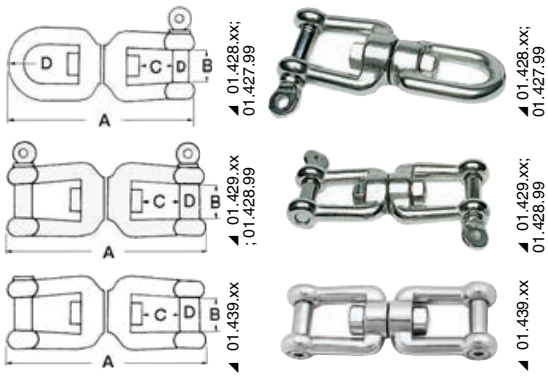
Double eye, ideal for mooring lines.

Code	A mm	L mm	L1 mm	B mm	B1 mm
01.018.04	4	50	13	19.5	11.5
01.018.05	5	60	13	23	13
01.018.06	6	65	15	26	15
01.018.08	8	90	22	35	20
01.018.10	10	115	27	44	24
01.018.13	13	148	33	59	33
01.018.16	16	188	42	75	39

Mirror-polished AISI 316 stainless steel swivel

Very sturdy, forged steel, ideal for mooring buoys, halyards, anchor chains, etc.

Shackle + shackle	Shackle + shackle (flush pin)	Eye + shackle	Eye + shackle (flush pin)	A mm	B mm	C mm	D mm
01.428.99	-	**01.427.99**	-	60	10	11	5
01.429.00	**01.439.00**	**01.428.00**	**01.438.00**	66	12	11	6
01.429.01	**01.439.01**	**01.428.01**	**01.438.01**	88	16	16	8
01.429.02	**01.439.02**	**01.428.02**	**01.438.02**	113	20	22	10
01.429.03	**01.439.03**	**01.428.03**	-	152	26	28	13
01.429.04	-	**01.428.04**	-	188	32	36	16



Braid

Made of **polyester**, as per regulations for anchors.

Code	Ø mm	Length m
01.106.00	8	30
01.106.01	10	30

Line with chain

Orange levilene line **as per regulation for anchors**. Fitted with a 2-metre galvanized chain and a shackle for connection to the anchor.

Code	Ø mm	Length m
01.105.00	8	30

Line for chain and rope windlass.

Made with three-strand white rope and **stainless steel chain link**, the end part can be connected to the windlass chain.

Code	Ø mm	Length m	Gypsy Ø mm	Chain link Ø mm	For windlasses
02.636.01	10	35	6	6	Manual mooring, Lofrans: Project x1; Italwinch 02.407.01
02.636.02	12	35	6	6	Lewmar: Pro-series 1000, V-700, V1, V2 Lofrans: Project x1, Dorado 500W, Marlin; Lewmar CPX0; Italwinch Ray; Italwinch RayLux
02.834.00	14	35	8-10	8	Lewmar: Pro-series 1000, V1, V2, V3, V4 Lofrans: Project x1-x2-x3, Project 1000-1500, Dorado 700W, Clipper 700-1000; Italwinch Thunder, Italwinch ThunderLux
02.636.05	16	40	10	10	Lewmar: Pro-series 1000, V3, V4,V5 Lofrans: Project x2-x3, Project 1000-1500, Clipper 1000; Italwinch Thunder Lux Ø 16

Anchor line made of polyester braid with lead core in the first 10 metres

Terminal with thimble and hand-made splicing.
It comes in an elegant nylon bag with blue string.

Code	Ø mm	Length m	Lead core length m	Lead weight kg	Total weight kg
06.446.10	10	30	10	3	5
06.446.12	12	30	10	4	7.5

Douglas Marine

Chain Boy chain stowing system

PATENT

It allows tidy chain stowage on all anchor chain lockers. Minimum locker height when hauling in the anchor: 80 mm for 6/8-mm chain, 100 mm for 10/12-mm chain.

Code	Base Ø mm	Head Ø mm	Adjustable height
01.550.00	150	170	325 to 475 mm by means of the inserts included

Deluxe Chain Stopper device made of pressed sheet + precision-cast parts.

AISI 316

The chain stopper device prevents the anchor rode unwanted release while the boat is in use. It also prevents shock/abnormal loading of the windlass while the boat is at anchor.
The Chain Stopper can be disengaged with a simple movement.

Code	For chain Ø mm	Base mm	Protrusion mm
01.119.34	6/8	60x50	47
01.119.35	10/12	80x70	63

◢01.747.06

◢01.747.10

New Anchor gripper kit

It consists of eyebolt and Pad-Eye + high-resistance strap + snap-hook.
To be installed near the winch as safety gripper to prevent the anchor from falling during navigation.

Code	For chain Ø mm	Length cm	Anchorage point	Snap hook
01.747.06	6/8	20	**39.181.05**	**09.247.70**
01.747.10	10/12	25	**39.873.01**	**09.247.10**

Chain Rainbow marker

PATENT **METS NOMINATION 2003**

Coloured plastic inserts for fitting into chain links. **Sold in kits for marking 25 cm of calibrated chain.**

Insert colours					For calibrated chain Ø mm	No of inserts
white	blue	yellow	red	green		
01.500.06BI	01.500.06BL	01.500.06GI	01.500.06RO	01.500.06VE	6	14
01.500.08BI	01.500.08BL	01.500.08GI	01.500.08RO	01.500.08VE	8	10
01.500.10BI	01.500.10BL	01.500.10GI	01.500.10RO	01.500.10VE	10	8
01.500.12BI	01.500.12BL	01.500.12GI	01.500.12RO	01.500.12VE	12	8

OSCULATI

Chain Rainbow marker kit, assorted colours

PATENT **METS NOMINATION 2003**

Package of assorted Chain Rainbow markers to mark a whole length of chain.
The kit includes markers in 5 colours (white, blue, yellow, red and green).

Code	For calibrated chain Ø mm	No of inserts
01.501.06	6	70
01.501.08	8	50
01.501.10	10	40
01.501.12	12	40

◢ 01.500.xx

◢ First rest on the welded side

Mooring device and anchor chain gripper

AISI 316

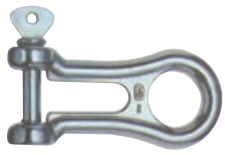
Designed to be hooked to the chain link, it relieves tension from the chain, and therefore prevents abnormal loads on the windlass. Made of **polished precision-cast AISI 316 stainless steel**.

Code	For chain Ø mm
01.744.06	6/8
01.744.10	10/12

KONG Chain gripper stainless steel U-bolt

A special U-bolt used to connect the second anchor chain to each point of the main anchor chain.
A traditional shackle is very often difficult to fit into the narrow links of a calibrated chain.

Code	For chain Ø mm
01.743.01	6/8
01.743.02	10/12



PAOMAR anchor retriever

OSCULATI

Made of **fiberglass reinforced polymer**. It **always** retrieves the anchor and the line.
Adjustable release load from 20 to 200 kg, long lasting in the marine environment.

Code	To be used with			
	anchors up to kg	hulls up to m	lines	chains
01.101.00	8	8	YES	YES

Anchor retriever

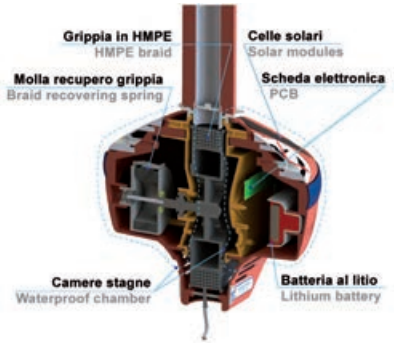
AISI 316

Made of AISI 316 stainless steel, it is used to retrieve anchors that are tangled in lines, sag of chains, chains or others.

Code	Ø mm
01.102.00	180

◢ 01.211.09

◢ Protection for anchor buoy



GRIPPY: compact and lightweight signalling buoy with self-winding UHMWPE (Ultra High Molecular Weight Polyethylene) line and night light

Fitted with 2 fully watertight chambers housing electronic and mechanical parts, which prevents possible malfunctions due to the marine environment. Extremely lightweight and compact, it has a 200-mm diameter and weighs as little as 1.2 to 1.5 kg.
The ABR version is fitted with a pioneer technology that blocks the line sliding when GRIPPY exceeds 90° inclination while retrieving the anchor so that the signalling buoy can be recovered from its line without using the boat hook.

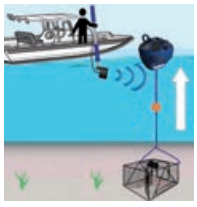
The end of the GRIPPY line has to be connected to the anchor crown, and it will automatically unwind when deploying the anchor.
The line self-adjustment lets GRIPPY float on the anchor perpendicular consequently signalling its position. At night, GRIPPY automatically activates its solar-powered night lights (LIGHT, HEAVY and ABR versions).

In case of tangled anchor, it can be tripped by retrieving the buoy rope, whose breaking load exceeds 500 kg in the BASIC and LIGHT versions and 1200 kg in the HEAVY and ABR versions. When retrieving the anchor, GRIPPY will automatically wind its line and will position under the boat bow. It comes with a convenient stanchion support (LIGHT, HEAVY and ABR versions) and a pull-out visual signaller.

Code	Model	Anchor buoy length m	Anchor buoy breaking load kg	Description	Handrail support	Ø mm	kg
01.211.01	Grippy Basic	15	500	With visual signaller	No	200	1.2
01.211.02	Grippy Light	25	500	With visual signaller + night automatic lights	Yes	200	1.2
01.211.03*	Grippy Heavy	20	1200	With visual signaller + night automatic lights	Yes	200	1.4
01.211.04	Grippy ABR	20	1200	With visual signaller + night automatic lights	Yes	200	1.5

* *Stainless steel protection for anchor buoy included.*

01.211.09 *10-m extension (1200-kg breaking load).*



GO!UP - Radio remote controlled self-flooding buoy for retrieval of creels, nets and fishing equipment

GO!UP is the first patented self-flooding buoy for professional and pleasure fishing.

It replaces the traditional floating signalling buoy used for the retrieval of creels, nets, boulters, etc. The fishing equipment cannot be damaged, stolen or tampered with because the buoy stays hidden under the waterline and only surfaces when operating the radio remote control. No installation needed on board. 100% settable, it matches any requirement.

1) Connect GO!UP to one end of the equipment using an extension to fish at the desired depth.
2) Detect the GPS point, start GO!UP and dip it into the water. Let the fishing system work.
3) To retrieve GO!UP, connect the retrieval system to the lighter plug and to the transducer.
4) Get back within 100 metres of the GPS point, dip the transducer into the water, press the retrieval control and the buoy will surface automatically.
5) Retrieve GO!UP. Its rope will wind up automatically along with the fishing system.

◢ 01.280.01

◢ 01.280.03

Code	Rope length m	Rope breaking load kg	Max tolerable depth m	Duration	Settable self-levelling	Fishing system depth m	Retrieval system	Max retrieval range m	No. of contallable buoys	kg
01.280.01	20	>500	15	>10 days @ 9 m	3/6/9 m	>500	ultracod/ 200 Khz	100	Endless	1.5

◢ 01.280.04

◢ 01.280.05

01.280.02 *PACK GO!UP NEO 4 x self-flooding buoys + retrieval control. Available on order.*

01.280.03 *GO!UP NEO Additional self-flooding buoy. Available on order.*

01.280.04 *Additional retrieval control. Available on order*

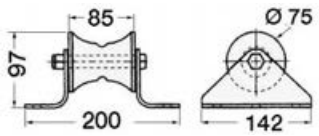
01.280.05 *Guardrail support for GO!UP*

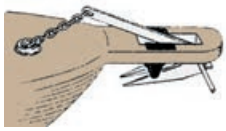
► Stainless steel rollers

Bow roller for dolphin strikers

Made of **stainless steel** for mounting **under** the dolphin striker.

Code	Sheave material	Recess fit width mm	Spare sheave
01.119.92	Hard rubber	85	**01.219.94**

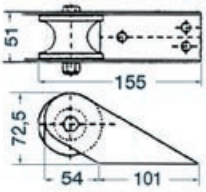




Bow roller, compact version

Made of **satin-finish stainless steel** with **nylon** sheave.

Code	Length mm	Width mm	Height mm	Spare sheave
01.118.82	155	51	72	**01.218.82**



Bow fairlead

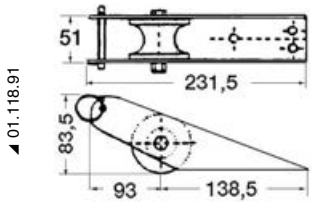
Very sturdy and practical, made of **AISI316 stainless steel**, **nylon** sheave suitable for ropes up to 14 mm and for chains up to 6/8 mm. Product by Osculati.

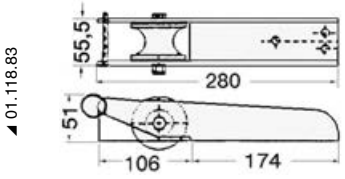
Code	Length mm	Base mm
01.349.00	130	90x90

Bow roller with safety pin

Made of satin-finish stainless steel. Hard rubber sheave.

Code	Length mm	Width with safety pin mm	Spare sheave	Anchor max weight kg	Max Ø	
					line mm	chain mm
01.118.83	280	55	**01.218.82**	15	24	10
01.118.91	231.5	51	**01.218.82**	15	24	10

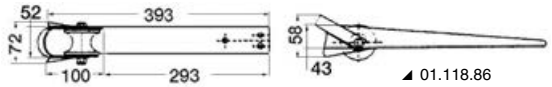


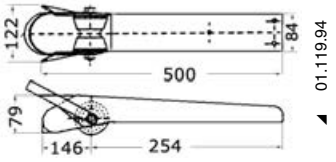


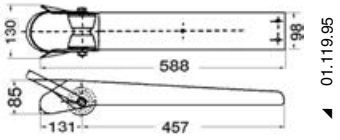
Bow roller with fairlead

Made of **satin-finish stainless steel**, suitable for mounting over or under the dolphin striker.

Code	Length mm	Width mm	Spare sheave
01.118.86	393	52	**01.218.82**
01.119.94	500	84	**01.219.94**
01.119.95	588	98	**01.219.95**



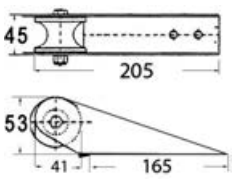




Bow rollers for small vessels

AISI 316 **Mirror-polished stainless steel** with **thermopolymer** sheave.

Code	Length mm	Width mm	Height mm	Spare sheave
01.118.80	205	45	53	**01.346.51**



OSCULATI

◢ 01.484.12/14

◢ 01.484.13

Bow roller for anchor retrieval

Stainless steel, **Chromelux®** finish, fitted with **nylon** sheave and upper safety pin.

Code	Length mm	Width mm	Height mm	Versione	Spare sheave
01.484.12	210	57	70	Standard	**01.346.50**
01.484.13	210	57	70	With anchor locker	**01.346.50**
01.484.14	170	57	70	Short	**01.346.50**

OSCULATI

Cast AISI316 stainless steel bow roller, compact version

AISI 316

Mirror-polished **precision-cast AISI 316 stainless steel** bow roller with **nylon** sheave.

Code	Length mm	Width mm	Height mm	Base mm	Spare sheave
01.484.09	155	62	75	90x62	**01.346.50**

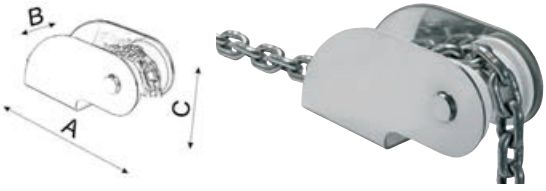
OSCULATI

AISI316 cast bow roller

AISI 316

Mirror-polished precision-cast AISI316 stainless steel, **white nylon** sheave. Universal for lines or chains up to approximately 10 kg.

Code	Length mm	Width mm	Height mm	Base mm	Spare sheave
01.484.10	221	82	80	132x82	**01.346.30**



Roller

Made of **polished stainless steel**. **Nylon** sheaves.

Code	A mm	B mm	C mm	Plate thickness mm	Suitable for anchors max kg
01.332.01	200	54	80	2	7.5
01.332.02	270	54	80	2	10

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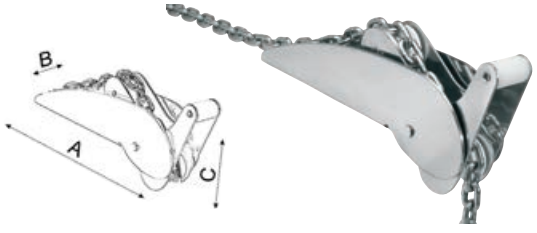
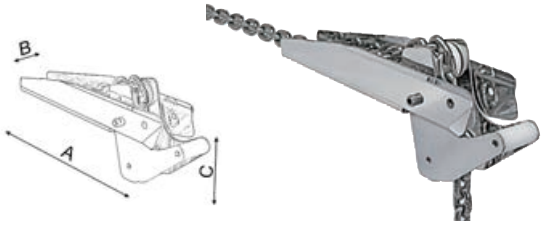


New Classic heavy hinged roller

Made of **polished stainless steel. Nylon** sheaves. Universal for DELTA / BRUCE / TREFOIL / CQR / SOC.

Code	A mm	B mm	C mm	Plate thickness mm	Suitable for anchors max kg
01.333.01	330	70	117	4	10
01.333.02	400	70	117	4	15
01.333.03	495	90	150	5	20
01.333.04	595	90	150	5	30
01.333.05	695	90	150	5	30

OSCULATI



New Compact lightweight hinged roller

Made of **polished stainless steel**. **Nylon** sheaves.
Universal for DELTA / BRUCE / TREFOIL / CQR / SOC.

Code	A mm	B mm	C mm	Plate thickness mm	Suitable for anchors max kg.
01.333.10	300	80	80	3	10
01.333.11	400	80	80	3	15

OSCULATI

◢ 01.350.01

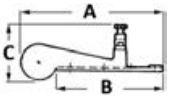
◢ 01.350.02

Bow roller with anchor locker

AISI 316

Made of **mirror-polished precision-cast AISI 316 stainless steel**. Fitted with lock for anchor models Danforth, Bruce, Trefoil®, CQR, etc. Unbreakable **stainless steel** sheave.

Code	A mm	B mm	C mm	Width mm	Version
01.350.01	205	105	155	75	Short
01.350.02	340	240	160	75	Standard

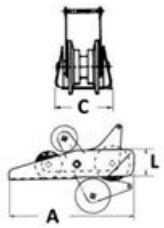


Hinged bow roller with safety pin

AISI 316

Made of **stainless steel**, suitable for all anchors up to 14 kg. **Nylon** sheave.

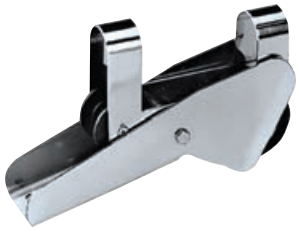
Code	Length A mm	Width C mm	Height L mm	Spare sheave	
				large	small
01.419.00	320	90	70	**01.519.01**	**01.519.02**



Hinged bow roller with fairlead up to 10 kg

Made of **mirror-polished stainless steel** plate and fitted with tilted flap and **nylon** sheave. Suitable for CQR, Danforth, Bruce and Trefoil® anchors up to 10 kg.

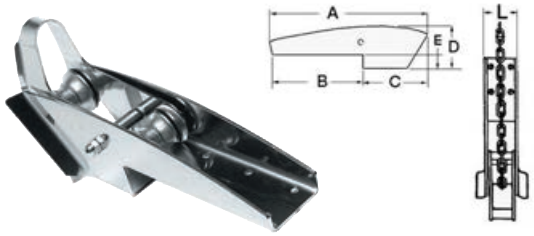
Code	Length mm	Width mm
01.218.85	310	93.7



Hinged bow roller with fairlead up to 20 kg

Made of 4-mm thick **polished stainless steel** plate, fitted with chain guide, suitable for any type of anchor from 10 to 20 kg. **Stainless steel sheave.**

Code	A mm	B mm	C mm	D mm	E mm	L mm
01.337.00	416	230	186	114	47	81

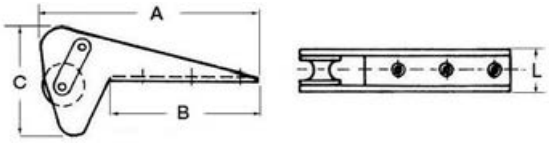


Self-locking roller

AISI 316

Suitable for Bruce and Trefoil® anchors, made of **mirror-polished precision-cast AISI 316 stainless steel**. Unbreakable **stainless steel** sheave, fitted with U-shape anchor stopper.

Code	A mm	B mm	C mm	L mm	For anchors up to max kg	For calibrated chains Ø mm
01.341.99	380	261	196	67	10	6/8
01.341.96	480	300	240	75	15	8/10
01.341.98	590	340	235	78	20	10/12
01.341.97	590	340	240	82	30	10/12



OSCULATI

Shimming chock

AISI 316

Designed to ease anchor pay-out if the bow section does not allow for the correct angle of the anchor into the roller.

Code	L1 mm	For rollers
01.341.90	45	**01.341.99**
01.341.91	57	**01.341.96/97/98**

Special roller for Bruce and Trefoil® anchors

Made of **polished stainless steel** plate, this bow roller makes the most of the Bruce and Trefoil® anchor design to provide **a self-locking** feature. **Nylon** sheave.

Code	A mm	B mm	C mm	L mm	For
01.342.10	370	250	187	89	Bruce/Trefoil® up to 10 kg
01.342.20	542	375	250	88	Bruce/Trefoil® up to 20 kg

OSCULATI

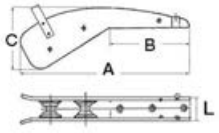
Roller with fairlead

AISI 316

Suitable for Delta, Bruce and Trefoil® anchors, made of **mirror-polished AISI stainless steel**, fitted with a double sheave. It does not include an anchor locker kit.

Code	For anchors kg	A mm	B mm	C mm	L mm	Recommended for
01.336.01	6/10	620	300	200	83	Delta 6/16 kg - Bruce/Trefoil® 7,5/15 kg
01.336.03*	16/25	670	340	170	85	Delta 16/25 kg - Bruce/Trefoil® 7,5/20 kg

* **01.339.21** *Anchor locker kit including rollers, anchor stopper and screw knob for 01.336.03*



OSCULATI

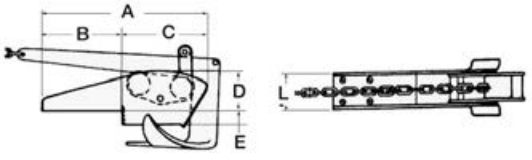
Bow roller with anchor locker kit

AISI 316

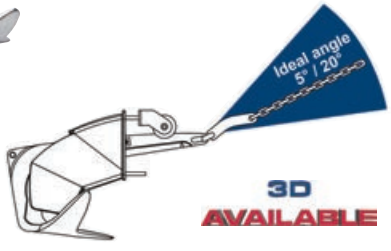
Mirror-polished cast AISI 316 stainless steel, wide overhang area to prevent anchors from touching the bow. **Stainless steel sheaves**, suitable for anchors CQR, Bruce, Danforth, Trefoil®, Delta etc.

Code	A mm	B mm	C mm	D mm	E mm	L mm	For anchor max kg	For chains Ø mm
01.339.10	410	160	250	62	25	85	12	6/8
01.339.20*	530	240	290	88	22	102	20	8/10

* **01.339.21** *Anchor lock kit including rollers, anchor stopper and screw knob for 01.339.20*



OSCULATI



New

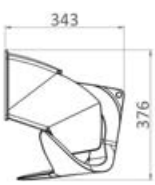
Bow roller + Trefoil® anchor with anti-water plate

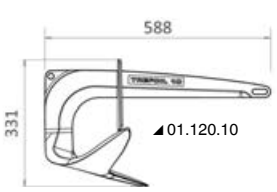
AISI 316

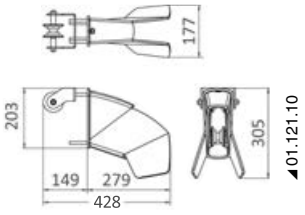
SELF LAUNCHING

Bow roller fitted with an anchor having a coupling plate that closes perfectly the hole on the hull.
This system makes the plate strike against the roller preventing water from leaking into the forepeak.
The roller is designed to match the Trefoil anchor for a combination of high-level products in style and performance.
The system can be easily installed by 4 studs behind the roller and is fitted with two sheaves for smooth sliding of the chain.
Made from 100% mirror-polished AISI316 stainless steel.
It is recommended to install it on the chain by means of the Twist joint 01.738.01.
Windlass ideal pull angle at 5° / 20° from the roller horizontal axis.

Code	Description	kg	Length mm	Width mm	Height mm
01.120.10	Trefoil anchor	10	588	383	331
01.121.10	Roller with closing system	9.3	428	177	305







Universal anchor locker

Adjustable to roller 01.337.00 and others, made of **stainless steel**.

Code	Base mm	Height mm
01.337.10	68x55	92 + knob

► Aluminium and brass rollers

OSCULATI

Angled alloy fairlead

Made of **anodized aluminium**. Single roller bow fairlead. **Nylon** sheave.

Code	Length mm	Width mm	For lines up to mm	For hulls up to m
01.340.00	160	60	13	6.5

Alloy fairlead with round base plate

Made of **anodized aluminium** by Osculati. Excellent finish. **Nylon** sheave.

Code	Length mm	Base mm	For lines up to mm
01.341.00	140	90x73	13

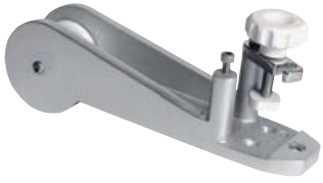
Triple roller bow fairlead

Smooth-sliding interchangeable nylon sheaves. **Chromed brass** body.

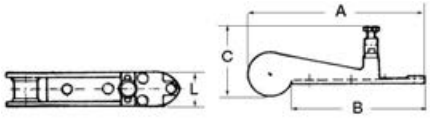
Code	For hulls	Length mm	Width mm	Height mm
01.345.00	6 to 10 m	107	100	73

Light alloy bow roller with anchor locker kit up to 10 kg

Made of **anodized aluminium**, fitted with locker. Suitable for anchors Danforth, Bruce, Trefoil® or CQR. Polished finish. **Nylon** sheaves.



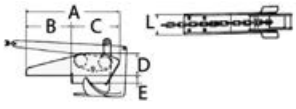
Code	A mm	B mm	C mm	L mm	For anchors up to max kg
01.347.10	340	242	160	75	10



Alloy hinged bow roller up to 12 kg

Made of **anodized polished aluminium**. Suitable for anchors Danforth, Bruce,Trefoil®, CQR and Delta. **Nylon** sheave.

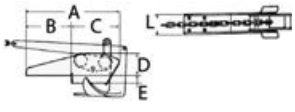
Code	A mm	B mm	C mm	D mm	E mm	L mm	For anchors up to max kg
01.335.10	365	205	160	60	13	88	12



Alloy hinged bow roller up to 15 kg

Made of **anodized aluminium**, wide overhang to prevent the anchor from touching the bow. Suitable for anchors Danforth, CQR, Trefoil®, Bruce, Delta etc. **Nylon** sheave.

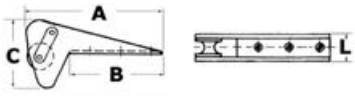
Code	A mm	B mm	C mm	D mm	E mm	L mm	For anchors up to max kg
01.336.10	410	160	250	62	25	95	15



Bruce and Trefoil® anchor roller

Made of **anodized polished aluminium**, it makes the most of the Bruce and Trefoil® anchors' shape to provide self-locking features. When the anchor is raised it is firmly fitted into the roller to avoid manual locking interventions. **Nylon** sheave.

Code	A mm	B mm	C mm	L mm	For anchors
01.343.10	380	261	196	67	Bruce, Trefoil® kg 5/7.5/10



► Hawseholes

Triangular hawsehole

AISI 316

Made of **AISI 316 stainless steel**, designed for mounting on the stern deck sides, suitable for mooring lines, on the boat (i.e. fishing lines), where the stringer cannot have any overhanging part.

Code	⟷ mm	Depth mm	Eye mm
01.663.49	200x125	45	121x70

Oval hawsehole

AISI 316

Made of **mirror-polished AISI 316 stainless steel**.
Internal threaded bushing. Hidden screws from outside.

Code	Outside mm	Inside mm	Trimming ring	Hull thickness max mm
01.352.00	140x63	97x37	NO	17
01.352.01	140x63	97x37	NO	22
01.352.02	152x82	101x50	NO	29
01.352.03	238x136	194x89	NO	22
01.352.04	241x146	171x76	YES	54

Hawsehole for anchor line

Made of **chromed brass**, with line passing hole and lock wing nuts.

Code	Recess bore Ø mm	Outside Ø mm	Usable space Ø mm	Calibrated chain max passage mm
01.351.00	128	153.5	108	8

Anchor line hawsehole with lid

AISI 316

Made of **mirror-polished AISI 316 stainless steel**.

Code	Opening mm	Ring mm	Version
01.353.01	95x60	137x100	With hinge opening

OSCULATI

Roller hawsehole

AISI 316

Made of **mirror-polished AISI 316 stainless steel**, fitted with trimming ring. The hull thickness can be cut at the required size.

Code	A mm	B mm	C mm	D mm	E mm	Cut mm	Hull thickness (to be cut) mm	Studs mm
01.353.00	340	160	270	91	105	280x100	125	8
01.353.06	248	148	180	82	60	190x92	80	6x8

► Sheaves for rollers

◢ 01.218.82 ◢ 01.219.94 ◢ 01.219.95

Hard rubber spare sheave for rollers

Code	Ø mm	Width mm	Bore mm	For rollers
01.218.82	64	43	12	**01.118.82; 01.118.83; 01.118.86; 01.118.91**
01.219.94	71	74	16	**01.119.94**
01.219.95	78	88	16	**01.119.92; 01.119.95**

◢01.519.01 ◢01.519.02 ◢01.346.20

◢01.346.22 ◢01.346.30 ◢01.346.40

Spare nylon sheave for rollers

Universal spare parts for bow rollers.

Code		Ø mm	Width mm	Bore mm	For rollers	
01.519.01		86	49	13	**01.419.00; 01.218.85**	(big roller)
01.519.02		61	49	13	**01.419.00; 01.218.85**	(small roller)
01.346.20		69	43	10.1	**01.347.10; 01.335.10; 01.336.10; 01.339.10; 01.343.10**	-
01.346.22	New	54	49	12.5	**01.333.01; 01.333.02**	-
01.346.30		88	53	12.5	**01.484.10**	-
01.346.40		40	33.5	8.3	**01.340.00; 01.341.00; 01.349.00**	-
01.346.50		52	50.5	8.3	**01.484.12; 01.484.13; 01.484.14**	-
01.346.51		41	40	8.3	**01.118.80**	-

◢01.346.50 ◢01.346.51

Spare AISI316 stainless steel sheave for rollers

Code	Ø mm	Width mm	Bore mm	For rollers
01.346.60	88	60.5	14.2	**01.336.01; 01.336.03**
01.346.62	68	43.5	14.7	**01.339.10**
01.346.64	87	54	12.4	**01.339.20; 01.341.96**
01.346.66	67	43.5	12.8	**01.341.99**
01.346.68	67.5	43.5	10.3	**01.350.01; 01.350.02**
01.346.70	99	58.5	14.5	**01.341.97; 01.341.98**

► UNIMER mooring compensators

UNIMER mooring compensator

Made of salt-resistant EPDM rubber.

Code	Length mm	For line Ø mm	g
01.495.01	332	10/12	218
01.495.02	416	12/14	448
01.495.03	520	14/18	710
01.495.04	600	20/24	1365

UNIMER U-Cleat mooring compensator with line locking mechanism

Made of salt-resistant EPDM rubber.

Code	Length mm	For line Ø mm	g
01.495.11	332	10/12	218
01.495.12	416	12/16	448
01.495.13	520	16/20	710

UNIMER Classic inline mooring compensators

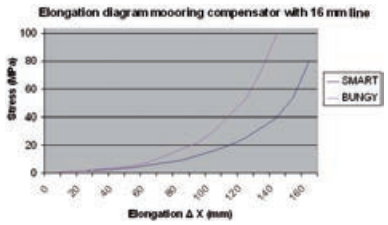
Made of salt-resistant EPDM rubber.

Code	Length mm	For line Ø mm	g
01.496.01	156	10/12	75
01.496.02	210	12/16	194
01.496.03	260	14/18	335

UNIMER Snubber elastic mooring system

Made of polyurethane material that gives it long enduring elasticity in any weather. It is fitted directly on to the line, no matter what position. Add more Snubbers for increased compensation effect.

Code	For line Ø mm	ORDER BY BOX
01.155.02	14/16	2
01.155.04	18/20	2



► Mooring compensators and springs

Mooring spring

This mooring springs ensure a **non-yielding and long-lasting** compensation effect.
- Version made of **high-strength galvanized steel**.
- Version made of **high-strength polished stainless steel**.

Safety chain to be installed.

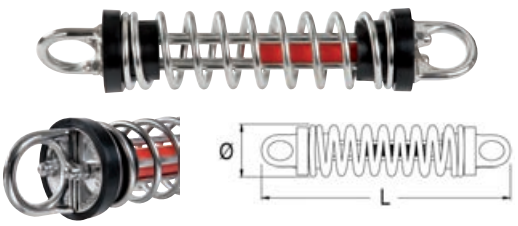
Code	Version	Ø mm	Max length mm	Thread Ø mm	Max compression load	kg	For hulls up to m. (approx.)	Hull max weight kg
01.189.06	Galvanized steel	53	270	5.5	140	0.6	5	1000
01.189.09	Galvanized steel	66	320	6.5	200	0.9	7	2000
01.189.12	Galvanized steel	74	350	8	250	1.6	9	3500
01.189.17	Galvanized steel	90	380	9.5	350	2.7	11	7000
01.189.19	Galvanized steel	93	400	12	630	2.9	13	10000
01.199.06	Polished S.S.	50	270	5	95	0.4	5	1000
01.199.08	Polished S.S.	62	320	6	140	0.6	7	2000
01.199.11	Polished S.S.	69	320	7	200	0.9	9	3500
01.199.14	Polished S.S.	81	415	9	250	1.7	11	7000
01.199.16	Polished S.S.	89	390	10	450	2.3	13	10000

Polished stainless steel mooring spring

High-resistant low-noise model fitted with friction inserts]and **stainless steel** tension rods and bolts.
Safety chain to be installed.

Code	Outside Ø mm	Length mm	Wire Ø mm	For boats up to m (approx.)
01.202.06	57	300	5	7
01.202.08	59	300	6	7
01.202.11	73	400	7	9
01.202.14	87	470	9	11
01.202.16	91	470	11	13/14

Douglas Marine



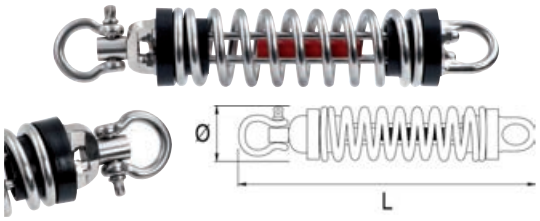
New — DOUGLAS MARINE Silenced Springs mooring device

PATENT

Made of specific HR stainless steel, they are equipped with anti-tension end-of-stroke and the particular heads allow a perfect axiality during traction.

Code	For boats up to m	Ø mm	Length mm	Flush Ø mm	Absorbing force kg	Break load kg
01.198.06	6	70	310	5	60	1370
01.198.08	8	70	350	6	100	1830
01.198.11	11	75	380	8	120	2500
01.198.14	14	90	480	9	190	3800
01.198.16	16	90	480	12	400	6200

Douglas Marine



DOUGLAS MARINE Cardan mooring device

The mooring spring is fitted with **cardan rotation device on articulated-head stainless steel ball bearings** to **prevent lines and chains from twisting** and to ensure perfect axiality and parallelism of the spring operation.

Code	For boats up to m	Ø mm	Length mm	Wire Ø mm	Elastic capability kg	Breaking load kg
01.203.11	11	75	380	8	120	2500
01.203.14	14	90	480	9	190	3800
01.203.16	16	90	480	12	400	6200

Variable pitch polished steel mooring spring

This technology means that the load is increased **progressively** as the spring is pulled. The coils that are close together start working first, then the coils that are further apart begin to work as the load increases. This helps to prevent the spring violently 'bottoming out' and becoming damaged under the sudden shock loading when this occurs.
Safety chain to be installed.

Code	Ø mm	Length mm	Lock load	kg	For hulls up to m (approx.)	For hulls max kg (approx.)
01.201.02	60	250	180	0.8	10-12	7000-10000
01.201.03	70	300	350	1.6	13-14	12000-15000

► DOUGLAS MARINE Master Moorings devices

Douglas Marine

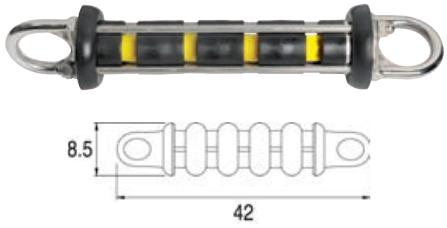
Thanks to the use of components (High resistance stainless and special elastomers), this product resists temperatures ranging from -40°C to +120°C and can endure more than 400,000 compressions (max compress). Weight and overall dimensions are reduced by up to 25% compared to equivalent products on the market. The Master Mooring devices deliver a gradual shock absorbing action due to the differentiated hardness of the elastomer materials. Wear-and-tear resistant compression stoppers included.

DOUGLAS MARINE Master Mooring Junior device

PATENT

Mooring compensators for 7- to 20-ton vessels.

Code	For boats tons	kg	Breaking load kg	Stroke mm	Elasticity kg
01.207.01	7-9	2.2	15.000	120	160
01.207.02	9-13	2.3	15.000	120	250
01.207.03	13-17	2	15.000	120	450
01.207.04	17-20	2.4	20.000	120	750

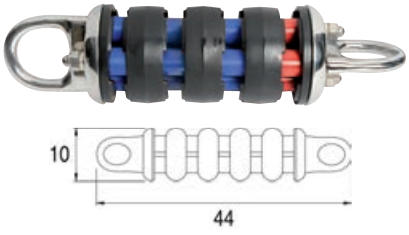


DOUGLAS MARINE Master Mooring 20

PATENT

Mooring compensators for 20- to 45-ton vessels.

Code	For boats tons	kg	Breaking load kg	Stroke mm	Elasticity kg
01.208.01	20-25	3.4	27.000	90	1400
01.208.02	25-35	3.4	27.000	90	1600
01.208.03	35-45	3.4	27.000	90	2300

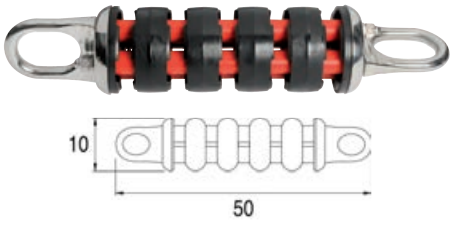


DOUGLAS MARINE Master Mooring 30 device

PATENT

Mooring compensators for 45- to 90-ton vessels.

Code	For boats tons	kg	Breaking load kg	Stroke mm	Elasticity kg
01.209.01	45-55	3.8	27.000	140	2400
01.209.02	55-70	3.8	27.000	140	2600
01.209.03	70-90	3.8	27.000	140	2800

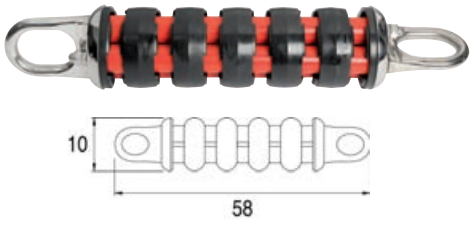


DOUGLAS MARINE Master Mooring GIGA device 40

PATENT

Mooring compensators for 90- to 150-ton vessels.

Code	For boats tons	kg	Breaking load kg	Stroke mm	Elasticity kg
01.210.01	90-130/150	5.2	30.000	180	3500

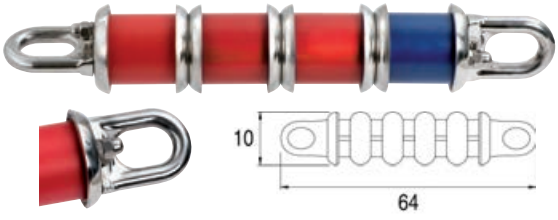


DOUGLAS MARINE Master Mooring GIGA 45 mooring device

PATENT

Mooring compensators for 150- to 350-ton vessels.

Code	For boats tons	kg	Breaking load kg	Stroke mm	Resilience kg
01.210.02	150-350	7.8	35.000	165	4800

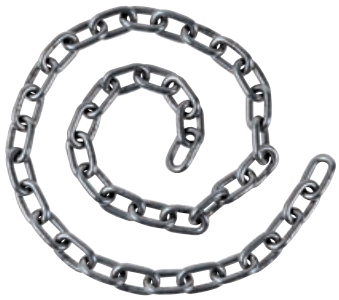


DOUGLAS MARINE mooring belt

PATENT

It avoids the major inconvenients caused by the use of chains. Extremely resistant (breaking load exceeding the one of 14-mm diameter chain), lightweight and safe because it avoids damage to the gel-coat in case of impact and does not produce rust onboard.

Code	Length m	Colour	Breaking load kg
01.206.00	1.25	Blue	11.800
01.206.01	2.00	Blue	11.800



AISI 316 stainless steel chain piece

AISI 316 To be used for fixing stern mooring lines to stern rings or bollards in harbours.

Code	Chain Ø mm	Piece length m	ORDER BY BOX
01.474.06	6	1	2
01.474.08	8	1.25	2
01.474.10	10	1.5	2

► Mooring aid devices

Click: radio remote controlled self-flooding buoy for retrieval of the mooring line ((lazy line)

Clik retrieves the mooring lines on the bow without making the lazy line run manually from one side of the boat to the other: mooring operations are simpler, faster and safer.

This system doesn't interfere with boats in transit and doesn't touch the propellers since it doesn't float: this buoy, fastened to an end of the lazy line, sinks along with the mooring lines when they're released and is retrieved to surface by a radio remote control installed on the boat (GOLD version) or integrated into the MHOOK-e boat hook (GOLD Easy version).

A self-winding strap housed inside the system connects to the lazy line by means of a buckle and unwinds to get back to surface. A magnetic device located on the MHOOK or MHOOK-e boat hook attracts the buoy and makes retrieval very simple. Once CLIK raised and the strap retrieved, the line will be ready for mooring. CLIK needs no battery charger since it is fitted with 4 high-efficiency solar cells. It also has a dusk sensor that activates its LED light in case of use at night. CLIK is international patent pending and is 100% made in Italy.

Code	Model	Description	Ø mm	kg
01.270.01	Click Gold	Clik buoy with Mhook retrieve system (boat hook), 12V haul-in control to be glued to the hull, double radio remote control, stanchion support, counterweight	200	1.7
01.270.02	Clik Gold Easy	Clik buoy with Mhook-e retrieve system and integrated haul-in control (dip boat hook ti pinto water to send haul-in message to buoy), stanchion support, counterweight	200	1.7

► Lewmar stainless steel windlasses

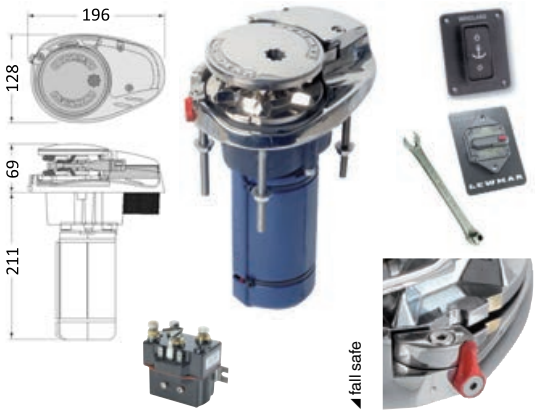
LEWMAR V700 windlass

AISI 316 | **FALL SAFE** | **IP67**

AISI316 SS construction.
Easy to install as no deck modification is needed, it only requires the use of a crown cutter.
IP67 watertight up to one meter, 5-year warranty.
Impact-resistant motor cover.
Fall Safe anchor lock (see picture).
Suitable for lightweight boats 6 to 9 metres.
It includes:
- Bridge control.
- Solenoid.
- Circuit breaker.
- Clutch release lever.
- Fast mounting studs.
- Template and gasket.
- Instructions in 6 languages (including Italian).

Ready to fit chain counter sensor.

LEWMAR



Code	Motor		Gypsy		Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	chain Ø mm	line Ø mm	max	continuos	max	continuos				
02.534.06	12	320	6	12	320	79	25	15	45	35	6 to 9 m	6.5

02.534.86 *Spare gypsy for 6-mm Ø chain*
02.531.99 *Spare clutch release lever*
02.590.21 *Spare solenoid for Lewmar windlasses up to 700 W with dual chain, models 700V; ProSeries.*

LEWMAR PRO-Series 1000 windlass

AISI 316

LEWMAR

Mirror-polished AISI316 SS construction. Easy to install, it only requires one bore to let the chain through. Efficient and reliable, faster line speed than most equivalent products.
Built-in manual recovery system with the use of included **socket wrench**. 5-year warranty.

It includes:
- Bridge control.
- Solenoid.
- Circuit breaker.
- Clutch release lever.
- Fast mounting studs.
- Template and gasket.
- Ready to fit chain counter sensor.
- Instructions in 6 languages (including Italian).

Ideal for shipyards searching for fast installation, quality and style.
Also perfect for the aftermarket for its **all-inclusive package** and DIY mounting.

Code	Motor		Gypsy		Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	chain Ø mm	lline Ø mm	max	continuos	max	continuos				
02.531.06	12	700	6	12	454	113	32	27	50	70	9 to 12 m	9.5
02.531.08	12	700	8	14/16	454	113	32	27	50	70	9 to 12 m	9.5

02.531.86 *Spare gypsy for 6-mm Ø chain*
02.531.88 *Spare gypsy for 8-mm Ø chain*
02.531.99 *Spare clutch release lever*
02.590.21 *Spare solenoid for Lewmar windlasses up to 700 W with dual chain, models 700V; ProSeries.*

LEWMAR

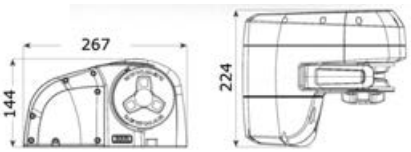
02.606.99

LEWMAR HX1 GO windlass kit, 500W and 800W

IP67

The HX range offers a completely new project both inside and outside: the result is a new, robust and reliable windlass with in-line motor and worm wheel gearbox. The HX range features an aluminium case designed to resist years.
Covers are made of polymer.

2 models available as gypsy: 6/7mm and 8mm.
Motor range 500 and 800W, IP67 cover. Silent under load.
Manual Free Fall kit to install on the gypsy available.

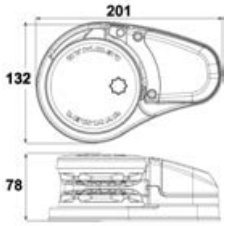


Windlass with deck unit, motor, solenoid and gypsy	Motor		Gypsy		Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	chain Ø mm	line Ø mm	max	continuous	max	continuous				
02.605.06	12	500	6-7	12-16	700	175	20	5	75	70	6 to 9 m	9.5
02.606.06	12	800	6-7	12-16	1065	267	21	5	105	90	9 to 13 m	9.5
02.606.08	12	800	8	12-16	1065	267	21	5	105	90	9 to 13 m	9.5

02.606.99 *HX1 free release kit.*

► LEWMAR VX series stainless steel windlasses

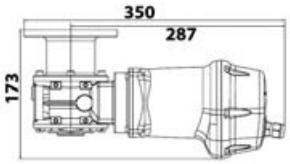
LEWMAR



LEWMAR VX1 GO windlass kit, 300W and 500W

IP67

- Stainless steel construction and composite details.
- Patent-pending sturdy hybrid gypsy, **very silent, lightweight** and suitable for rope/chain.
- **Fitted with magnet and chain counter sensor.**
- Manual clutch release.
- Same footprint as V1 model.
- Robust worm wheel gearbox.
- **IP67** certified motor gearbox.
- Solenoid included.
- Easy to adjust and install.



Windlass with deck unit, motor gearbox, solenoid and gypsy	Motor		Gypsy		Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	chain Ø mm	line Ø mm	max	continuous	max	continuous				
02.590.06	12	300	6-7	12-16	400	100	25	6	66	50	6 to 9 m	12.5
02.591.06	12	500	6-7	12-16	675	169	25	6	126	70	6 to 9 m	12.5
02.591.08	12	500	8	12-16	675	169	25	6	126	70	6 to 9 m	12.5

LEWMAR

02.593.06-08

02.594.06-08

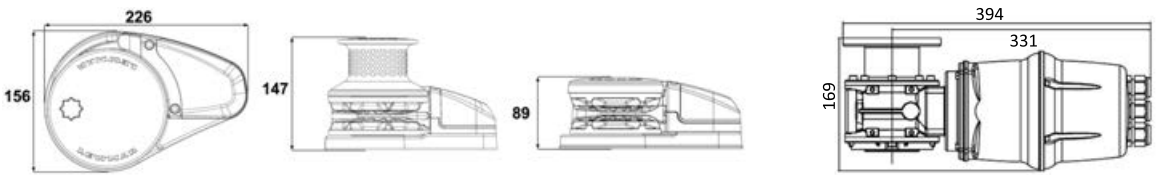
LEWMAR VX2 GD/GO windlass kit, 700W

IP67

- Stainless steel construction and composite details.
- Certified sturdy hybrid gypsy, **very silent, lightweight** and suitable for rope/chain.
- **Fitted with magnet and chain counter sensor.**
- Manual clutch release.
- Same footprint as V2 model.
- Robust worm wheel gearbox.
- **IP67** certified motor gearbox.
- Solenoid included.
- Easy to adjust and install.
- Gypsy Drum version available.

Model	Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats
	max	continuous	max	continuous			
VX 2 - 12V GD/GO	850	212	29	7	120	90	9 to 13 m

Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		kg
		V	W	chain Ø mm	rope Ø mm	
02.593.06	GO	12	700	7	12-16	13.9
02.593.08	GO	12	700	8	12-16	13.9
02.594.06	GD	12	700	7	12-16	14.9
02.594.08	GD	12	700	8	12-16	14.9



LEWMAR VX2 GD/GO windlass kit, 1000W

LEWMAR

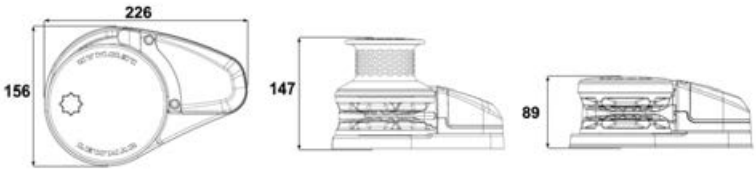
IP67

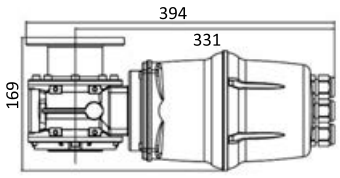
- Stainless steel construction and composite details.
- Certified sturdy hybrid gypsy, **very silent, lightweight** and suitable for rope/chain.
- **Fitted with magnet and chain counter sensor.**
- Manual clutch release.
- Same footprint as V2/3 model.
- Robust worm wheel gearbox.
- **IP67** certified motor gearbox.
- Solenoid included.
- Easy to adjust and install.
- Gypsy Drum version available.

Model	Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats
	max	continuous	max	continuous			
VX2+ - 12V GD/GO	1025	256	39	10	131	110	9 to 13 m
VX2+ - 24V GD/GO	1025	256	39	10	74	90	9 to 13 m

Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		kg
		V	W	chain Ø mm	rope Ø mm	
02.595.08	GO	12	1000	8	12-16	16.1
02.595.10	GO	12	1000	10	12-16	16.1
02.596.08	GD	12	1000	8	12-16	17.1
02.596.10	GD	12	1000	10	12-16	17.1
02.597.08	GO	24	1000	8	12-16	16.1
02.597.10	GO	24	1000	10	12-16	16.1
02.598.08	GD	24	1000	8	12-16	17.1
02.598.10	GD	24	1000	10	12-16	17.1

02.596.xx - 02.598.xx





LEWMAR VX3 GD/GO windlass, 1500W

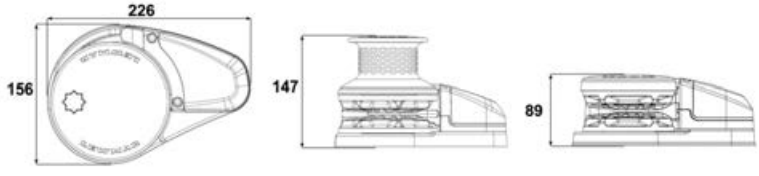
LEWMAR

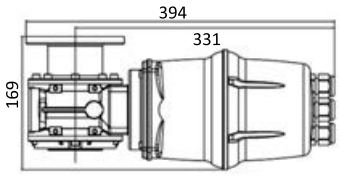
IP67

- Stainless steel construction and composite details.
- Certified sturdy hybrid gypsy, **very silent, lightweight** and suitable for rope/chain.
- **Fitted with magnet and chain counter sensor.**
- Manual clutch release.
- Same footprint as V2/3 model.
- Robust worm wheel gearbox.
- **IP67** certified motor gearbox.
- Solenoid included.
- Easy to adjust and install.
- Gypsy Drum version available.

Model	Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats
	max	continuous	max	continuous			
VX3 GD/GO 12V	1175	294	40	11	132	110	12 to 14 m
VX3 GD/GO 24V	1175	294	40	11	70	90	12 to 14 m

Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		kg
		V	W	chain Ø mm	rope Ø mm	
02.599.08	GO	12	1500	8	12-16	16.1
02.599.10	GO	12	1500	10	12-16	16.1
02.600.08	GD	12	1500	8	12-16	17.1
02.600.10	GD	12	1500	10	12-16	17.1
02.601.08	GO	24	1500	8	12-16	16.1
02.601.10	GO	24	1500	10	12-16	16.1
02.602.08	GD	24	1500	8	12-16	17.1
02.602.10	GD	24	1500	10	12-16	17.1





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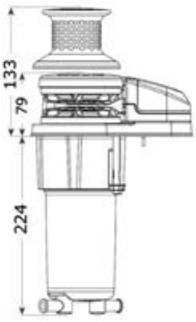
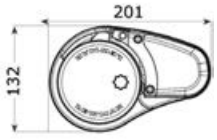




LEWMAR VX1 GD/GO windlass kit, 700W

IP67

Same features of the VX range, it frees below deck storage space.
Fitted with efficient in-line motor and robust worm wheel gearbox.

2 models available as gypsy: 6/7mm and 8mm.
Motor range 500 and 800W, IP67 cover.

- Pre-installed magnet and chain counter sensor.
- Solenoid included.
- Manual clutch release.
- Stainless steel and composite construction.

Windlass with deck unit, motor, solenoid and gypsy	Version	Motor		Gypsy		Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats	kg
		V	W	chain Ø mm	line Ø mm	max	continuous	max	continuous				
02.603.06	GO	12	500	6-7	12-16	650	160	20	5	75	70	6 to 9 m	8.5
02.604.06	GO	12	800	6-7	12-16	920	230	21	5	105	90	9 to 13 m	8.5
02.604.08	GO	12	800	8	12-16	920	230	21	5	105	90	9 to 13 m	8.5
02.610.08	GD	12	800	8	12-16	920	230	21	5	105	90	9 to 13 m	8.5

Spare parts series VX,VXL,HX

Code	Description
02.590.07	12V watertight remote control switch
02.590.08	Lewmar toggle switch with protection
02.590.96	VX1/VX1L 6/7mm gypsy
02.590.98	VX1/VX1L 8mm gypsy
02.593.80	VX2/3 10mm gypsy kit, DIN766
02.593.90	VX2/3 10mm gypsy kit, ISO
02.593.96	VX2/3 7mm gypsy kit
02.593.98	VX2/3 8mm gypsy kit

► LEWMAR V-Series stainless steel windlasses

Windlasses for pleasure boating made with a **precision-cast stainless steel** deck unit. Modern look and excellent quality material.

LEWMAR

◢ Fall Safe

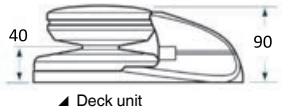
LEWMAR V1 GO windlass, 700W

AISI 316
- Rope/chain gypsy.
- AISI316 stainless steel deck unit.

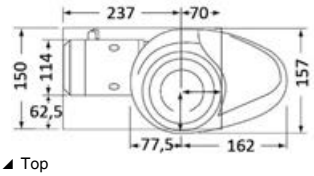
FAST FIT
- FastFit: new patented motor mounting option for quicker installation.
- Fall Safe anchor lock.

FALL SAFE
- Modern design.
- Sold in pack including switch, solenoid, circuit breaker and clutch release lever.
- Ready to fit chain counter sensor.

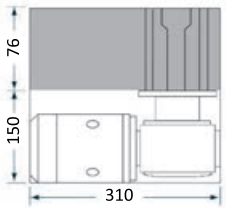
Code	Motor		Gypsy		Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	chain Ø mm	rope Ø mm	max	continuos	max	continuos				
02.535.06	12	700	6	12-14	454	113	19	13	80	90	7 to 12 m	16.5
02.535.08	12	700	8	12-16	454	113	19	13	80	90	7 to 12 m	16.5



◢ Deck unit



◢ Top



◢ Engine and reducer unit

LEWMAR V2 GD/GO windlass, 700W

AISI 316
- Rope/chain gypsy.
- AISI316 stainless steel deck unit.

PATENT
- FastFit: new patented motor mounting option for quicker installation.
- Modern design.
- Fall Safe anchor lock.

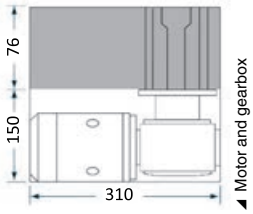
FAST FIT
- Ready to fit chain counter sensor.

V2 GO

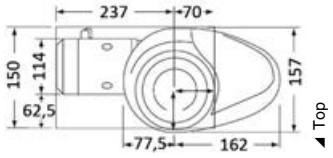
V2 GD

Model	Pull kg		Line speed m/min		For boats	Current draw A	Recommended circuit breaker A
	max	continuous	max	continuous			
V2GD/GO 12 volt	650	163	21	14	from 9 to 13 m	80	90

Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		Single parts			
		V	W	chain Ø mm	rope Ø mm	Only deck unit	Only motor/gearbox	Only solenoid	Only gypsy
02.550.06	GO	12	700	6	12-14	**02.511.01**	**02.515.12**	**02.590.01**	**02.519.06**
02.550.08	GO	12	700	8	12-16	**02.511.01**	**02.515.12**	**02.590.01**	**02.519.08**
02.551.06	GD	12	700	6	12-14	**02.511.02**	**02.515.12**	**02.590.01**	**02.519.06**
02.551.08	GD	12	700	8	12-16	**02.511.02**	**02.515.12**	**02.590.01**	**02.519.08**



Motor and gearbox



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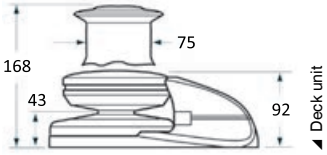
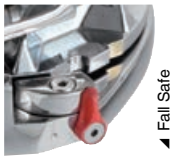


Deck unit


Fall Safe

LEWMAR V3 GD/GO windlass, 1000W

AISI 316
- Rope/chain gypsy.
- AISI316 stainless steel deck unit.

PATENT
- FastFit: new patented motor mounting option for quicker installation.
- Fall Safe anchor lock.
- Modern design.

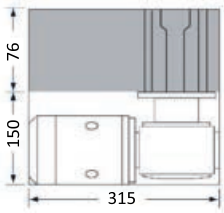
FAST FIT
- Ready to fit chain counter sensor.

V3 GO

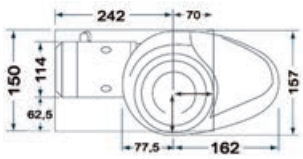
V3 GD

Model	Pull kg		Line speed m/min		For boats	Current draw A	Recommended circuit breaker A
	max	continuous	max	continuous			
V3 GD/GO 12 volt	890	223	28	18	from 12 to 16 m	85	110
V3 GD/GO 24 volt	1020	223	30	20	from 12 to 16 m	60	90

Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		Single parts			
		V	W	chain Ø mm	rope Ø mm	Only deck unit	Only motor/gearbox	Only solenoid	Only gypsy
02.553.08	GO	12	1000	8	12-16	**02.511.01**	**02.516.12**	**02.590.01**	**02.519.08**
02.553.10	GO	12	1000	10	12-16	**02.511.01**	**02.516.12**	**02.590.01**	**02.519.10**
02.554.08	GD	12	1000	8	12-16	**02.511.02**	**02.516.12**	**02.590.01**	**02.519.08**
02.554.10	GD	12	1000	10	12-16	**02.511.02**	**02.516.12**	**02.590.01**	**02.519.10**
02.555.08	GO	24	1000	8	12-16	**02.511.01**	**02.516.24**	**02.590.02**	**02.519.08**
02.555.10	GO	24	1000	10	12-16	**02.511.01**	**02.516.24**	**02.590.02**	**02.519.10**
02.556.08	GD	24	1000	8	12-16	**02.511.02**	**02.516.24**	**02.590.02**	**02.519.08**
02.556.10	GD	24	1000	10	12-16	**02.511.02**	**02.516.24**	**02.590.02**	**02.519.10**



Motor and gearbox



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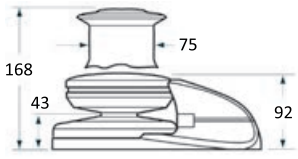


Cover

Fall safe

LEWMAR

▲ V4 GO

▲ V4 GD

LEWMAR V4 GD/GO windlass, 1600W and 2000W

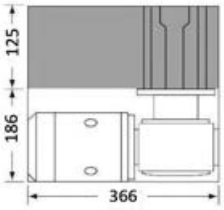
AISI 316

PATENT

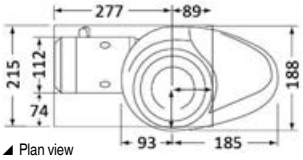
- Rope/chain gypsy.
- AISI316 stainless steel deck unit.
- Modern design.
- Ready to fit chain counter sensor.

Model	Pull kg		Line speed m/min		For boats	Current draw A	Recommended circuit breaker A
	max	continuous	max	continuous			
V4 GD/GO 12 volt	1250	313	25	15	13 to 16 m	125	150
V4 GD/GO 24 volt	1500	375	27	16	13 to 16 m	70	110

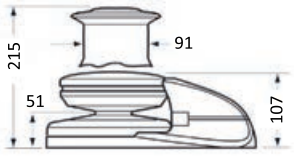
Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		Single parts			
		V	W	chain Ø mm	rope Ø mm	Only deck unit	Only motor/gearbox	Only solenoid	Only gypsy
02.557.08	GO	12	1600	8	12-14	**02.522.01**	**02.525.12**	**02.590.03**	**02.529.08**
02.557.10	GO	12	1600	10	16	**02.522.01**	**02.525.12**	**02.590.03**	**02.529.10**
02.558.08	GD	12	1600	8	12-14	**02.522.02**	**02.525.12**	**02.590.03**	**02.529.08**
02.558.10	GD	12	1600	10	16	**02.522.02**	**02.525.12**	**02.590.03**	**02.529.10**
02.560.08	GO	24	2000	8	12-14	**02.522.01**	**02.525.24**	**02.590.04**	**02.529.08**
02.560.10	GO	24	2000	10	16	**02.522.01**	**02.525.24**	**02.590.04**	**02.529.10**
02.561.08	GD	24	2000	8	12-14	**02.522.02**	**02.525.24**	**02.590.04**	**02.529.08**
02.561.10	GD	24	2000	10	16	**02.522.02**	**02.525.24**	**02.590.04**	**02.529.10**



▲ Motor and gearbox unit



▲ Plan view



▲ Deck unit

LEWMAR

▲ V5 GO

▲ V5 GD

LEWMAR V5 GD/GO windlass, 2000W

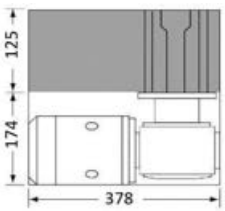
AISI 316

PATENT

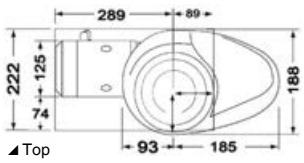
- Rope/chain gypsy.
- AISI316 stainless steel deck unit.
- Modern design.
- Ready to fit chain counter sensor.

Model	Pull kg		Line speed m/min		For boats	Current draw A	Recommended circuit breaker A
	max	continuous	max	continuous			
V5 GO/GD 24 volt	1600	400	29	18	15 to 18 m	60	110

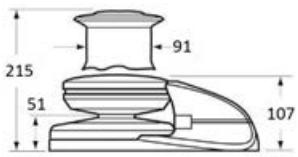
Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy		Single parts			
		V	W	chain Ø mm	rope Ø mm	Only deck unit	Only motor/gearbox	Only solenoid	Only gypsy
02.562.10	GO	24	2000	10	16	**02.522.01**	**02.526.24**	**02.590.02**	**02.529.10**
02.562.12	GO	24	2000	12	18-20	**02.522.01**	**02.526.24**	**02.590.02**	**02.529.12**
02.563.10	GD	24	2000	10	16	**02.522.02**	**02.526.24**	**02.590.02**	**02.529.10**
02.563.12	GD	24	2000	12	18-20	**02.522.02**	**02.526.24**	**02.590.02**	**02.529.12**



▲ Motor and gearbox



▲ Top



▲ Deck unit

LEWMAR V6 GD windlass, 2000W

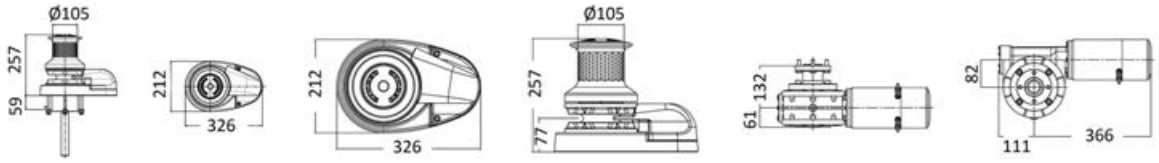
AISI 316

PATENT

- High-power worm gearbox.
- Modern design.
- AISI316 stainless steel deck unit.
- Ready to fit chain counter sensor.

Model	Pull kg		Line speed m/min		For boats	Current draw A	Recommended circuit breaker A
	max	continuous	max	continuous			
V6 GD 24 volt	1850	455	18	4,2	16 to 22 m	90	150

Windlass with deck unit, motor gearbox, solenoid and gypsy	Motor		Gypsy chain Ø mm	Single parts			
	V	W		Only deck unit	Only motor/gearbox	Only solenoid	Only gypsy
02.565.12	24	2000	12	**02.533.02**	**02.536.24**	**02.590.04**	**02.539.12**
02.565.14	24	2000	14	**02.533.02**	**02.536.24**	**02.590.04**	**02.539.14**



Lewmar VX Capstan - 800W

Stainless steel and composite construction. Extremely compact vertical motor for utmost space optimization. Time saving above deck (patented) installation requiring only one operator.
Solenoid included.

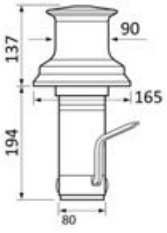
Code	Motor		Pull kg		Line speed m/min	Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	max	continuous					
02.609.12	12V	800W	920	230	21	58	70	8 to 14 m	7

LEWMAR C3 capstan, 1000W

AISI 316

PATENT

- All AISI316 stainless steel.
- WARP[tm] finish drum for optimized performance and reduced wear up to 30%.
- Above deck (patented) mounting for quick and simple installation, it requires only one operator.
- Vertical motor with anti-runback characteristics.
- Fitted with solenoid, foot switch and circuit breaker.



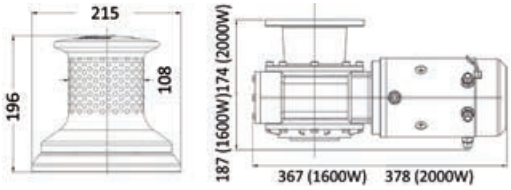
Code	Motor		Pull kg		Line speed m/min	Current draw A	Recommended circuit breaker A	For boats	kg
	V	W	max	continuous					
02.610.12	12	1000	750	188	12	65	70	10 to 16 m	12
02.610.24	24	1000	850	213	12	40	50	10 to 16 m	11.5

LEWMAR C4 and C5 capstans, 1600W and 2000W

AISI 316

PATENT

- All AISI316 stainless steel.
- WARP[tm] finish drum for optimized performance and reduced wear up to 30%.
- Motor with worm gearbox to reduce installation depth.
- Solenoid included.
- Gearbox-inherent anti-runback characteristics acting as mechanical brake.



Winch equipped with deck unit, motor gearbox, solenoid and gypsy	Model	Motor		Pull kg		Line speed m/min	Current draw A	Recommended circuit breaker A	Deck unit	Motor	Solenoid	kg	For boats
		V	W	max	continuous								
02.612.12	C4	12	1600	1250	313	25	125	150	**02.522.03**	**02.525.12**	**02.590.03**	25	da 16 a 20 m
02.612.24	C4	24	2000	1500	375	27	70	110	**02.522.03**	**02.525.24**	**02.590.04**	25	da 16 a 20 m
02.614.24	C5	24	2000	1600	400	29	75	110	**02.522.03**	**02.526.24**	**02.590.02**	27	da 20 a 26 m

LEWMAR

LEWMAR V8 GD windlass, 3500W and V8 hydraulic GD windlass

AISI 316 **PATENT**

- High-power worm gearbox.
- Modern design.
- AISI316 stainless steel deck unit.
- Ready to fit chain counter sensor.
- Dog clutch.
- Band brake.

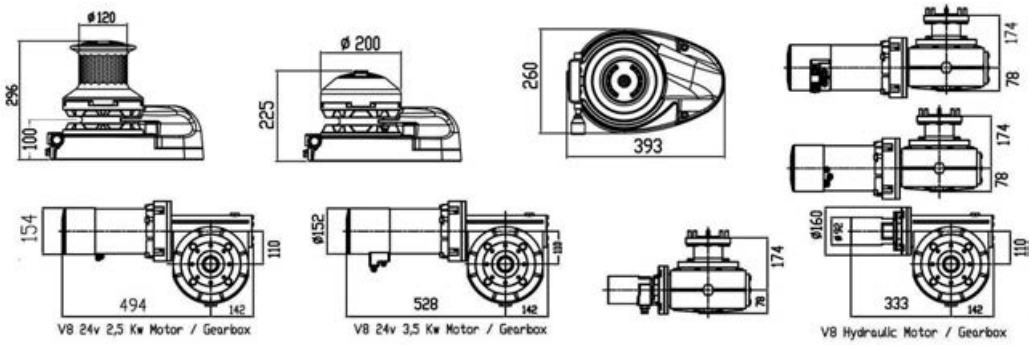
Model	Pull kg		Line speed m/min		Current draw A	Recommended circuit breaker A	For boats
	max	continuous	max	continuous			
V8 GD 24 volt	2750	682	23	7	200	250	21 to 31 m
V8 GD Hydraulic	2600	682	21	7.5	-	-	21 to 31 m

Windlass with deck unit, motor gearbox, solenoid and gypsy	Version	Motor		Gypsy chain Ø mm	Single parts				kg
		V	W		Only external deck	Only motor/gearbox	Only solenoid	Only gypsy	
02.567.12	GD	24	3500	12	**02.544.02**	**02.546.24**	**02.590.04**	**02.549.12**	103
02.567.14	GD	24	3500	14	**02.544.02**	**02.546.24**	**02.590.04**	**02.549.14**	103
02.567.16	GD	24	3500	16	**02.544.02**	**02.546.24**	**02.590.04**	**02.549.16**	103
02.569.12*	Hydraulic GD	-	Hydraulic	12	**02.544.02**	**02.546.88**	**-**	**02.549.12**	103
02.569.14*	Hydraulic GD	-	Hydraulic	14	**02.544.02**	**02.546.88**	**-**	**02.549.14**	103
02.569.16*	Hydraulic GD	-	Hydraulic	16	**02.544.02**	**02.546.88**	**-**	**02.549.16**	103

ON REQUEST: *version 3 ph 380 V; version 24V 2.5 Kw; right hand version with handwheel brake.*

For further technical details and configurations, please apply to our technical department.

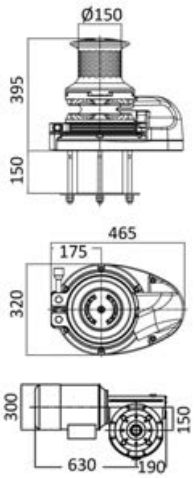
* *Available on request, only*



LEWMAR

LEWMAR V9 gypsy-drum windlass - ITEMS AVAILABLE ON REQUEST

◢ 02.575.88



- Modern design.
- AISI316 stainless steel deck unit.
- High-power worm gearbox.
- Gypsy trailed by mechanical clutch.
- Gypsy locking by means of brake-shoes.
- Fitted with chain counter sensor.
- Right and left rotation.

Windlass equipped with deck unit, motor and gypsy	Version	Motor		Gypsy chain Ø mm	Pull kg	Line speed m/min	For boats	kg
		V AC	kW					
02.575.14	RIGHT	400	4	14	3182	18	28 to 34 m	105
02.576.14	LEFT	400	4	14	3182	18	28 to 34 m	105
02.575.16	RIGHT	400	4	16	3182	18	28 to 34 m	105
02.576.16	LEFT	400	4	16	3182	18	28 to 34 m	105

02.575.88 *Wheel brake*

Other versions available: 208V AC motor; 14-16-17.5-19 gypsy hydraulic motor; wheel brake, round base and separate chain retrieving system.

For further technical details and configurations, please apply to our technical department.

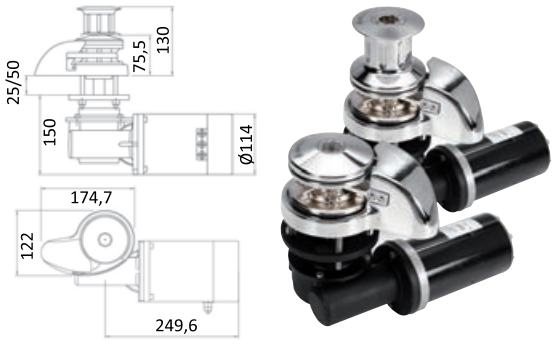
► ITALWINCH stainless steel windlasses

ITALWINCH Smart windlass

AISI 316

Polished AISI316 stainless steel body. It can use chain or rope/chain.
Built-in chain counter sensor. IP67 watertight motor.
For boats up to 10 m.

GD + gypsy	GO	Motor		Current draw A	Chain gypsy mm	Line Ø mm	Max pull kg	Working load kg	Line speed m/min	kg
		V	W							
02.401.31	**02.401.21**	12	500	60	6	12	650	90	23	8.5/9.5
02.401.33	**02.401.23**	12	700	90	6	12	750	100	25	8.5/9.5
02.401.34	**02.401.24**	12	700	90	8	12	750	100	25	8.5/9.5
02.401.35	**02.401.25**	12	1000	115	8	14	930	130	26	13/ 14.5

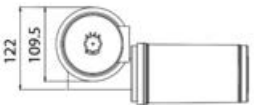


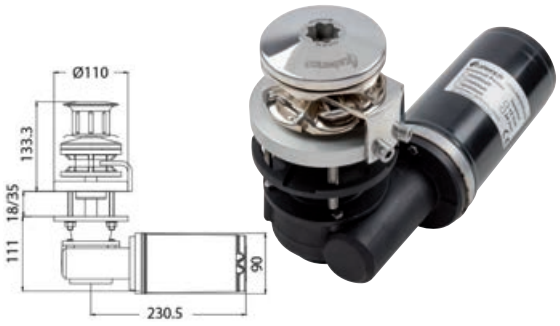
ITALWINCH Smart-R1 windlass

AISI 316

AISI316 stainless steel vertical windlass with aluminium round base.
Built-in chain counter sensor. IP67 watertight motor. For boats up to 10 m.

Round base without drum	Motor		Current draw A	Gypsy chain mm	Line	Max pull kg	Working load kg	Line speed m/min	kg
	V	W							
02.413.01	12	500	60	6	no	650	90	23	8
02.413.03	12	700	90	8	no	750	100	25	8.5





ITALWINCH Smart "V" windlass

AISI 316

Polished AISI316 stainless steel body.
Vertical windlass for easy installation. It uses chain or rope/chain.
Built-in chain counter sensor. IP67 watertight motor.
For boats up to 8 m.

GO	Motor		Current draw A	Chain gypsy mm	Line Ø mm	Max pull kg	Working load kg	Line speed m/min	kg
	V	W							
02.402.01	12	500	60	6	12	285	90	23	8/8.5
02.402.03	12	800	90	8	12	315	105	25	8/8.5

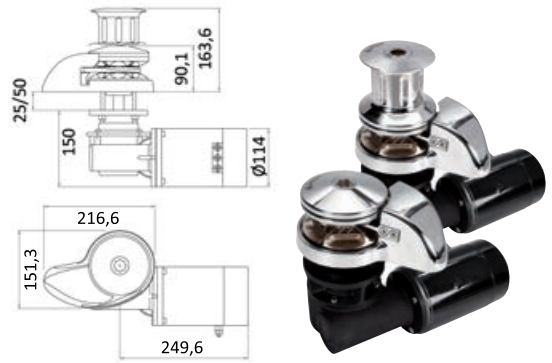
ITALWINCH Smart Plus windlass

AISI 316

Polished stainless steel body. It uses chain or rope/chain.
Built-in chain counter sensor. IP55 watertight motor. For boats up to 15 metres.

GD + gypsy	GO	Motor		Current draw A	Chain gypsy mm	Line Ø mm	Max pull kg	Working load kg	Line speed m/min	kg
		V	W							
02.404.42*	**02.404.32***	12	1000	115	8	14	420	140	23	15.5/16.5
02.404.44*	**02.404.34***	24	1000	60	8	14	420	140	23	15.5/16.5
02.404.46**	**02.404.36****	12	1500	130	10***	16	480	160	23	15.5/16.5
02.404.48**	**02.404.38****	24	1500	70	10***	16	480	160	23	15.5/16.5
02.404.50	**02.404.40**	24	1700	75	10***	16	720	240	25	19.5/20.5

* *6-mm gypsy available.*
** *8-mm gypsy available.*
*** *Chain gypsy ISO (10x30), also available with gypsy for DIN766 (10x28).*

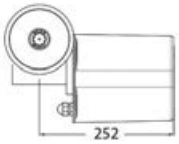


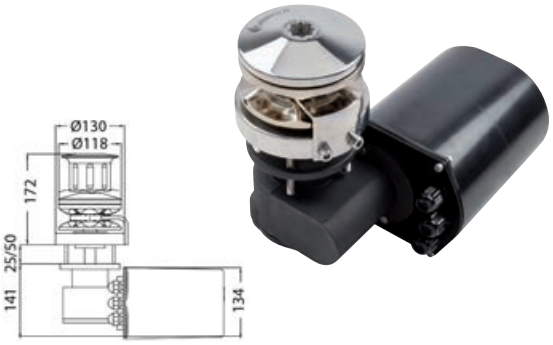
ITALWINCH Smart-R3 windlass

AISI 316

AISI316 stainless steel vertical windlass with round base.
Built-in chain counter sensor. IP67 watertight motor. For boats up to 16 m.

Round base without drum	Motor		Current draw A	Gypsy chain mm	Line	Max pull kg	Working load kg	Line speed m/min	kg
	V	W							
02.414.01	12	1000	115	8	No	930	130	25	17





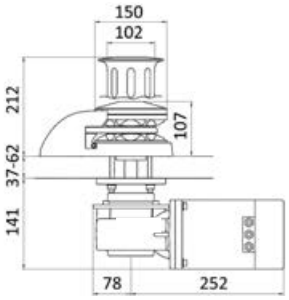
02.405.01/02/03

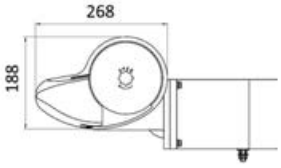
02.405.11/12

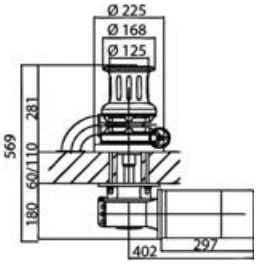
ITALWINCH Orchid windlass

100% AISI316 stainless steel vertical windlass.
Fitted with built-in chain counter sensor. Recommended for boats up to 20 m.
The version with 12-mm chain can also use a 18-mm rope.

GD + gypsy	GO	Motor		Averange current draw A	Gypsy chain mm	Line Ø mm	Max pull kg	Breaking load kg	Line speed m/min	kg
		V	W							
02.405.01	**02.405.11**	12	1700	138	10	-	1650	240	12	25/35-30/40
02.405.02	**02.405.12**	24	1700	75	10	-	1700	250	12	25/35-30/40
02.405.03	**-**	24	2000	N/A	12	18/19	1700	250	12	25/35-30/40







ITALWINCH STAR PLUS windlass

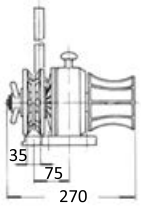
AISI316 stainless steel body. Fitted with nickel-plated bronze gypsy + drum.
For boats up to 26 metres long. Built-in chain counter sensor.

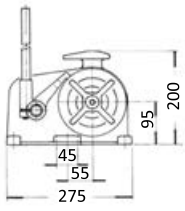
Code	Motor		Current draw A	Chain gypsy mm	Max pull kg	Working load kg	Line speed m/min	kg
	V	W						
02.406.14	24	2300	190	10	2000	900	12	80
02.406.15	24	2300	190	12	2000	900	12	80
02.406.16	24	2700	200	12	2200	1050	12	90

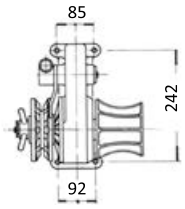
ITALWINCH GIGLIO manual windlass

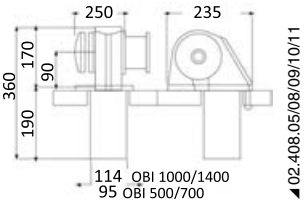
Anodised Aluminium body. Chromed bronze gypsy.

Code	Gypsy Ø mm	Working load kg	kg
02.407.01	6	300	10.2
02.407.02	8	300	10.2









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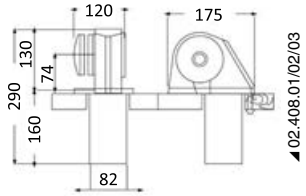


02.408.01/02/03

ITALWINCH OBI500/700 windlass (Gypsy Only) and OBI1000/1500 windlass (Gypsy Drum)

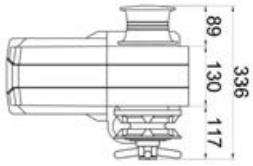
Anodized aluminium body. Chromed brass gypsy.
Built-in chain counter sensor and line tensioner.
Solenoid and friction release lever included.
10 mm ISO standard, for 10-mm DIN766 chain, please order gypsy.

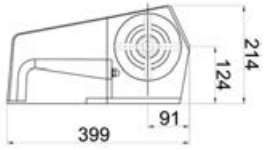
Code	Type	Motor		Current draw A	Chain gypsy mm	Max pull kg	Working load kg	kg
		V	W					
02.408.01	OBI500	12	500	60	6	270	90	8.2
02.408.02	OBI500	12	700	90	6	300	100	8.8
02.408.03	OBI500	12	700	90	8	300	100	8.8
02.408.05	OBI1000	12	1000	115	8	420	130	17.3
02.408.08	OBI1500	12	1500	130	8	450	150	17.6
02.408.09	OBI1500	12	1500	130	10*	450	150	17.6
02.408.10	OBI1500	24	1500	70	8	480	160	17.6
02.408.11	OBI1500	24	1500	70	10*	480	160	17.6

ITALWINCH DEVON windlass

Aluminium body with chromed brass gypsy and drum.

Code	Motor		Current draw A	Chain gypsy mm	Max pull kg	Working load kg	kg
	V	W					
02.409.01	12	1000	115	8	450	150	28
02.409.03	24	1000	60	8	480	150	28
02.409.04	12	1500	130	8	540	180	30
02.409.05	12	1500	130	10	540	180	30
02.409.06	24	1500	70	8	570	190	30
02.409.07	24	1500	70	10	570	190	30

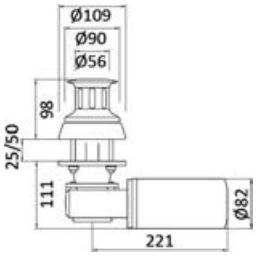




ITALWINCH PAROS LUX capstan

AISI 316 Polished stainless steel body. IP67 watertight motor.

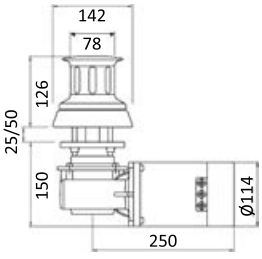
Code	Motor		Current draw A	Max pull kg	Working load kg	Line speed m/min	kg
	V	W					
02.411.11	12	500	60	270	90	23	8
02.411.12	12	700	90	300	100	25	8



ITALWINCH Nestor capstan

AISI 316 AISI316 stainless steel body. IP55 watertight motor.

Code	Motor		Current draw A	Max pull kg	Working load kg	Max line speed m/min	kg
	V	W					
02.412.11	12	1000	115	420	140	23	12.5
02.412.12	24	1000	60	420	140	23	12.5
02.412.13	24	1500	70	480	160	23	13

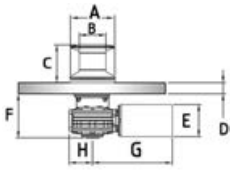


ITALWINCH HERON capstan

Stainless steel body. For. boats up to 18 metres long

Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
1700	156	100	148	30/70	114	150	330	80
2000	156	100	148	30/70	114	150	330	80

Code	Motor		Current draw A	Max pull kg	Working load kg	Line speed m/min	kg
	V	W					
02.412.04	24	1700	90	1700	240	26	23
02.412.06	24	2000	100	1750	270	12	24

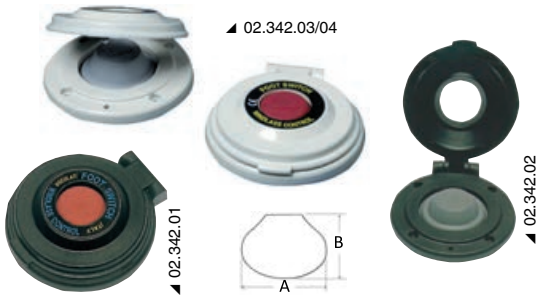


ITALWINCH NESTOR-V capstan

AISI 316 AISI316 stainless steel body. IP67 watertight motor.

Code	Motor		Current draw A	Max pull kg	Work load kg	Max line speed m/min	kg
	volt	watt					
02.412.20	12	800	90	300	100	25	10.5
02.412.21	24	800	50	300	100	25	10.5

► Windlass accessories



Footswitches for windlass electric control

It activates all the solenoids sold in our catalogue.
Fully watertight, it enables solenoid installation in a position sheltered from humidity.

Code	Button color	Body color	AxB mm
02.342.01	Red	Black	76x83
02.342.02	Grey	Black	76x83
02.342.03	Red	White	76x83
02.342.04	Grey	White	76x83

OSCULATI

Footswitch for windlass electric control with stainless steel cover

AISI 316

It activates all the solenoids sold in our catalogue.
Watertight, it enables solenoid installation in a position sheltered from humidity.
Upper part made of **mirror-polished AISI316 stainless steel**.

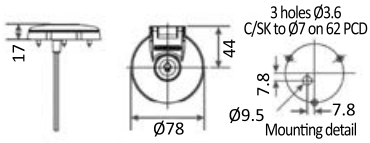
Code	Button colour	AxB mm
02.344.01	Red	76x83
02.344.02	Black	76x83

LEWMAR

LEWMAR footswitch for windlass electric control

Made of reinforced plastic, fully watertight, suitable for deck mounting.
Fitted with cover. Very compact size.

Code	For windlasses	Outer Ø mm	Bore Ø mm mm
02.343.02	All Lewmar models	78	9.5



OSCULATI

Hand-held controller for electric windlasses

It enables the windlass to haul in or pay out.

It can be mounted near the helm or wherever is more convenient.

It includes **socket for assembling or disassembling on the deck**.

Code	Version	V
02.339.00	Universal	12/24

LEWMAR

LEWMAR hand-held up/down controller

Fitted with spiral cord extensible to up 3 m.
With IP67 watertight plug/socket.

Code	Version
02.357.01	Ergonomic
02.357.05	Compact

Universal chaincounter pushbutton panel

02.350.01 Feeding voltage: 10…30VDC.
Protection degree: IP67.
Backlit monochrome LCD display.
Warping activation mode.
Display indications in 5 languages.
Automatic pay-out function to the desired length.
Haul-in alarm function.
Pushbutton panel lock function to prevent unwanted activation.
Chain speed display.
Feeding voltage display.
Dimensions: 170x80x50 mm.

Universal chain counter radio control

02.368.01 Receiver feeding voltage: 10…30VDC
Internal rechargeable battery with wireless recharge (charger included)
Protection degree: IP67
Backlit monochrome LCD display
Radio transmission @ 868 MHz
Warping activation mode
Display indications in 5 languages
Automatic pay-out function to the desired length.
Haul-in alarm function
Keyboard lock function to prevent unwanted activation
Chain speed display
Feeding voltage display
Dimensions: 170x80x50 mm.

New MZ ELECTRONIC Evolution hand-held controller

It controls any windlass or gangway. Fully watertight. Fitted with **watertight deck plug**.
Available with 2, 3 or 4 channels.

Code	⟷ mm	Version	V	Channels
02.352.12	144x52x24	Universal	12/24	2
02.352.13	144x52x24	Universal	12/24	3
02.352.04	144x52x24	Universal	12/24	4

MZ ELECTRONIC wireless controller

The kit includes a controller and a central unit (pre-combined) and can support up to 8 different controls (sold separately). Both the 3- and 5-button models can be easily retrofitted to existing windlasses and bow thrusters. Fitted with a replaceable battery, they floating and watertight up to 1 metre deep (IP67). 40-m average range.
Version A) - It allows wireless remote operation (up/down) of any solenoid-operated windlass;
- it includes a controller and a receiver.
Version B) - it allows wireless operation of any bow thruster (port and starboard thrust) and of any solenoid-operated windlass (up/down). It includes a controller and a central unit for windlasses and bow thrusters.

Code	Description	Version	Spare radio remote control
02.366.00	Kit for windlass with 3-button controller and central unit	A	**02.366.10**
02.366.01	Kit for windlass and boat thruster with 5-button controller and central unit	B	**02.366.11**

02.366.01 - 02.366.00

MZ ELECTRONIC Kompass-8 radio controller (transmitter + receiver)

It control up to 8 transmission channels and operates 2 windlasses and 2 thrusters.
The shortcut key activates the 2 thrusters at a time.
IP67 floating push-button panel.

Code	Description	Frequency	⟷ mm
02.364.00	8-channel controller	868 Mhz / 913 Mhz	60x30x145 (h)

Radio control with fixed panel and central unit for gangplanks

02.369.00 The radio control manages 4 relays or electrovalves as well as the 4-way oil pump relay of the hydraulic gangplank central unit.
The electrovalves connected to the radio control can be operated by either a 868Mhz 4-channel radio control or a wired remote control (both included in the KIT).
The watertight plastic material central unit is pre-cabled for connection to the hydraulic central unit.
Fitted with microprocessor control, it has LED lights that show the activation of controls and radio functions. The product comes with standard caps for the electrovalves.

MZ ELECTRONIC recess fit chain counter

It can be retrofitted to any existing chain haul-in/pay-out control.

Code	Ø mm	Max size m	Version	V
02.361.00	52	99.9	Universal	12/24

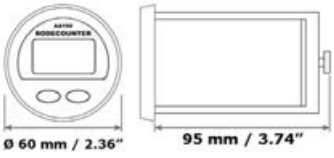
Magnetic sensor to be ordered separately.

LEWMAR

LEWMAR chain counter with alarm

The docking alarm sounds when the anchor is close to docking.
It works with rope/chain or all-chain rode. Plug and Play cables. It installs up to 2 units.
It includes: 1 10x8-mm magnet and motor sensor for rope/chain installations.

Code	outer Ø mm	V
02.357.04	60	12/24



MZ ELECTRONIC universal controller panel + chain counter

Fitted with LCD and backlit buttons, 100x100-mm size.
It displays: chain length hauled in or paid out; chain speed; voltage; motor current draw; docking alarm; windlass working hours.

Code	Version
02.356.03	Cable connections to the windlass
02.356.01	RADIO, no cables

02.355.00 *Magnetic sensor to be ordered separately.*

MZ ELECTRONIC simplified chain counter display

To be used in combination with other haul-in/pay-out controls (02.315.30 or 14.192.03 + 14.193.14 or similar units).

Code	⟷ mm
02.356.04	65x65

02.355.00 *Magnetic sensor to be ordered separately.*

Magnet kit to fit to the windlass gypsy

In case the windlass is not fitted with magnet.

Code	To be paired with chain counters
02.355.00	**02.356.01/03/04 - 02.361.00**

LEWMAR up/down push-button controller and chain counter featuring advanced functions

LEWMAR

LCD, backlit keys, it shows the length of rope/chain deployed and the chain speed.
It can be customized with several alarms and functions such as:
- Safety lock prevents unwanted operation.
- Pre-set stopping point and docking alarm when the anchor is close to docking.
- One Touch function deploys and retrieves a preset length of anchor rode slowing down speed when the anchor is close to docking.
- Use with DC, AC and hydraulic systems.
- Operates in parallel with two other on-off systems such as thrusters, bow rollers, gangplanks, bimini tops, etc. (02.357.02 only).

Code	Description
02.357.02	Wireless panel-mount chain counter
02.357.03	Bridge control (140 x 130 mm)

Windlass circuit breaker kit

Fitted with a spring ON-OFF-ON switch, a watertight **rubber** cap + a circular Windlass Control Up-Down plate.

Code	It matches
02.315.30	02.456.12

Windlass control panel with spring release

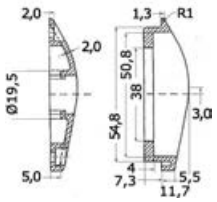
It includes a rubber coated watertight Up/Down switch with spring release, a safety fuse holder and **two LED warning lights**.

Code	⟷ mm	Fuse
02.341.00	80x60	6x32 (glass)

⚠ *It does not control the windlass directly; to be connected to a solenoid.*

Windlass control panel with toggle switch

Waterproof toggle switch with double UP-DOWN control LED light.



Code	⟷ mm	Fuse
02.341.20	75x62	6x32 (glass)

⚠ *It does not control the windlass directly; to be connected to a solenoid.*

Foot-operated controller with solenoid

It includes **rubber** pedal and **mirror-polished stainless steel** watertight ring nut.

◢ 02.341.00

Pedal color		V	W	It works with			Spare grommet+ ring nut	
black	red			electronic pedals	manual controls	panel controls	black	red
02.338.00NE	**02.338.00RO**	12	2000	**02.342.01; 02.342.02; 02.342.03; 02.342.04**	**02.339.00**	**02.341.00**	**02.338.02NE**	**02.338.02RO**
02.338.01NE	**02.338.01RO**	24	2000	**02.342.01; 02.342.02; 02.342.03; 02.342.04**	**02.339.00**	**02.341.00**	**02.338.02NE**	**02.338.02RO**

Solenoid for winch

For foot-operated mechanical control.

◢ 02.341.00

Code	Max power	It works with		
		electronic pedals	manual controls	panel controls
02.456.12	1000 W, at 12 V	**02.342.01; 02.342.02; 02.342.03; 02.342.04**	**02.339.00**	**02.341.00**

MZ ELECTRONIC Control Box - contactors/inverters

Power units for windlass control with 3- or 4-cable or permanent magnet motors. Fully watertight (IP56). It matches any foot, manual or portable control.

Code	V	For motors max W	For motors with No of poles	⟷ mm	Corresponding item		
					LEWMAR	QUICK	MZ ELECTRONIC
02.316.01	12	500	2/4	114x52x88	68000320	T6415-12	MZ2090/L
02.316.02	12	1000/1500	2/4	148x60x95	68000320	T6415-12	MZ2130/H
02.316.03	24	500/1500	2/4	148x60x95	68000321	-	MZ2130/I
02.316.06	12	1500/4000	2/4	148x70x120	-	T6415-12	MZIC20133
02.316.07	24	1500/3000	2/4	148x70x120	-	T6415-24	MZIC20134
02.316.05	24	3000/3500	2/4	160x100x150	68000321	T6415-24	MZIC20123
02.317.01	12	500	3	114x52x88	68000937	T6315-12	MZ2100/M
02.317.02	12	1000/1500	3	148x60x95	68000937/68000318	T6315-12	MZ2150/C
02.317.03	24	500/1400	3	148x60x95	68000938/68000319	T6315-24	MZ2150/D
02.317.04	12	1700/2300	3	130x70x120	68000318	T6315-12	MZ2150PA/C
02.316.04	24	1500/2300	3	148x60x95	68000319	T6315-24	MZ2150PA/D

◢ 02.316.01/02/03/06/07

◢ 02.316.04

◢ 02.316.05

◢ 02.317.01/02/03/04

OSCULATI

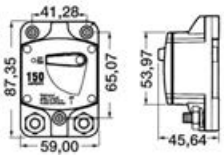
Windlass or bow thruster control panel with safety switch

Airpax toggle switch version - A magnetohydric safety switch cuts the power supply in case of accidental overload. Essential for safeguarding the motor. It stands a load of 200% for 10 seconds. Fitted with red warning light.

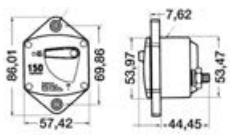
Code	A	Panel mm	Recommended for windlasses W	
			12V	24V
02.340.00	100	80x60	700/1200	1000/2000
02.340.01	50	80x60	400/500	700/1000

◢ 02.701.10/20/40/41/50

◢ 02.700.10/20/40/41/50



◢ 02.701.10/20/40/41/50



◢ 02.700.10/20/40/41/50

Watertight thermal circuit breaker for windlasses and bow thrusters, fitted with 5/16" electrical terminals

Resettable and releasable by means of a dedicated lever. It works as a fuse and a circuit breaker at a time. Manufactured in compliance with the USA SAEJ1171 and CE 28846 "Vapor Proof" standards, 3000-cycle operating capacity.
The new oversized version has 5/16" electrical terminals (instead of 1/4") for easier cable connections. The recess fit model only requires a **round** bore for installation.

Version		Max load	Motor	
Panel mount	Surface mount		12 V	24 V
02.700.50	**02.701.50**	50 A	Up to 500 W	700 W
02.700.10	**02.701.10**	70 A	Up to 700 W	1500 W
02.700.20	**02.701.20**	100 A	Up to 1200 W	2000 W
02.700.40	**02.701.40**	150 A	Up to 1500 W	3500 W
02.700.41	**02.701.41**	200 A	Up to 2000 W	4000 W

*The 100/150/200 A version can also be used as **main battery switch**.*

◢ 02.750.xx

◢ Approval

◢ 02.750.00

◢ 02.751.xx

Watertight thermal circuit breaker for windlasses and bow thrusters

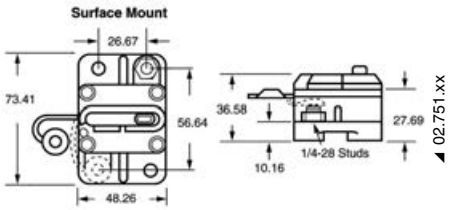
Resettable and releasable by means of a dedicated lever. It works as a fuse and a circuit breaker at a time. Manufactured in compliance with the USA SAE J1171 / SAE J1625 standards.
Allowed voltage: max 42 volt, -32° + 82° operating temperature.
Pin diameter: 6 mm. **With 1/4" electric terminals.**

Max load	Panel mount	Surface mount
60 A	**02.750.60**	**02.751.60**
80 A	**02.750.80**	**02.751.80**
120 A	**02.750.12**	**02.751.12**
150 A	**02.750.15**	**02.751.15**
200 A	**02.750.20**	**02.751.20**

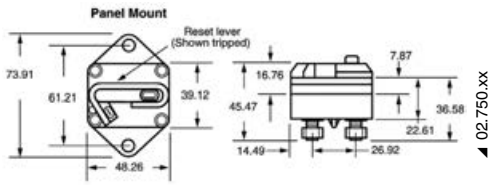
02.750.00 *Rubber seal for series 02.750.xx*

◢ 02.750.xx

◢ 02.751.xx



◢ 02.751.xx



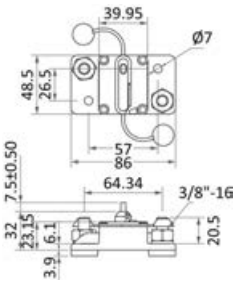
◢ 02.750.xx

New Watertight circuit breaker for winch, bow propeller and gangway

HEAVY DUTY

Resettable, it can be released by means of a special lever. It is both a fuse and a switch. Made in compliance with the USA SAE J1171 / SAE J1625 standards. Voltage allowed: max 48 V, operating temperature: -32° + 92°.
3/8" electric terminals.

Code	Max. load
02.752.50	50 A
02.752.70	70 A
02.752.10	100 A
02.752.15	150 A
02.752.20	200 A
02.752.25	250 A

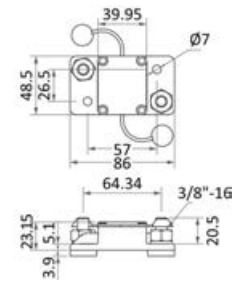


New Watertight circuit breaker for winch, bow propeller and gangway

HEAVY DUTY

Automatic resetting version. Made in compliance with the SAE J1625 / SAE 1171 standards. Operating temperature: -32° + 92°. **3/8" electric terminals.**

Code	Max. load
02.753.60	60 A
02.753.80	80 A
02.753.12	120 A
02.753.15	150 A
02.753.20	200 A
02.753.25	250 A



Anchor Lube oil for windlasses

Lubricant with a 220 ISO viscosity grade. Designed for windlasses of any brand.

Code	Package
02.294.00	1 l

Rope/chain sets for windlasses

Made with 3-strand white rope and **stainless steel chain link** for connection to the windlass chain.

Code	Ø mm	Length m	Gypsy Ø mm	Chain link Ø mm	For windlasses
02.636.01	10	35	6	6	Manual mooring, Lofrans: Project x1; Italwinch 02.407.01
02.636.02	12	35	6	6	Lewmar: Pro-series 1000, V-700, V1, V2 Lofrans: Project x1, Dorado 500W, Marlin; Lewmar CPX0; Italwinch Ray; Italwinch RayLux
02.834.00	14	35	8-10	8	Lewmar: Pro-series 1000, V1, V2, V3, V4 Lofrans: Project x1-x2-x3, Project 1000-1500, Dorado 700W, Clipper 700-1000; Italwinch Thunder, Italwinch ThunderLux
02.636.05	16	40	10	10	Lewmar: Pro-series 1000, V3, V4,V5 Lofrans: Project x2-x3, Project 1000-1500, Clipper 1000; Italwinch Thunder Lux Ø 16

LEWMAR clutch lever for windlasses

Universal for any Lewmar windlass. Aluminium casting coated in black.

Code	Description
02.531.90	Dual clutch lever: universal + V700.

LEWMAR

LEWMAR spare anodes for thrusters

The kit includes a self-locking nut for thrusters.

Code	For thruster	
02.047.01	02.052.01; 02.042.30	(140 TT)
02.047.03	02.052.04; 02.052.06; 02.042.07; 02.042.09; 02.052.10	(185 TT)
02.047.12	02.042.12	(250 and 300TT) - 2 pcs.

LEWMAR spare propeller for thrusters

Made of composite material.

Code	For thrusters	
02.048.01	02.052.01; 02.042.30	(140TT)
02.048.03	02.052.04; 02.052.06; 02.042.07; 02.042.09; 02.052.10	(185TT)

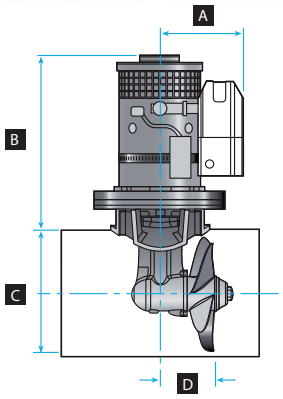
► LEWMAR TT thruster series bow thrusters

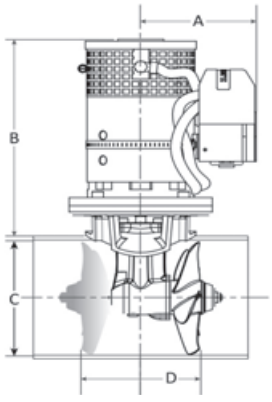
Sealed foot to avoid top-ups. No **oil reservoir** to install.
High-quality motors designed to last long. **5-blade propeller,** for minimum noise and vibrations, gives **equal thrust in both directions.**
Hardened and ground spiral bevel gear for maximum efficiency and quiet power transmission.

LEWMAR

CODE	MODEL	A mm	B mm	C mm	D mm
02.042.29*	110TT1.5	123	208	110	64
02.042.30*	140TT2.0	123	213	140	71
02.052.01	140TT2.2	123	235	140	71
02.052.03/04/31	185TT3.0	148	293	185	83

CODE	MODEL	A mm	B mm	C mm	D mm
02.052.06/07	185TT5.0	162	315	185	83
02.052.09/10	185TT6.0	161	343	185	83
02.052.12	250TT8.0	165	422	250	256
02.052.14	300TT10.8	203	450	300	320





* Thruster Black Generation

LEWMAR thruster package

It comes with the following accessories required for installation: - Bow thruster. - Control panel - Connecting cable - Fuse box - Fuse - Fibreglass tunnel.

Code	Model	Tunnel Ø mm	Tunnel Length mm	Motor V	Motor kW/HP	No of propellers	Thrust kgF	Cable m	Control	For boats	kg
02.042.29	110TT1.5	110	750	12	1.5/2	1	28	7	Joystick	up to 9 m	10
02.052.25	125TT2.0	125	750	12	2/2.7	1	35	7	Joystick	6-9 m	12
02.042.30	140TT2.0	140	750	12	2/2.7	1	37	7	Joystick	6-9 m	13
02.052.31	185TT3.0	185	1000	12	3/4	1	58	10	Joypad	9-12 m	19.6

LEWMAR Black Generation electric thrusters

Lewmar engine unit.
To be fitted with tunnel and control accessories for installation on dedicated configurations.

Code	Model	For tunnel Ø mm	Motor V	Motor kW/HP	No of propellers	Thrust kgF	For boats m	kg
02.042.12	250TT8,0	250	24	8.0/10.7	2*	160	18-21	46.4

Counter-rotating thrusters
Special price, while stock is available.

LEWMAR fiberglass thruster tunnel

125-mm Ø	140-mm Ø	185-mm Ø	250-mm Ø	300-mm Ø	Length mm
02.044.00	**02.044.01**	-	-	-	750
-	**02.044.02**	**02.044.05**	**02.044.09**	-	1000
-	-	**02.044.06**	**02.044.10**	**02.044.13**	1500
-	-	**02.044.07**	**02.044.11**	**02.044.14**	2000

LEWMAR Blue Generation electric thrusters

Lewmar engine unit with Blue Generation control box.
To be fitted with tunnel and control accessories for installation on dedicated configuration.

Code	Model	Tunnel Ø mm	Motor		No of propellers	Thrust kgF	For hulls m	kg
			V	kW/HP				
02.052.00	125TT2,0	125	12	2/2.7	1	35	6-9	12
02.052.01	140TT2,2	140	12	2.2/3.0	1	42	7-10	13
02.052.03	185TT3,0	185	12	3.0/4.0	1	58	9-12	19.6
02.052.04	185TT3,0	185	24	3.0/4.0	1	58	9-12	19.2
02.052.06	185TT5.0	185	12	5.0/6.7	1	82	12-15	27
02.052.07	185TT5.0	185	24	5.0/6.7	1	82	12-15	27
02.052.09	185TT6,0	185	12	6.0/8.0	1	97	15-18	28.2
02.052.10	185TT6,0	185	24	6.0/8.0	1	97	15-18	27.4
02.052.12	250TT8,0	250	24	8.0/10.8	2*	140	18-21	46.4
02.052.14	300TT10,8	300	24	10.8/14.5	2*	250	21-24	63

* *Counter-rotating thrusters*

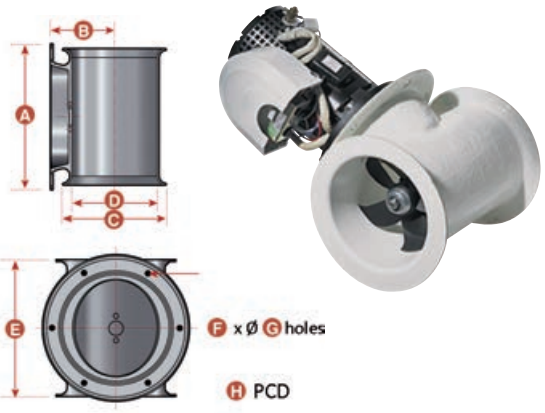
LEWMAR stern thrusters kit

For installation on the upper stern to gain control of the boat with maximum ease, even in confined spaces. Combined with a thruster it shifts the boat sideways.

Size of stern thruster

Kit	Bow thruster	A mm	B mm	C mm	D mm	E	F mm	G mm	H mm
02.043.01 to be installed with	**02.052.01**	240	105	170	140	225	6	8.5	206
02.043.02 to be installed with	**02.052.03;02.052.04;02.052.06; 02.042.07;02.042.09;02.052.10**	290	130	235	185	320	6	10.5	251
02.043.03 to be installed with	**02.042.12**	350	175	310	250	380	6	10.5	312
02.043.04 to be installed with	**-**	384	215	375	300	420	6	12	334

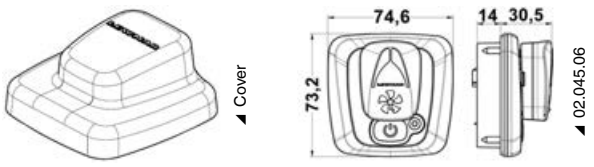
Code	With tube Ø mm
02.043.01	140
02.043.02	185
02.043.03	250
02.043.04	300



LEWMAR Blue Generation Thruster Joystick/Joypad

This joystick & joypad series offer superior touch control.
The controllers are installed without the need for rear access and feature a snap-on bezel to neatly hide the mounting screws.
A removable cover is also included, providing additional security against accidental use and giving extra environmental protection.
Diaphragm switch panel sealed from dust and moisture ingress. Single and dual controllers available.
Dual controllers give total control of the vessel via the multi-axis function pad.
12-24V dual voltage supply.
The multi-function LED indicator displays system deployment, thruster operation, low voltage, motor temperature warnings & fault conditions.

Code	Joystick
02.045.03	Single
02.045.06	Single
02.045.05	Dual



LEWMAR connecting cable

For Blue Generation thruster/control panel.

Code	Length m
02.046.07	7
02.046.10	10

Code	Length m
02.046.18	18
02.046.22	22

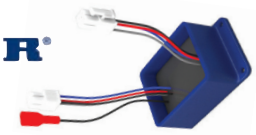
LEWMAR Y-shaped connector

For Blue Generation thrusters.

Code	Description
02.047.02	To combine two controllers 02.045.03/05/06

Black Generation thruster adapter

02.045.90 Adapter to apply to the new Blue Generation panels (02.045.03/05/06) for connection to Black Generation cables and thrusters.
The items of these two generations are marked out by the colour of the central unit.



LEWMAR

New LEWMAR proportional thrusters

The proportional thrusters from Lewmar have unlimited run-time, are very quiet in use, maintenance free and suitable for 24V installation The proportional series can be controlled by one of the aluminium controllers (02.146.xx) developed for this new type of motor.
The induction motor is controlled by the Lewmar Curtis controller. This in-house engineered motor controller can control 24V inputs. With this new system, Brushless motors have been chosen for their efficiency and unlimited runtime, and their ability to withstand tough sailing.
- Limitless running, the only restriction is your battery capacity.
- Ultimate control, proportional throttling allows delicate maneuvering.
- Zero maintenance, no brush to replace, longer life without a need for servicing.
- Retro-fit kits compatible with existing Lewmar thrusters.

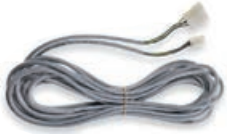
Code	Description	Ø-Tunnel mm	KW	Current draw A	Thrust KgF @100% input
02.146.02	140TT 2,2 KW Proportional	140	2.2	100	21
02.146.03	185TT 3,0 KW Proportional	185	3.0	150	45
02.146.05	185TT 5,0 KW Proportional	185	5.0	215	67
02.146.08	250TT 8,0 KW Proportional	250	8.0	360	119

LEWMAR

New Proportional controller

Brushless digital DC motors pair with their controls for a smooth sailing.
Engineered to reproduce the smoothness of a hydraulic system, the dedicated controls ensure precise maneuveuring.
Brushless motors are efficient, long-lasting, and withstand tough sailing.
Lewmar's engineering know-how offers precise mooring in extreme conditions.
Single or double controls with aluminium rings.

Code	Description
02.146.11	Single control panel - Aluminium
02.146.12	Double control panel - Aluminium



New Wiring kit for proportional thrusters

Connecting cable for control motor.

Code	Description
02.146.14	Control wiring - 14 m
02.146.18	Control wiring - 18 m
02.146.22	Control wiring - 22 m

OSCULATI

High-capacity fuse holder

Made of thermoplastic with removable protective clear cover.

Code	Base mm	For fuses
14.100.41	95x42	ANL 14.100.xx

High-capacity ANL Gold Plated fuse

For installation in control propellers.

Code	amp	For thrusters	Safety fuse box
14.100.48	250	**02.052.01; 02.042.07**	**14.100.41**
14.100.52	130	**02.052.04**	**14.100.41**
14.100.53	325	**02.052.10**	**14.100.41**
14.100.50	400	**02.052.06; 02.042.12**	**14.100.41**
14.100.51	500	**02.042.09**	**14.100.41**

New Bow thruster protection

PATENT **EASY INSTALLATION**

Protection to be installed without boring the tunnel of the existing thruster. It prevents lines or other objects from entering into the tunnel in order to protect the bow thruster from breakage.

It consists of a central ogive fitted with an internal CAM that pushes the arms outwards blocking the protection inside the thruster tube.

12.6% efficiency loss.
Sold in pairs.

Code	For pipe-Ø
02.050.18	185

► Manual winches and accessories

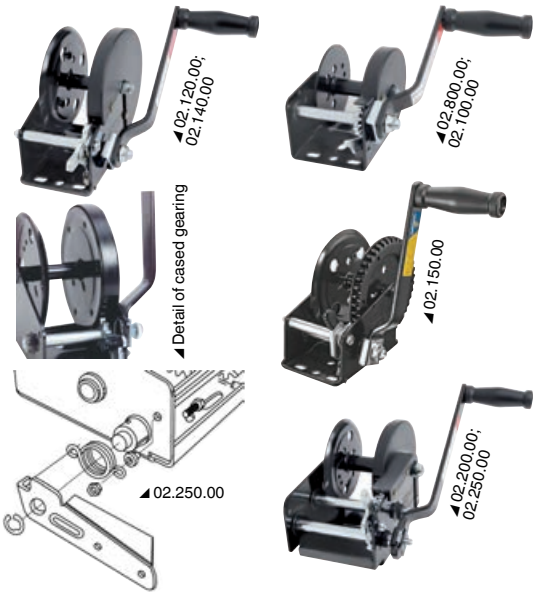
Boat haulage winch

Chromed-zinc steel body, high-resistance **hardened steel** pinions, self-lubricating bushing, reinforced handles, **stainless steel springs**, **cased gearing**.
Black epoxy powder coated. CE certified by TÜV.

Code	Max pull kg	Ratio	Max. capacity m	Speed	Gear	⟷ mm
02.800.00	350	3.2:1	33 (Ø 3 mm) / 14 (Ø 5 mm)	Single	Forward and idle	95x94
02.100.00	450	4:1	24 (Ø 5 mm) / 13 (Ø 8 mm)	Single	Forward and idle	140x88
02.120.00	540	4:1	24 (Ø 5 mm) / 13 (Ø 8 mm)	Single	Forward, idle, reverse	140x88
02.140.00	630	4:1	24 (Ø 5 mm) / 13 (Ø 8 mm)	Single	Forward, idle, reverse	140x88
02.150.00	727	4:1	24 (Ø 5 mm) / 13 (Ø 8 mm)	Single	Forward, idle, reverse	138x89
02.200.00	900	4:1 and 10:1	30 (Ø 5 mm) / 15 (Ø 8 mm)	Double	Forward, idle, reverse	175x125
02.250.00*	1125	5:1 and 12:1	30 (Ø 5 mm) / 15 (Ø 8 mm)	Double	Forward, idle, reverse	175x125

The max pull of the winches refers to use with one of cable.The max. pull load of the winches refers to the use with only one coil of cable.

* *Fitted with quick manual brake.*

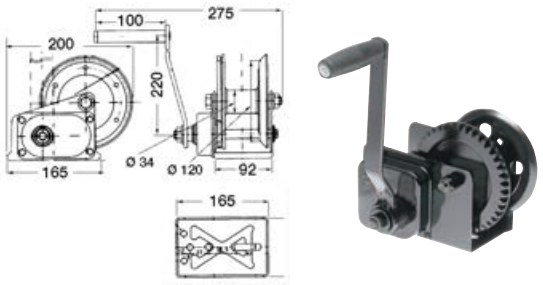


Boat haulage winch with clutch

Chromed-zinc steel body, high-resistance hardened steel pinions, self-lubricating bushings, reinforced handles, stainless steel springs, faired gearing. Brake Winch version **with automatic break and clutch**; without the pawl, the drum stays still and releases the handle.
CE certification by TÜV.

Code	Max pull kg	Ratio	Max capacity m	⟷ mm
02.252.00	630	4:1	22 (5-mm Ø)	165x92

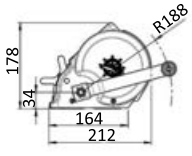
The max pull of manual winches refers to use with one wrap of cable.

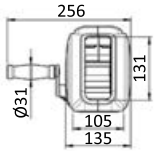


Boat haulage winch with technopolymer external case

Epoxy-powder coated steel frame, hardened steel pinions, self-lubricating bushings, reinforced handles, steel springs. CE certified by TÜV.

Code	Max pull kg	Ratio	Capacity	Speed	Gear
02.100.01	450	4:1	24 m (Ø 5 mm) / 13 m (Ø 8 mm)	Single	Forward, neutral
02.120.01	540	4:1	24 m (Ø 5 mm) / 13 m (Ø 8 mm)	Single	Forward, neutral, reverse
02.140.01	630	4:1	24 m (Ø 5 mm) / 13 m (Ø 8 mm)	Single	Forward, neutral, reverse



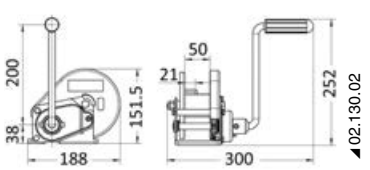


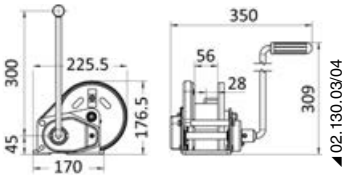
ROCK winch with automatic lock

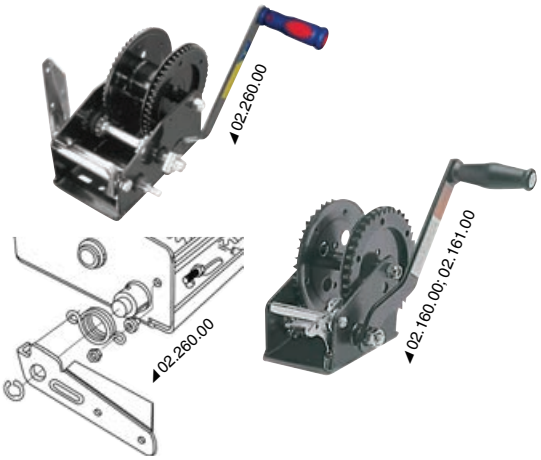
The self-locking device (working with a minimum load of 25 kg) allows a safe use of the winch.
Epoxy-powder coated galvanized chromed steel body.

Code	Max pull kg	Ratio	Accessories INCLUDED	Cable capacity m
02.130.02*	680	5.08:1	6 m of tape + snap hook	17 m of 5-mm Ø steel cable
02.130.03	900	8.78:1	10 m of 6-mm steel cable + snap hook	20 m of 6-mm Ø steel cable
02.130.04	1135	11:1	10 m of 6-mm steel cable + snap hook	20 m of 6-mm Ø steel cable

* *With safety cover on the gears*







Dual Drive boat haulage winch

Fitted with drive gears on both sides of the drum for enormous pull with reduced dimensions.

Code	Max pull kg	Ratio	Cable capacity m	Drive	⟷ mm
02.160.00	727	3.5:1	33 (Ø 3 mm) 14 (Ø 5 mm)	Forward, idle, reverse	90x160x130
02.161.00*	900	4.1:1	24 (Ø 5 mm) 13 (Ø 8 mm)	Forward, idle, reverse	90x190x160
02.260.00**	1454	5.1:1+12.1:1	30 (Ø 5 mm) 15 (Ø 8 mm)	Forward, idle, reverse	230x194x131

The max. pull load of the winches refers to the use with only one coil of cable..

* *Fitted with quick manual brake.*

** *Certified TÜV Germany.*

Dual Drive boat haulage winch

AISI 304

Made of high-resistance **stainless steel**, self-lubricating rotating bushings, electropolished finish. Certified by TÜV Germany.

Code	Max pull kg	Ratio	Cable capacity m	Gears	Drive	⟷ mm
02.118.01	384	3:1	33 Ø 3 - 14 Ø 5	1	forwards / reverse	90x160x130
02.118.02	545	3.5:1	24 Ø 5 - 13 Ø 8	2	forwards / idle / reverse	90x190x160
02.118.03	900	4.1:1	24 Ø 5 - 13 Ø 8	2	forwards / idle / reverse	90x190x160

The maximum pull load refers to the use with only one cable turn.

Belts with shackle

Made of high-resistance **nylon**, fitted with end shackle. To match winches sold on our catalogue. Compared to stainless steel cables, they do not overlap thus preventing possible injuries due to broken wires. Plug-and-Play installation to the winches.

Code	Breaking load	Length	Width	For winches
02.090.01	1800 kg	6 m	50 mm	**02.100.00; 02.100.01; 02.120.00; 02.120.01; 02.140.00; 02.140.01; 02.160.00; 02.161.00; 02.252.00; 02.800.00**
02.090.02	1800 kg	7.5 m	50 mm	**02.100.00; 02.100.01; 02.120.00; 02.120.01; 02.140.00; 02.140.01; 02.160.00; 02.161.00; 02.252.00; 02.800.00**
02.090.03	2500 kg	10 m	64 mm	**02.200.00; 02.250.00**

Cable for winch

Made of "Aircraft" **flexible galvanized steel**. Fitted with shackle and winch fastening device.

Code	Ø mm	Length m
02.091.00	5	4.5
02.091.01	5	6
02.091.02	5	7.5
02.091.03	6	7.5

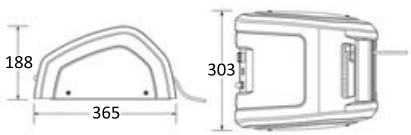
► Electric winches and windlasses trailers and garage tenders

LEWMAR

LEWMAR Captive CRW400 captive reel windlass

AISI 316

The CRW400 windlass represents a stepchange in engineering and design for small boat windlasses. Built around a stainless steel chassis with composite bearing technology and robust UV-stabilised ABS shell, the CRW400 is salt-water resistant and suitable for boats up to 9 m.



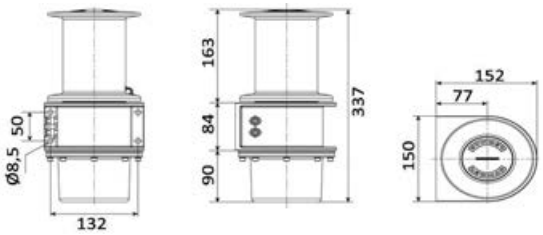
Code	Motor		Line Ø mm	Line capacity m	Max pull kg	Max line speed m/min	Current draw A	Anchor max weight kg	⟷ mm
	V	W							
02.537.01	12	400	6	35	275	25	15	16	365 x 303 x 188 (h)

TW650 tender garage winch

LEWMAR

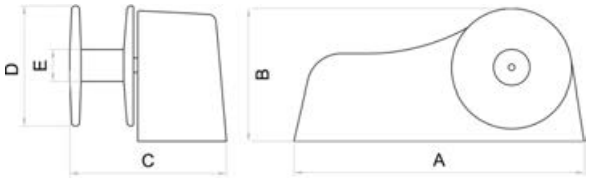
Black anodized aluminium frame for longer durability and optimum protection against the harsh marine environment.
The ABS motor cover is waterproof to IP68 standards.
The kit includes: winch, single solenoid, circuit breaker and line.
The TW650 winch is CE certified in compliance with the EN28846: 1993/A1:2000 standard.

Code	Motor		Pull kg max	Line speed m/min		8-mm rope	Max current draw A	Recommended circuit breaker A	(rope not included)
	V	W		unloaded	max load				
02.617.24	24	1000	750	14	8	9 m	41.67	50	8.8



ACHILL TENDER LIFT capstan for tenders

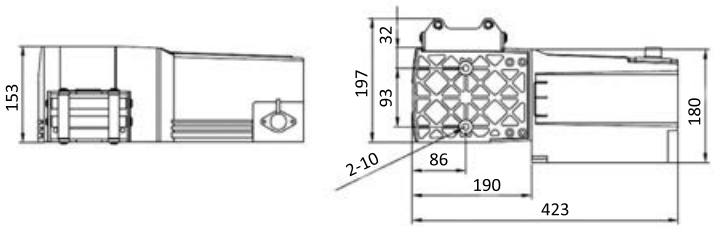
Vertical or horizontal mounting.
White ABS coating. Supplied with Control Box.



Code	Motor		Max instantaneous pull	Lifting working load kg	Working load current draw	Max line speed m/min	Belt max length m	kg	OPTIONAL belt	⟷ mm				
	W	V								A	B	C	D	E
02.618.12	500	12	650 kg	90	60 A	12	7.5	8.5	**02.090.01; 02.090.02**	360	165	195	150	40
02.618.24	500	24	660 kg	90	32 A	12	7.5	8.5	**02.090.01; 02.090.02**	360	165	195	150	40
02.619.24	1000	24	1500 kg	250	60 A	11	10	16	**02.090.01; 02.090.02; 02.090.03**	380	225	297	208	60

Electric winches for boat hauling, service tenders, jet skis or to fit on boat trailers

Technical characteristics:
- Forward, idle and reverse gear.
- Remote control with 5-m cord + cable guide rollers.
- Circuit breakers to prevent motor overloads.
- Dynamic and mechanical brake.
- Weather-resistant case.



Performance

Wraps on drum	Max pull with one wrap kg	02.151.11		02.251.11		02.351.11/24	
		Max pull	Line speed/Current draw A	Max pull	Line speed/ ConsumptionCurrent draw A	Max pull	Line speed/ ConsumptionCurrent draw A
1a	0	1134	5/30	1588	6.5/25	2041	6.5/25-10
2a	545	975	3.5/80	1340	5/110	1688	5/110-55
3a	907	855	2.3/150	1159	3.6/200	1440	3.6/210-95
4a	1134	761	1.3/200	1021	3.2/230	1255	3.2/240-110
5a	1361	-	-	913	2.5/260	1112	2.5/270-120
-	1588	-	-	-	1.8/300	-	1.8/290-140
-	1814	-	-	-	-	-	1.4/310-155
-	2041	-	-	-	-	-	0.4/330-170

Code	V	Max pull kg	Motor W	Consumption A	Galvanized cable	⟷ mm	kg
02.151.11	12	1.134	600	30/200	4.8 mm x 15 m	423x153x197	17.5
02.251.11	12	1.588	900	25/300	5.5 mm x 15 m	423x153x197	17.9
02.351.11	12	2.400	1.200	25/330	6.3 mm x 15 m	423x153x197	18.2
02.351.24	24	2.400	1.200	10/170	6.3 mm x 15 m	423x153x197	18.2

► Accessories and spares for boat trailers

Traditional rollers

Universal rollers for boat trailers.

Code	Core	Outer cover	Ø mm	Length mm	Ø bore mm	Colour
02.003.00	polypropylene	PVC	80	130	16	Black
02.004.00	polypropylene	PVC	80	220	20	Black
02.004.20	polypropylene	PVC	85	215	20	Black
02.007.00	-	PVC	110	76	14.5	Black
02.008.00	-	PVC	105	76	14.5	Black

Central keel roller with plastic core

Universal model, for boat trailers.

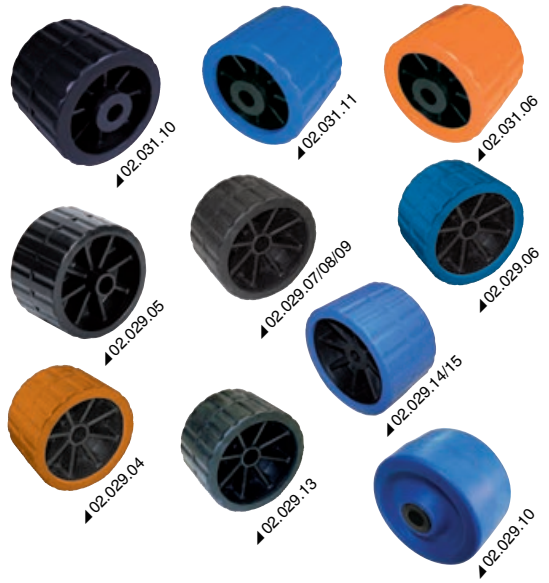
Code	Core	Outer cover	Ø mm	Length mm	Ø bore mm	Colour
02.003.02	polypropylene	PVC	80	130	16	White
02.031.08	PVC	rubber	90	120	14	Black
02.029.11	PVC	rubber	155	205	21	Black
02.029.12	PVC	rubber	155	205	25	Black

Central keel roller with steel core + plastic bushings

Universal rollers for boat trailers.

Code	Description	Outside	Ø mm	Length mm	Bore Ø mm	Colour
02.029.01	-	PVC	75	200	17	Black
02.029.02	-	PVC	75	200	26	Black
02.031.09	-	PVC	75	200	21	Black
02.032.09	-	PVC	75	200	21	Blue
02.032.49	-	High-resistance polyurethane	75	200	21	Orange
02.029.03	-	PVC	81	185	21	Black
02.029.23	-	PVC	81	185	21	Blue
02.029.43	-	High-resistance polyurethane	81	185	21	Orange
02.029.22	Standard: Northern Europe	PVC	93.5	286	21	Blue
02.029.42	-	High-resistance polyurethane	93.5	286	21	Orange
02.029.41	-	High-resistance polyurethane	93.5	286	26	Orange
02.029.20	Standard: Cresci / umbra	PVC	95	200	17	Blue
02.029.21	Standard: Cresci / umbra	PVC	95	200	21	Blue
02.029.24*	Eco roller	PVC	95	190	21	Black
02.029.25*	Eco roller	PVC	95	190	25	Blue
02.029.18	Standard: Thule / ellebi / branderup	PVC	110	195	17	Blue
02.029.19	Standard: Thule / ellebi / branderup	PVC	110	195	21	Blue

* *Low cost roller without steel core.*



Side roller with technopolymer core and polypropylene/rubber composite outer cover

Universal rollers for boat trailers.

Code	Description	Ø mm	Length mm	Bore Ø mm	Colour
02.031.10	Central bushing with spacer flush on the wheel	100	75	15	Black
02.031.11	Central bushing with spacer flush on the wheel	100	75	15	Blue
02.031.06	Central bushing with spacer flush on the wheel	100	75	15	Orange
02.029.05	Central bushing with spacer flush on the wheel	120	75	17	Black
02.029.07	-	120	75	15	Black
02.029.06	-	120	75	15	Blue
02.029.04	-	120	75	15	Orange
02.029.13	-	120	75	18.5	Black
02.029.14	-	120	75	18.5	Blue
02.029.08	-	120	75	17	Black
02.029.09	Swinging version	120	75	18.5	Black
02.029.15	Swinging version	120	75	18.5	Blue
02.029.10	Elevated load	135	75	22	Blue

Small spare rollers for helm

Code	Core	Outer cover	Ø mm	Length mm	Ø bore mm	Colour
02.006.00	Polypropylene	PVC	175	60	20	Black
02.006.01	Polypropylene	PVC	150	60	20	Black

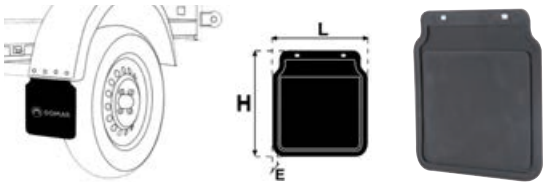
Roller/wheel with technopolymer core and rubber coating.

Code	Description	Ø mm	Height mm	Bore Ø mm	Colour
02.029.44	Wheel	195	70	20.5	black
02.029.46	Wheel	250	70	20.5	black

Dodger for musguards

Made of flexible polyethylene.

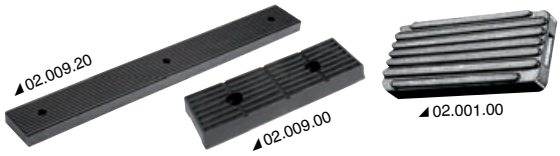
Code	L mm	H mm	E mm	For mudguard width mm
02.005.01	200	230	4	160/180
02.005.02	200	230	6	200



Rubber sheath

For bow support chafe protection

Code	Description	⟷ mm
02.001.00	Sheath for bow support	150x50x5
02.009.00	Saddle	300x100
02.009.20	Longitudinal saddle, it can be cut on request.	500x60x20



Side rollers with bracket

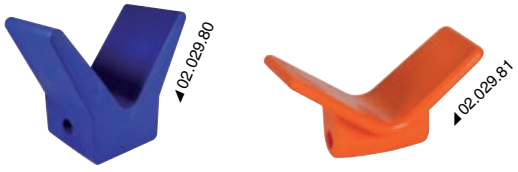
For 40-mm tubes. Fitted with stop device that prevents the rollers to move to a vertical position when the trailer is unloaded.

Code	Bracket with rollers	Rollers mm	Roller colour
02.031.48	fixed	120x75	Black
02.031.49	fixed	120x75	Blue
02.031.51	swinging	120x75	Black
02.031.52	swinging	120x75	Blue

Bow stop

Rubber support for bow rest

Code	Material	Bore mm	⟷ mm	Colour
02.029.80	Polypropylene/rubber	13	105x67x124	Blue
02.029.81	Polyurethane	13	150x67x89	Orange



Central roller

With adjustable brackets.

Code	Type	Centre distance mm	Spare roller
02.033.60	Small	60	02.031.08
02.033.70	Small	70	02.031.08

Keel central roller

Fixed central roller, double tube.

Code	Type	Tube section mm	A mm	B mm	C mm	D mm	Spare roller
02.030.10	Small	30x30	340	300	150	180	02.031.08
02.030.12	Small	40x40	340	300	150	180	02.031.08
02.030.14	Large	30x30	330	300	210	245	02.031.09; 02.029.11
02.030.16	Large	40x40	330	300	210	245	02.031.09; 02.029.11

Keel central roller, fixed version

Keel central roller, fixed version

Code	Type	Tube section mm	⟷ roller mm	Roller bore mm	Spare roller
02.030.01	Small	30x30	120x75	14	02.031.08
02.030.03	Small	40x40	120x75	14	02.031.08
02.030.05	Large	30x30	200x75	21	02.031.09; 02.029.11
02.030.07	Large	40x40	200x75	21	02.031.09; 02.029.11

ELLEBI central roller

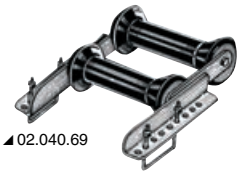
With U brackets for mounting.

Code	Type	Spare roller
02.040.75	With bracket	02.031.09; 02.029.11

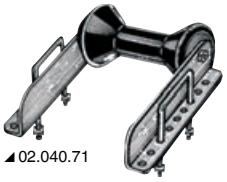
Central keel roller

Small version with adjustable radiate support

Code	For square tube mm	Spare roller
02.031.14	70x70	02.031.08
02.031.13	80x80	02.031.08
02.040.56	100x100	02.031.08



◢ 02.040.69



◢ 02.040.71

Brackets with rear keel roller

Rear keel roller fitted with U brackets for mounting.

Code	Type	Adjustable brackets mm	Spare roller
02.040.69	Double/swinging	60*	02.031.09; 02.029.11
02.040.71	Single	60*	02.031.09; 02.029.11

* *For 50/70-mm centre distances order U-bracket 02.040.85/87*

Central roller

Extra-large version with U bracket.

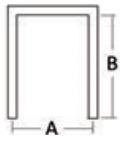
Code	Type	Adjustable bracket mm	Spare rollers
02.040.72	Double / swinging	60 *	02.029.19
02.040.73	Single	60 *	02.029.19

* *For 50/70-mm centre distances order U-bracket 02.040.85/87*

U-bracket

For fixed or swinging central roller mounting.

Code	For hoses mm	A mm	B mm
02.040.84	30	48	116
02.040.85	50	68	80
02.040.86	70	88	110
02.040.87	60	78	90



Mounting bracket for roller

Fitted with counter plate for mounting.

Code	Direction	For roller
02.040.78	Right	02.031.16
02.040.79	Left	02.031.16

Universal bow stop

Fitted with U bolt and chafe protections

Code	Height cm	Fitted with rubber
02.040.37	50	02.001.00

Bow stop

Heavy adjustable version.

Code	Model	Length mm
02.057.07	universal	645

Pull safety strap

Pull strap for boat trailers fitted with hooks. Top quality.

Code	Length mm	Ø mm
02.057.13	950	3

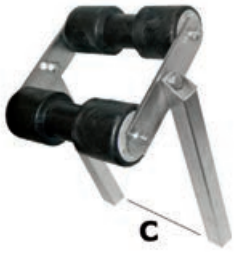
Swinging side roller

Code	Version	Square tube mm	No. of rollers	Roller Ø mm	Spare roller	Colour
02.031.16	Straight	30	2	100	**02.031.10**	Black
02.031.22	Double bracket, fixed roller	40	2	120	**02.029.13; 02.029.14**	Black
02.031.23	Double bracket, swinging roller	40	2	120	**02.029.09; 02.029.15**	Black
02.031.17	Straight	40	2	100	**02.031.10**	Black
02.031.18	Raised	40	2	100	**02.031.10**	Black
02.031.15	Straight	40	4	100	**02.031.10**	Black
02.031.20	Raised	40	4	100	**02.031.10**	Black
02.031.25	Raised	40	6	100	**02.031.10**	Black
02.031.30	Raised	40	8	100	**02.031.10**	Black
02.031.35	Straight	30	2	120	**02.029.09**	Black
02.031.36	Straight	40	2	120	**02.029.09**	Black
02.031.37	Raised	40	2	120	**02.029.09**	Black
02.031.40	Straight	40	4	120	**02.029.09**	Black
02.031.45	Raised	40	4	120	**02.029.09**	Black

Swinging central roller

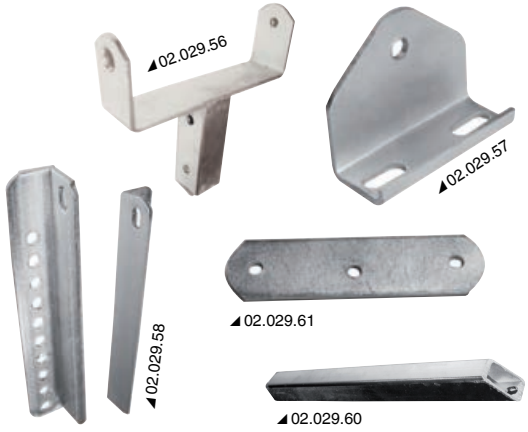
For boat trailers. Cut tube version.

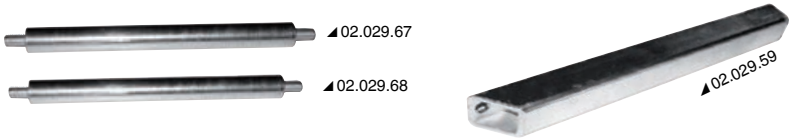
Code	Type	Tube section mm	C mm	Spare roller
02.030.30	Large	30x30	222	**02.031.09; 02.029.11**
02.030.32	Large	40x40	222	**02.031.09; 02.029.11**



Accessories for central rollers

Code	Description	Matching rollers
02.029.56	Bracket with 40x40-mm tube	**02.031.09; 02.029.19; 02.029.01; 02.029.18**
02.029.57	Pair of 100x100-mm multiple bore brackets	**02.031.09; 02.029.19; 02.029.01; 02.029.18**
02.029.58	Pair of 250-mm multiple bore angle plates	**02.031.09; 02.029.19; 02.029.01; 02.029.18**
02.029.59	30x30x300 (length)-mm tube for central rollers	**02.031.09; 02.029.19; 02.029.01; 02.029.18**
02.029.60	40x40x300 (length)-mm tube	**02.031.09; 02.029.19; 02.029.01; 02.029.18**
02.029.61	Plate for swinging rollers	**02.031.09; 02.029.19; 02.029.01; 02.029.18**
02.029.67	20-mm Ø pin - 210-mm long	**02.031.09; 02.032.09; 02.032.49; 02.029.03; 02.029.23; 02.029.43; 02.029.21; 02.029.19**
02.029.68	16-mm Ø pin - 208-mm long	**02.029.01; 02.029.18; 02.029.20**

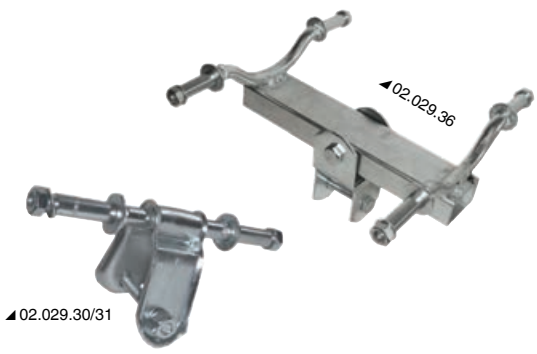


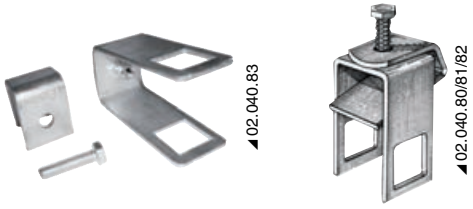


Bracket for 120-mm Ø side roller

Butterfly bracket.

Code	Bracket	For tube Ø mm	Roller to be installed
02.029.30	Straight	30	**02.029.07**
02.029.31	Straight	40	**02.029.07**
02.029.32	Raised	30	**02.029.07**
02.029.33	Raised	40	**02.029.07**
02.029.36	4 raised rollers	40	**02.029.07**





Locking bracket for tube

For side rollers, fitted with tightening bolts.

Code	⟷ square bore mm	For tube frame mm	For roller
02.040.82	30	50x50	**02.031.16**
02.040.81	30	60x60	**02.031.16**
02.040.80	40	60x60	**02.031.15; 02.031.17; 02.031.18**
02.040.83	40	70x70	**-**

Tube for rollers

For box section side rollers.

Code	Square mm	Length mm
02.029.50	30x30	350
02.029.51	40x40	400

Tightening nut not included

Reinforced rubber support

For boat trailers with articulated bracket.

Code	A mm	L mm	H mm
02.029.52	500	60	50

Caster

Front rest caster.

Code	Type	Static load kg	Tube Ø mm	⟷ wheel mm
02.016.51	Adjustable in height	75	35	150x60
02.014.57	Adjustable in height	150	48	200x50
02.016.52	Adjustable in height	400	60	255x80
02.014.56	Fixed	-	35	150x40

Caster support

Fixed or adjustable version

Code	Tube Ø mm	For wheel	Mounting
02.014.58	35 fixed	**02.014.56**	Welding/screwing
02.020.34	35 adjustable	**02.016.51**	Welding/screwing
02.014.59	48 adjustable	**02.014.57**	Welding/screwing
02.014.55	60 adjustable	**02.016.52**	Screwing

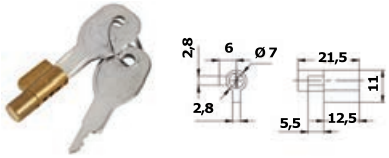
Tow ball

Code	Version
02.011.01	Regulatory

Towbar

Code	Version
02.011.02	Right angle

Hook locking device



Code	Version
02.010.80	Universal

Antitheft device for boat trailers

To be applied on the ball joint when the boat trailer is not coupled.

Code	Model
02.010.81	Universal

Anti-theft device for trailers

To be used on both hooked and unhooked trailers.

Code	Version
02.057.16	Universal

Type-approved tow hook

Universal ball joint for whatever boat trailer. Available in all sizes.

Code	For tube Ø mm	For loads up to kg
02.010.74	Round 35	750
02.010.75	Round 50	750
02.010.76	Square 50	750
02.010.77	Square 60	750
02.010.63	Round 35 to 50 cm (adjustable)	1300
02.010.64	Round 35	1300
02.010.65	Round 50	1300
02.010.66	Square 50	1300
02.010.67	Square 60	1300
02.010.68	Round 35 to 50 cm (adjustable)	2000

▲02.010.64/74

▲02.010.65/75

▲02.010.63/68

▲02.010.67/77

▲02.010.66/76

Type-approved tow hook for extra-large boat trailers

Universal type, fitted with adapters.

Code	For tube Ø mm	For loads up to kg
02.010.72	35/40/50	3000

Rubber bellows for tow hook

For bumpers type 30S - 60S - 90S.

Code	Type
02.010.70	Universal

Spare wheel support

Made of nylon, 12-mm bolt.

Code	Ø mm
02.010.85	87

Mudguard for boat trailer wheels

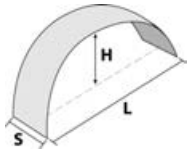
Rounded of flat top.

Code	Material	⟷			For wheels
		L mm	H mm	S mm	
02.012.01	Galvanized iron	700	380	185	13" / 14"
02.012.02	MOPLEN	550	170	160	8"
02.012.03	MOPLEN	610	240	180	10"
02.012.07	MOPLEN	770	330	210	13" / 14"

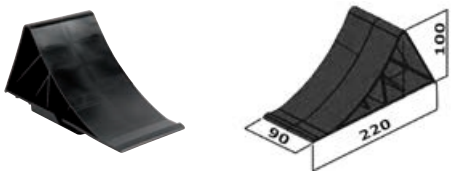
▲02.012.01

▲02.012.02

▲02.012.03



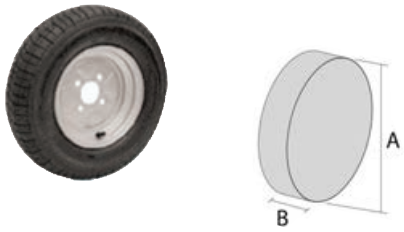
▲02.012.07



Safety chock

Designed to block boat trailer wheels.
Fitted with snap support for mounting on the boat trailer chassis.

Code	Material	⟷ mm
02.010.90	Plastic	220x100x90



Tyres for high-speed boat trailers

Type-approved up to 140 km/h. Wheel rim with groove profile made of pressed plate.
Rustproof epoxy coating. Central hub with standard joint.

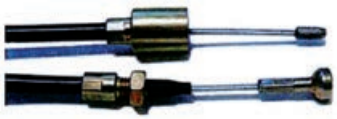
Code	Section	A mm	B mm	No of plies	Wheel joint		kg
					For	Boring	
02.013.02	4/8"	410	107	6	Fiat	4	295
02.013.06	4/10"	470	115	6	Fiat	4	360
02.013.07	4.5/10"	490	126	6	Fiat	4	390
02.013.09	145/10"	490	137	6	Fiat	4	400

Brake kit for boat trailers

The kit includes: 4 x brake blocks + springs + adjuster pivots.
A single kit is enough to replace the blocks on both brakes of the trailer axle.

Code	Brakes kit		OEM	⟷ mm
	brand	model		
02.035.02	AL-KO	1635-1636-1637	1213888	160X35
02.035.03	AL-KO	2035	1220328	200X35
02.035.04	AL-KO	2050-2051	1213889	200X35
02.035.05	AL-KO	2360-2361	1213890	230X60
02.035.06	BPW	S-2005-7 RASK	-	200X50
02.035.08	BPW	S-2504-7 RASK	-	250X40
02.035.09	KNOTT	16-1365	-	160X35
02.035.10	KNOTT	20-963/1	-	200X35
02.035.11	KNOTT	20-2425/1	-	200X50
02.035.12	KNOTT	203216-47	-	203X40
02.035.13	KNOTT	25-2025/1	-	250X40

◢ Type A


◢ Type B

◢ Type 140/B

AL-KO brake cables

For brake control of the boat trailer axles. Fitted with sheave and headed cable.

Code	Models for brakes	Length mm	Type
02.035.32	SB-SR-1635	920 - 1145	A
02.035.33	SB-SR-1635	1040 - 1265	A
02.035.34	SB-SR-1635	1160 - 1385	A
02.035.35	SB-SR-1635	1340 - 1565	A
02.035.36	SB-SR-1635	1460 - 1685	A
02.035.40	1625-1637-2051 and 1637 - 2051 - 2361 Europlus version	800 - 1020	140/B
02.035.41	1625-1637-2051 and 1637 - 2051 - 2361 Europlus version	1040 - 1260	140/B
02.035.42	1625-1637-2051 and 1637 - 2051 - 2361 Europlus version	1220 - 1440	140/B
02.035.53	Compact 1637 - 2051Aa/2051Ab	890 - 1086	B
02.035.54	Compact 1637 - 2051Aa/2051Ab	1020 - 1216	B
02.035.55	Compact 1637 - 2051Aa/2051Ab	1130 - 1326	B
02.035.56	Compact 1637 - 2051Aa/2051Ab	1320 - 1516	B

Adjustable telescopic support

It matches rests 02.029.52 as well as rollers and brackets 02.029.xx and 02.031.xx.

Code	Outer tube mm	Inner tube mm	Plate mm
02.031.60	50x50x250	40x40x250	180x120

◢ 02.031.60 application

► Accessories and electrical parts for boat trailers

Rear light

Rear position light for boat trailers. Suitable to almost any boat trailer on the market.

Code	Description	Functions	Bulbs (not supplied)
02.021.01	Right rear light	**N.3**: Position / Stop / Direction	**3** (2 x 21W BA15S bulbs + 1x 5W BA15S bulb)
02.021.02	Left rear light	**N.4**: Position / Stop / Direction / Plate light	**3** (2 x 21W BA15S bulbs + 1 x 5W BA15S bulb)
02.021.05	Right rear light	**N.3**: Position / Stop / Direction	**2** (1 x 21W BA15S bulb + 1 x 5-21W BAY15D bulb)
02.021.06	Left rear light	**N.4**: Position / Stop / Direction / Plate light	**2** (1 x 21W BA15S bulb + 1 x 5-21W BAY15D bulb)

◢ 02.021.01

◢ 02.021.02

◢ 02.021.06

◢ 02.021.05

LED position lights for ELLEBÌ trailers

LED White or orange side reflector.

Code	V	Description
02.021.40	12/24	Front white light
02.021.41	12/24	Front white light with bracket
02.021.42	12/24	Front white light with bracket
02.021.43	12/24	Front white light with bracket
02.021.50	12/24	Side orange light
02.021.51	12/24	Side orange light with bracket
02.021.52	12/24	Side orange light with bracket

◢ 02.021.50

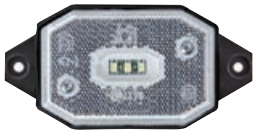
◢ 02.021.51

◢ 02.021.52

◢ 02.021.40

◢ 02.021.41

◢ 02.021.42


◢ 02.021.43

Tail lights for ELLEBÌ boat trailers

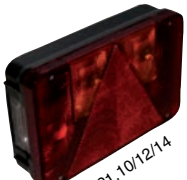
Code	Description	Functions	Bulbs (not supplied)	⟷ mm
02.021.08	RIGHT rear light	**N.5**: Side / Stop / Direction / Rear fog / Plate	**4** (2 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb+ 1 x 5W BA15S bulb)	190x100
02.021.09	LEFT rear light	**N.5**: Side / Stop / Direction / Rear fog / Plate	**4** (2 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb + 1 x 5W BA15S bulb)	190x100
02.021.10	RIGHT rear light	**N.5**: Side / Stop / Direction / Rear fog / Plate	**4** (3 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb)	218x140
02.021.11	LEFT rear light	**N.5**: Side / Stop / Direction / Rear fog / Plate	**4** (3 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb)	218x140
02.021.12	RIGHT rear light	**N.4**: Side / Stop / Direction / Rear fog	**4** (3 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb)	218x140
02.021.13	LEFT rear light	**N.4**: Side / Stop / Direction / Rear fog	**4** (3 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb)	218x140
02.021.14	RIGHT rear light	**N.5**: Side / Stop / Direction / Plate / Reverse	**4** (3 x 21W BA15S bulbs + 1 x 5-21W BAY15D bulb)	218x140
02.021.30*	RIGHT-LEFT rear light	**N.3**: Side / Stop / Direction	-	152x86
02.021.31**	RIGHT rear light	**N.4**: Side / Stop / Direction / Plate	-	195x86
02.021.32***	LEFT rear light	**N.4**: Side / Stop / Direction / Plate	-	195x86
02.021.35	Plate white light	-	-	30x80x34

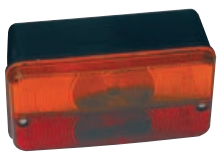
* *OEM 297510009*
** *OEM 297701005*
*** *OEM 297701006*

◢ 02.021.08

◢ 02.021.09

◢ 02.021.11/13


◢ 02.021.10/12/14


◢ 02.021.30

◢ 02.021.31/32

◢ 02.021.35

Rear LED light with triangular reflector

No. 7 functions: position / stop / direction / fog / reverse / side / plate.

Code	V	Description
02.021.20	12	RIGHT rear light
02.021.21	12	LEFT rear light

LED rear light

For universal registration plate.

Code	Function
02.021.36	Plate LED light

◢ 02.021.28

◢ 02.021.29

Dynamic LED rear light

4 functions, dynamic turn light.

Code	V	Description	Function
02.021.28	12	Right light	Position, Stop, Plate, DYNAMIC turn (inner-to-outer flashing)
02.021.29	12	Left light	Position, Stop, Plate, DYNAMIC turn (inner-to-outer flashing)

◢ 02.022.01

◢ 02.022.02

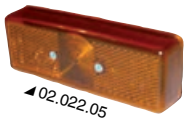
◢ 02.022.03

◢ 02.022.04

Clearance light

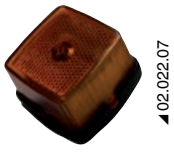
Universal type.

Code	Description	Colorus
02.022.01	Side clearance light, flat base	White/Red
02.022.02	Side clearance light, rubber base	White/Red
02.022.03	Side clearance light	White
02.022.04	Side clearance light, rubber base	White
02.022.05	Side clearance light	Orange retroreflector
02.022.06	Clearance light support	- -
02.022.07	Side light	Orange retroreflector



◢ 02.022.05

◢ 02.022.06



◢ 02.022.07

◢ 02.022.10

◢ 02.022.09

◢ 02.022.12

LED rear light

For several functions, universal type.

Code	V	Description	No of function
02.022.09	12/24	45° side light	**1** = White/red side
02.022.10	12/24	90° side light	**1** = White/red side
02.022.12	12	RIGHT/LEFT 4-mode rear light	**4** = Side / Stop / Direction / Plate

◢ 02.023.12

Rear light kit

7.50-m 5-pole central cable. 2.50-m light-to-light cable.
RIGHT light: position + stop + direction + plate light. LEFT light: position + stop + direction.
7-pole plug.

Code	Type
02.023.10	Screw mounting
02.023.11	Magnetic mounting
02.023.12	Magnetic mounting + reflecting triangles

◢ 02.023.10

◢ 02.023.11

Rear bar with lights

7.50-m 5-pole central cable.
RIGHT light: position + stop + direction + plate light. LEFT light: position + stop + direction.
7-pole plug. Reflecting triangles.

Code	Description
02.023.14	110/190-cm adjustable bar

Rear plastic bar with lights

5-m 5-pole central cable.
RIGHT light: position + stop + direction + plate light. LEFT light: position + stop + direction.
7-pole plug. Reflecting triangles.

Code	Description
02.023.15	120-cm plastic bar

Rear bar with dynamic LED lights

Central cable: 7 metres, 5 poles. **Dynamic LED** lights: all-round, stop, plate lights and **dynamic** turn signal tail lights (light sliding outwards). Retro-reflective triangle.

Code	Description
02.023.17	110/190-cm adjustable bar

LED light kit

7.50-m 5-pole central cable. 2.50-m light-to-light cable.

Code	V	Type	Mounting	Reflecting triangles	Plug poles
02.023.22	12/24	Position - stop - turn - plate light	Magnetic	Yes	7
02.023.23	12/24	Position - stop - plate - **dynamic turn** with inner-to-outer flashing	Magnetic	Yes	7

◢ 02.023.22

◢ 02.023.23

Kit of wireless independent LED lights

Powered by rechargeable integrated batteries.

Code	Functions	Type
02.023.24	Position, Stop, **Dynamic turn** (inner-to-outer flashing), Plate, Triangles	Magnetic fastening

Extension cable for boat trailer

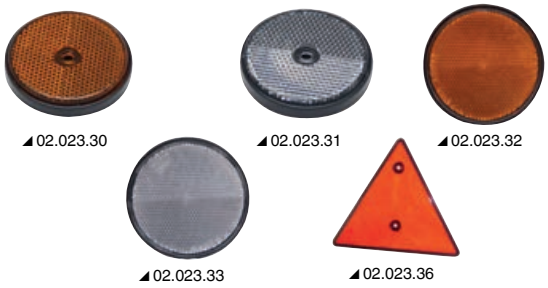
For electronic signal transfer from the towing vehicle to the boat trailer.
European connection. Waterproof and sturdy.

Code	Length m	Version
02.024.01	5	7-pole socket + 7-pole plug
02.024.02	7	7-pole socket + 7-pole plug
02.024.03	10	7-pole socket + 7-pole plug
02.024.05	8	2 x 7-pole plugs
02.024.06	7	2 x 7-pole plugs
02.024.07	10	2 x 7-pole plugs
02.024.08	5	2 x 13-pole plugs
02.024.09	7	2 x 13-pole plugs
02.024.10	10	2 x 13-pole plugs

◢ 02.024.01/02/03

◢ 02.024.05/06/07

◢ 02.024.08/09/10



Reflectors

Round or triangular. High visibility.

Code	Model	Version	⟷ mm
02.023.30	Orange reflector	Central hole	60
02.023.31	White reflector	Central hole	60
02.023.32	Adhesive orange reflector	Sticker	60
02.023.33	Adhesive white reflector	Sticker	60
02.023.36	Triangular reflector	Screws	70 (bore centre distance)

Type-approved speed disc

Self-adhesive fastening. 200-mm diameter.

Code	Description	Ø mm
02.023.40	Speed 70	200
02.023.41	Speed 80	200

New Speed disc support

Made of flexible plastic, universal model.

Code	⟷ mm
02.023.50	300x200

► Plugs and sockets for boat trailers

Socket + 7-pole plug

Type-approved for towing.
Made of **black ABS and chromed brass internal parts**.
Long lasting and rust-proof model.

Code	Description	V
14.190.00	Socket + plug	12
14.190.01	Socket only	12
14.190.02	Plug only	12

13-pole plug

Made of black ABS with **chromed brass** parts. It matches socket 14.191.01.

Code	V	For trailers
14.191.02	12	ISO 11446

13-pole socket

Made of **black ABS** with **chromed brass** parts.

Code	V	For trailers
14.191.01	12	ISO 11446

Electrical adapter for boat trailers

Made of **black ABS** with **chromed brass** parts.

Code	Description
14.190.50	Adapter for plugging 7-pole plug to 13-pole socket
14.190.51	Adapter for plugging 13-pole plug to 7-pole socket

► Cables

Cables made of AISI 316 stainless steel

AISI 316 Preformed and polished, available in 100 metre spools.
Very reliable top-quality product.

mm	19-strand cable		49-wire cable		133-strand cable	
		Breaking load kg		Breaking load kg		Breaking load kg
1.5	**03.171.15**	160	**03.178.15**	150	**03.172.15**	146
2	**03.171.20**	300	**03.178.20**	250	**03.172.20**	230
2.5	**03.171.25**	480	**03.178.25**	380	**03.172.25**	340
3	**03.171.30**	690	**03.178.30**	530	**03.172.30**	500
4	**03.171.40**	1200	**03.178.40**	1000	**03.172.40**	920
5	**03.171.50**	1900	**03.178.50**	1550	**03.172.50**	1400
6	**03.171.60**	2700	**03.178.60**	2200	**03.172.60**	1920
7	**03.171.70**	4000	**-**	-	**03.172.70**	2800
8	**03.171.80**	5200	**03.178.80**	3900	**03.172.80**	3650
10	**03.171.10**	7600	**-**	-	**03.172.10**	5800
12	**03.171.12**	10000	**-**	-	**-**	-

▲ 03.171.xx

▲ 03.178.xx

▲ 03.172.xx

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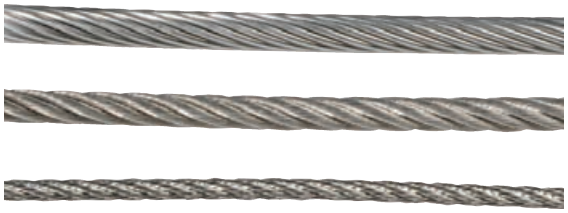
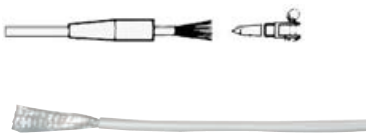


Parafil cable

Made up of "Terylene" continuous yarn, coated with **white** alcatene girdle.
This Parafil cable is almost as resistant as steel, though it is much lighter; insulating power, no maintenance required; **ideal for handrails**.

Code	Ideal for	Ø mm	Working load kg	Weigth g/m	Coil m
03.182.07	Handrails	7	510	37	100
03.182.09	Handrails	9	1015	55	100



Cables made of AISI 316 stainless steel coated with white PVC

AISI 316 Polished and preformed

Code	Type	Ideal to make	Cable Ø mm	Outer Ø with PVC mm	Roll m
03.180.06	Flexible 7x7 (49 wires)	Guardrails and handrails	3	6	100
03.180.08	Flexible 7x7 (49 wires)	Guardrails and handrails	4	8	100
03.181.04	1x19 wires	Protected riggings, guardrails and handrails	2.5	4	100
03.181.06	1x19 wires	Protected riggings, guardrails and handrails	3	6	100
03.181.07	1x19 wires	Protected riggings, guardrails and handrails	4	8	100

► Sheaves and springs

Sheave

Code	Type	Pulley		Body in
		size mm	made of	
03.300.00	fixed with 3-hole base	50	nylon	brass
03.301.00	movable with bridge	50	nylon	brass
03.302.00	double joint with bridge	50	nylon	brass

Spring for steering systems

Code	Description
03.190.00	Made of high resistant **stainless steel** 18/8.

Sheave for steering system

Code	Description
03.305.01	Fitted with rotating spring shackle, made of **chromed brass** and 50 mm nylon pulley.

Sheave for cockpit rope exit

Code	Description
03.307.00	Made of **chromed brass**, fitted with 60 mm nylon pulley.

► Gaskets, Covers, Bellows and Witches Hats

Cable fairlead made of polypropylene

For electrical cables and steering gears.

Code	Internal Ø mm	External Ø mm	Plastic color
03.408.00BI	60	90	white
03.408.00NE	60	90	black

Bellows for cable protection, made of plastic

It comes with two ties. It protects the cables and makes them watertight.

Code	Ø mm	Length mm	Color
03.150.80	38	190	black

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Fairlead cradle, conic, made of PVC

Includes mounting ring nut and **nylon** cable tightening clamp.

Code	Internal Ø mm	Ø out mm	Size mm	Color	ORDER BY BOX
03.407.00	70	105	74	white	5
03.407.01	70	105	74	black	5

Fairlead ring nut and washer, made of PVC

Mirror polished **AISI 316 stainless steel** ring nut.

Ring nut	Gasket		Internal Ø mm	Ø external mm	ORDER BY BOX
	white	black			
03.410.01	**03.420.70**	**03.420.72**	48	75	10
03.410.02	**03.420.90**	**03.420.92**	58	90	10

Fairlead ring nut 03.410.02 with bellows

Mirror polished stainless steel ring nut, rubber DUTRAL bellows, anti-saline and watertight.

Code	Color	Internal Ø mm	External Ø mm
03.410.00	black	58	90
03.411.00	grey	58	90

Bellows made of rubber

Large hole, for steering gears and electrical cables. With black ABS ring nut.

Code	Ø base mm	Depth mm
03.409.01	140	80

Bellows for remote control cables, made of rubber

For the steering gear control box cables. With black ABS ring nut

Code	Ø base mm
03.150.78	78

Fairlead bellows made of Dutral anti-saline rubber

It can be **pressure mounted** onto the bulkhead of the cockpit with a special built-in flange; it does not require ring nuts or screws; the terminal is made ready for cutting.

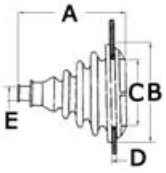
white	grey	black	A mm	B mm	C mm	D mm	E mm	Possible cuts
03.413.02	**03.413.01**	**03.413.00**	75	74	42	3/5	9/15	2
03.412.02	**03.412.01**	**03.412.00**	105	100	70	3/5	10/20	2
-	-	**03.414.00**	175	110	80	3/5	10/30	4

◢ 03.414.00

◢ 03.412.00/03.413.00

◢ 03.412.01/03.413.01

◢ 03.412.02/03.413.02



ABS cable ring gland with rubber bellows

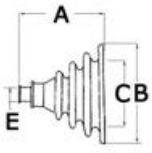
Rubber bellows in saline-resistant, watertight "Dutral", suitable for passing steering cables, petrol pipes and remote control cables.

Code	Depth mm	ABS color	External Ø mm	Passage mm
03.409.00	70	black	88	54

Openable fairlead bellows

Cut longitudinally, with 2 overlapping lips. It can be mounted without taking off the cables.
Made of soft EVA.

Code	A mm	B mm	C mm	E mm
03.415.01	85	107	80	9/14
03.415.02	120	135	100	10/18



Rubber fairlead

With movable fins for bulkhead mounting. ideal as fishing rod holder.

Code	Internal Ø mm	External Ø mm
41.668.00	10/50	70
41.668.50	15/75	100

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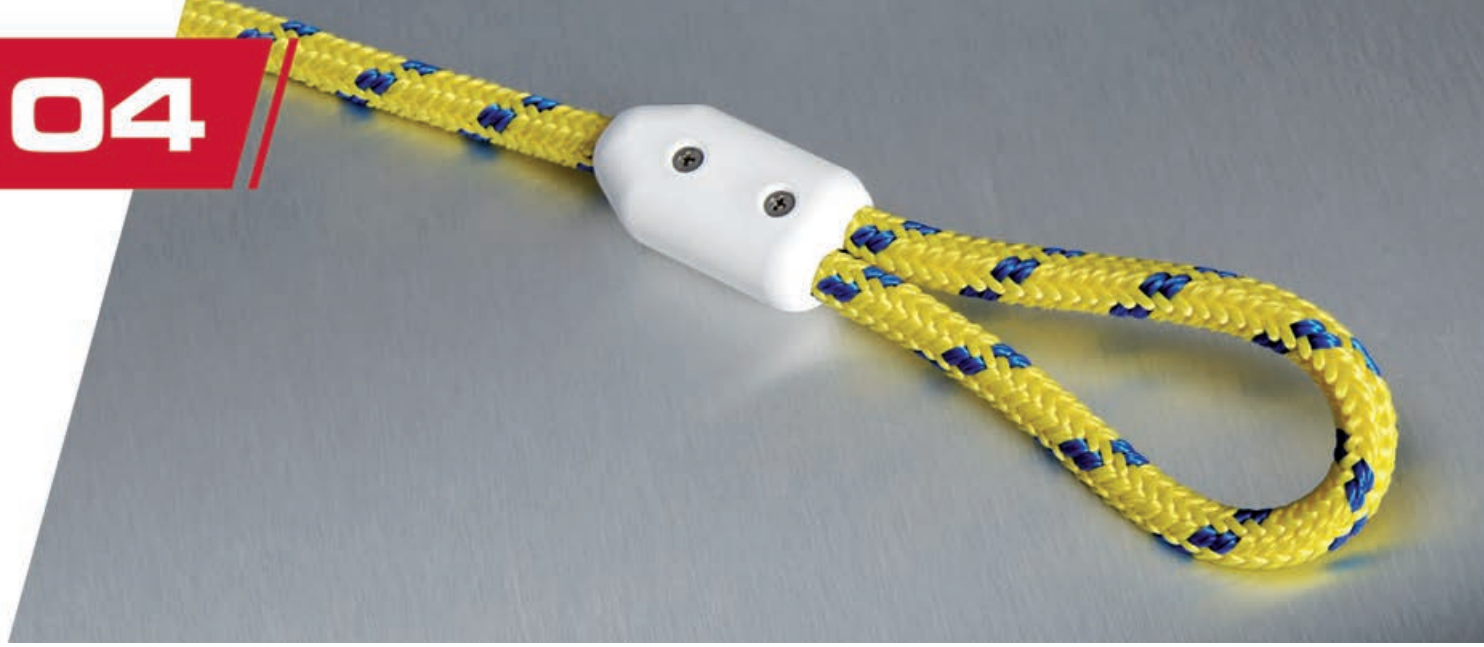


► Splicing hardware

OSCULATI

Clamps for rope splicing

Made of **plastic composite** material.
Lightweight, rust-proof and reliable, easy to make slipknots and splicing with rope thimbles.
Suitable for stranded wires or 3-ply ropes.

Code	Compact line mm	Soft line mm	Colour	ORDER BY BOX
04.179.05	5	6	White	2
04.179.08	6	7	White	2
04.179.10	8	10	White	2
04.179.12	10	12	White	2
04.179.16	12	14	White	2

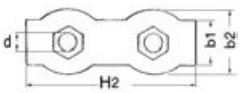
U-bolt clamps

AISI 316 Made of **mirror polished AISI 316 stainless steel**.

Code	For cable size mm	Thread	ORDER BY BOX
04.180.00	1.5/2	M3	10
04.180.01	2/3	M3	10
04.181.01	3/4	M4	10
04.181.02	4/5	M5	10
04.181.03	6	M5	10
04.181.04	7/8	M6	10

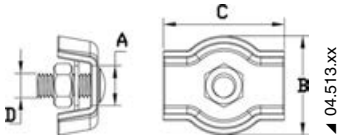
Code	For cable size mm	Thread	ORDER BY BOX
04.181.05	9/10	M8	5
04.181.06	11/12	M10	5
04.181.07	13/14	M10	-
04.181.08	15/16	M10	-
04.181.10	19/21	M12	-

◢ 04.512.xx



◢ 04.512.xx

◢ 04.513.xx



◢ 04.513.xx

Stainless steel clamps

Suitable for bare or plastic-coated cables.

Code	Version	b1 mm	b2 mm	d mm	h2 mm	A mm	B mm	C mm	D	For cables mm
04.512.03	Double	6	14	M4	38	-	-	-	-	3
04.512.04	Double	8	17	M5	43	-	-	-	-	4
04.512.05	Double	10	20	M5	51	-	-	-	-	5
04.512.06	Double	12	24	M6	63	-	-	-	-	6
04.512.08	Double	17	31	M8	78	-	-	-	-	8
04.513.02	Simple	-	-	-	-	4.3	11	15	M4	2
04.513.03	Simple	-	-	-	-	6	14	18	M4	3
04.513.04	Simple	-	-	-	-	8.5	16.5	20	M5	4
04.513.05	Simple	-	-	-	-	11	20	25	M5	5

Clamp made of stainless steel 18/8

Suitable for bare or plastic-coated cables; very sturdy and functional.

Code	For cable size mm
04.184.00	2/6

Clamp made of stainless steel

Suitable to fasten flags onto the rigging and to be used as hooking points.

Code	Material	For cables mm
04.181.20	Stainless steel	3/6

Splicing sleeves made of aluminium

To be used with its dedicated pliers to create eye terminals on wire cables.

Code	Cable Ø mm	Code	Cable Ø mm	Code	Cable Ø mm
04.566.02	2	**04.566.04**	4	**04.566.08**	8
04.566.25	2.5	**04.566.05**	5		
04.566.03	3	**04.566.06**	6		

Splicing sleeves

Made of **galvanized** copper.

Code	Cable Ø mm	ORDER BY BOX	Code	Cable Ø mm	ORDER BY BOX
04.569.02	2	10	**04.569.05**	5	10
04.569.25	2.5	10	**04.569.06**	6	10
04.569.03	3	10	**04.569.08**	8	10
04.569.04	4	10	**04.569.10**	10	10

Splicing pliers

Special steel high frequency hardened jaws; rubber handles; sleeve press micrometrical adjustment.

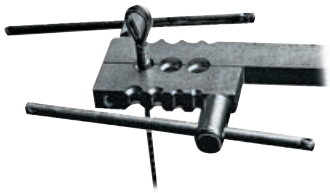
Code	Length mm	Fitted with	Suitable for cable sizes mm
04.564.00	600	cable cutter up to 6 mm	1.5/2/2.5/3/4/5
04.564.01	760	-	4/6/8

Splicing pliers, key version

Uses sleeves model 04.566.xx and 04.569.xx; ideal for boat competitors due to its small size and its easy handling.

Code	Model	For cable sizes mm
04.568.00	universal	1.5/2/2.5/3/4/5/6*

* *6 mm only aluminium*



► Cable cutters, shroud cutters and tensometers

FELCO cable cutters

Suitable for cutting steel cables and rods; ideal as work tools in the shop or in dockyards or as emergency tools for sail boats.

Code	Handles	For S.S. cables up to mm	For rod up to mm	Length mm	kg
04.567.06	plastify iron	5	3	190	0.27
04.567.12	aluminium	8	6	500	1.50
04.567.16	aluminium	16	8	630	2.30

◢ 04.567.06

◢ 04.567.12

◢ 04.567.16

LOOS Rig tension gauges

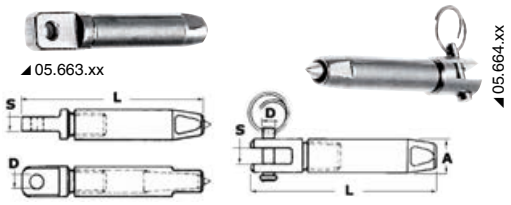
Suitable for checking the exact shroud tension; made of **aluminium and stainless steel**, very practical and easy to use.

Code	Model	For flexible cables size mm	For rigid plate mm	Version
04.572.90	Standard	2.5/3/4	-	-
04.572.91	Standard	5/6/7	-	-
04.573.01	Professional	2.5/3/4	-	PT1
04.573.02	Professional	5/6/7	-	PT2
04.573.03	Professional	8/9/10	-	PT3
04.574.01	Professional	-	7/10	RT1

◢ 04.572.90/91

◢ 04.573.01/02/03; 04.574.01

► Terminals and hooks



Terminals made of AISI 316 stainless steel for PARAFIL cables

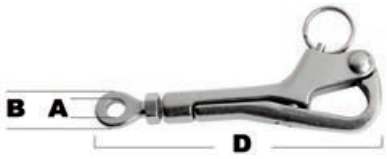
Terminals used to create stanchion stays. For Parafil cables.

Code	Version	Line Ø mm	S mm	D mm	L mm	A mm
05.663.07	With eye	7	6.5	6.1	74	11
05.663.09	With eye	9	7	6.1	74	14
05.664.07	With eye	7	6	4.5	75	11
05.664.09	With eye	9	6	4.5	76	14

Terminals for stainless steel lifelines

Easy installation in a matter of seconds, fitted with stainless steel side socket-head screws.

Code	Version	For plastic-coated cables Ø mm	For bare cables Ø mm
05.662.06	With eye	6	5/6
05.662.08	With eye	8	7/8
05.762.06	With fork	6	5/6
05.762.08	With fork	8	7/8



Pelican hook shackle for openable guardrails

Made of **stainless steel**, fitted with self-regulator, can be used with 6/8 mm rigging screws or mounted directly on the line.

Code	A mm	B mm	D opened mm	D closed mm
05.146.00	6.5	13.5	120	95

Stainless steel terminal with T coupling

Press-fitting on stainless steel cables.

Code	For cables Ø mm
05.192.03	3
05.192.04	4
05.192.05	5
05.192.06	6
05.192.08	8
05.192.10	10

Stainless steel plate

With raised oval bore. For coupling on t terminals.

Code	For hooking T termiansl model	Cable Ø mm	⟷ mm
05.196.03	**05.192.03**	2/3	50x15
05.196.05	**05.192.04; 05.192.05**	4/5	88x26
05.196.06	**05.192.06**	6/7	123x38
05.196.08	**05.192.08; 05.192.10**	8/10	151x38

Pelican hook shackles,openable

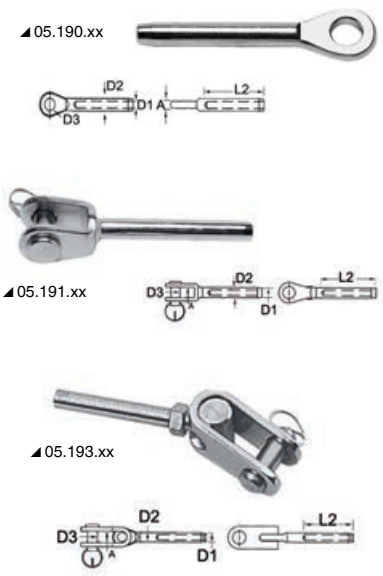
Made of mirror polished **stainless steel**, includes press-fitting stay terminal.

Code	S.S. Cable Ø mm	Coated	Thread mm
05.283.01	3	3x6	6
05.283.02	4	4x7/8	6
05.283.04	4	4x7/8	8
05.283.03	5	5x10	8

Press-fitting terminals made of AISI316 stainless steel

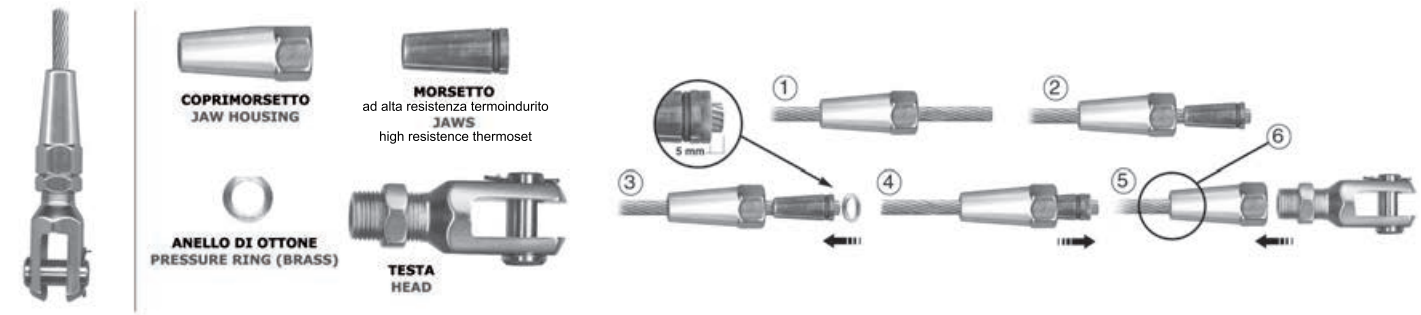
To be applied on the end of steel wire cables and to make shrouds, forestays, etc.

Code	Version	Ø cable size mm	D3 mm	D1 mm	D2 mm	L2 mm	A mm
05.190.25	Eye	2.5	5.5	2.5	5.5	32	3
05.190.03	Eye	3	6.5	3.5	6.35	38	4
05.190.04	Eye	4	8.5	4.4	7.5	45	5
05.190.05	Eye	5	10.5	5.3	9	51	6
05.190.06	Eye	6	13	6.3	12.5	64	8
05.190.07	Eye	7	13	7.5	14.3	70	9
05.190.08	Eye	8	14.5	8.4	16	83	10
05.190.10	Eye	10	16.3	10.5	17.8	89	11
05.190.12	Eye	12	19.3	12.5	21.4	105	15
05.191.25	Toggle	2.5	5	2.5	5.5	32	-
05.191.03	Toggle	3	5	3.5	6.35	38	-
05.191.04	Toggle	4	8	4.4	7.5	45	-
05.191.05	Toggle	5	10	5.3	9	51	-
05.191.06	Toggle	6	12	6.3	12.5	64	-
05.191.08	Toggle	8	12	8.4	16	83	-
05.191.10	Toggle	10	16	10.5	17.8	89	-
05.191.12	Toggle	12	19	12.5	21.4	105	-
05.193.03	Swivel toggle	3	6.3	3.5	6.35	38	-
05.193.04	Swivel toggle	4	8	4.4	7.5	45	-
05.193.05	Swivel toggle	5	9.5	5.3	9	51	-
05.193.06	Swivel toggle	6	11	6.3	12.5	64	-



► AISI 316 stainless steel terminals, Danish system

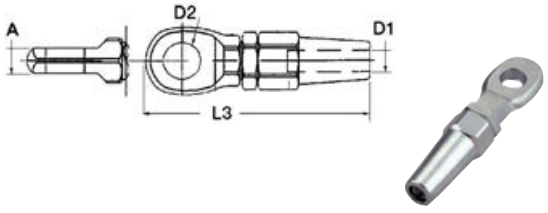
Fast and simple installation by placing the steel cable into the hole.



Eyelet terminals

To be used with AISI316 stainless steel 19/49/133-wire ropes.

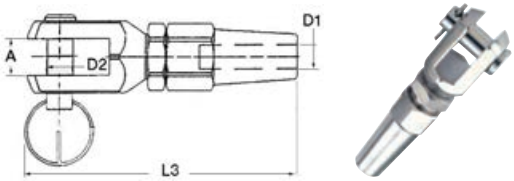
Code	For cables mm	L3 mm	A mm	D1 mm	D2 mm	Break load kg
05.219.03	3	58	6	3	6.5	700
05.219.04	4	68	7	4	8.3	1500
05.219.05	5	78	8	5	10.3	2180
05.219.06	6	94	9	6	12.3	3700
05.219.08	8	116	10.5	8	14.3	5600
05.219.10	10	131	13	10	16.3	8300
05.219.12	12	155	15	12	19.5	12000



Fork terminals

To be used with AISI316 stainless steel 19/49/133-wire ropes.

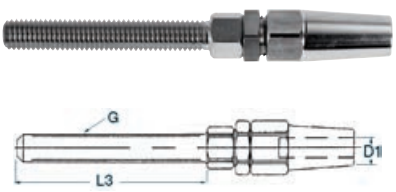
Code	For cables mm	L3 mm	A mm	D1 mm	D2 mm	Break load kg
05.408.03	3	63	6	3	6	700
05.408.04	4	73	8	4	8	1550
05.408.05	5	80	10	5	10	2180
05.408.06	6	92	12	6	12	3700
05.408.08	8	113	14	8	14	5600
05.408.10	10	131	16	10	16	8300



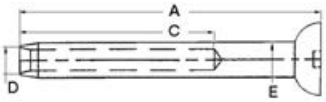
Terminals for fitting into tensioners with right metric screw threads

To be used with AISI316 stainless steel 19/49/133-wire ropes.

Code	For cables mm	L3 mm	D1 mm	G metric mm	Break load kg
05.004.06	3	47	3	6	700
05.004.08	4	57	4	8	1500
05.004.10	5	63	5	10	2180
05.004.12	6	80	6	12	3700
05.004.14	8	89	8	14	5600
05.004.16	10	100	10	16	8300

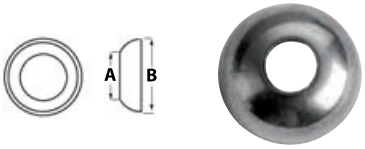


Press-fitting cable terminals with ball head, made of AISI 316 stainless steel



Code	Cable Ø mm	A mm	C mm	D mm	E mm
05.200.04	4	69	45	4.4	7.5
05.200.05	5	79	51	5.3	9
05.200.06	6	90	64	6.5	12.58
05.200.07	7	94	70	7.5	14.2
05.200.08	8	116	83	8.4	16

Terminal slots made of stainless steel



Code	Cable Ø mm	A mm	B mm
05.201.04	3/4	9	26
05.201.05	5	11.2	26
05.201.07	6/7	16	26
05.201.12	8/10	20	34

► Lifeline accessories, thimbles

AISI316 stainless steel base plate

For deck mounting of stainless steel cast lifelines. Extra sturdy.

Code	Eye mm	⟷ mm
05.860.87	10	62x38

◢ 05.326.xx

◢ 05.327.xx

Stainless steel thimbles

To prevent eye splicings from chafing on ropes or stainless steel cables.

Mirror-polished stainless steel (standard version)	(standard version)	(heavy version)	(heavy version)	⟷ mm	ORDER BY BOX
05.326.02		-		2	10
05.326.25		-		2.5	10
05.326.03		-		3	10
05.326.04		-		4	10
05.326.05		-		5	10
05.326.06		-		6	10
05.326.08		-		8	10
05.326.10		-		10	10
05.326.12		-		12	10
05.326.14		-		14	10
05.326.16	(60 g)	05.327.16	(125 g)	16	-
05.326.18	(78 g)	05.327.18	(156 g)	18	-
05.326.20	(110 g)	05.327.20	(266 g)	20	-
05.326.22	(184 g)	05.327.22	(326 g)	22	-
05.326.24	(224 g)	05.327.24	(505 g)	24	-
-		05.327.28	(590 g)	28	-
-		05.327.30	(930 g)	30/32	-
-		05.327.34	(1320 g)	34/38	-
-		05.327.40	(2085 g)	40	-

Nylon thimble

To prevent eye splicings from chafing on fabric or stainless steel cables.

White nylon	⟷ mm	ORDER BY BOX
05.328.04	4	20
05.328.05	5	20
05.328.06	6	10
05.328.08	8	10
05.328.10	10	10
05.328.12	12	20
05.328.14	14	10
05.328.15	15/16	10
05.328.18	18	10
05.328.20	20	10
05.328.22	22	10
05.328.24	24	10

Douglas Marine

bik® thimble made of elastomer

PATENT

Made of special black elastomer.
For elastic mooring, they avoid the mooring line to undergo stresses.

Code	Per lines Ø mm	Elastic load kg	Colour
05.380.12	12-14	160	Black
05.380.16	16-18	250	Black
05.380.20	20-22	500	Black

Marlow

BLUE OCEAN DOCKLINE

Cima realizzata al 100% da bottiglie di plastica reciclate
Manufactured from 100% waste plastic bottles

Il suo metodo di tessitura ricalca gli attributi della Marlow Dockline come alta resistenza all'abrasione ed assorbimento di ogni strattonamento. Questo abbinando un tocco morbido ed alta flessibilità senza alcuna perdita di carico o restringimento.

The unique construction offers the same popular attributes as Marlow's regular Dockline, including good abrasion resistance and shock absorption with soft and supple flexibility and zero strength loss or shrinkage.

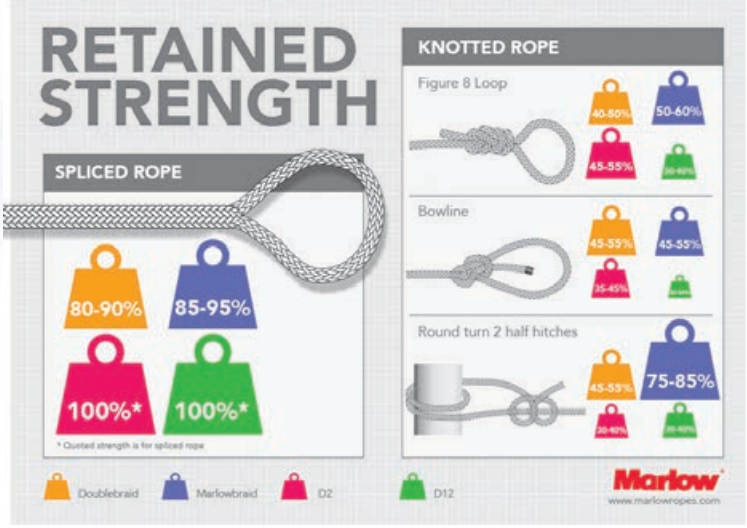
Pag. 86

► MARLOW rope splicing

Marlow

A splice is a way of terminating a rope or joining two ends of rope together without using a knot.
Apart from being bulky, even a correctly tied knot can cause significant loss of strength to a rope.
Choose how to splice your MARLOW rope to meet your requirements. Exploit your product performance to the utmost.

Here is a splicing guide showing all possible splicing options depending on the rope model.



MARLOW Mattbraid rope

CRUISING Soft-spun polyester rope.

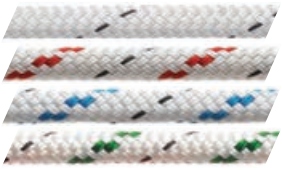
Ideal for: all types of sheets (cruising), jib furlers, reefs.

Features: soft and easy to use, excellent control even when wet.

Core: 12-strand polyester.

Cover: soft-spun 24-plait polyester.

White	Blue	Red	Black	Green	Ø mm	Breaking load kg	Weight kg/100 m	m
06.434.04BI	06.435.04BL	06.435.04RO	06.435.04NE	06.435.04VE	4	293	1.3	200
06.434.05BI	06.435.05BL	06.435.05RO	06.435.05NE	06.435.05VE	5	415	2	200
06.434.06BI	06.435.06BL	06.435.06RO	06.435.06NE	-	6	600	2.8	200
06.434.08BI	06.435.08BL	06.435.08RO	06.435.08NE	-	8	1120	5.4	200
06.434.10BI	06.435.10BL	06.435.10RO	06.435.10NE	-	10	1980	7	200
06.434.12BI	06.435.12BL	06.435.12RO	06.435.12NE	-	12	2810	9.9	200
06.434.14BI	06.435.14BL	06.435.14RO	06.435.14NE	-	14	3300	12.6	100
06.434.16BI	-	-	-	-	16	5430	17.8	100
06.434.18BI	-	-	-	-	18	7900	24.4	100



MARLOW Doublebraid white rope with fleck

CRUISING White polyester braid with fleck.

Ideal for: all types of sheets (cruising), jib furlers, reefs, general purposes.

Features: soft and easy to use; easy to grip and knot.

Core: 12-strand polyester.

Cover: high-strength 24-plait polyester.

Fleck colour			Solid colour	Ø mm	Breaking load kg	Weight kg/100 m	m
Blue	Red	Green	White				
06.428.06BL	06.428.06RO	06.428.06VE	06.428.06BI	6	1390	2.8	200
06.428.08BL	06.428.08RO	06.428.08VE	06.428.08BI	8	2560	4.8	200
06.428.10BL	06.428.10RO	06.428.10VE	06.428.10BI	10	3690	7.4	200
06.428.12BL	06.428.12RO	06.428.12VE	06.428.12BI	12	4760	11.1	200
06.428.14BL	06.428.14RO	06.428.14VE	06.428.14BI	14	6050	15.6	100
06.428.16BL	06.428.16RO	-	06.428.16BI	16	7230	23.2	100

MARLOW Marlowbraid rope, solid colour

CRUISING Polyester braid.

Ideal for: halyards(cruising), vang; up/downhaul, low-stretch sheets.

Features: good resistance to elongation; easy to splice.

Core: 3-strand polyester.

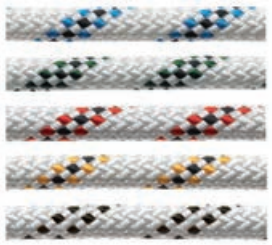
Cover: high-strength 16-plait polyester.

Blue	Red	Green	White	Blue navy	Ø mm	Breaking load kg	Weight kg/100 m	m
06.427.06BL	06.427.06RO	06.427.06VE	-	-	6	986	2.7	200
06.427.08BL	06.427.08RO	06.427.08VE	06.427.08BI	06.427.08BN	8	1580	4.5	200
06.427.10BL	06.427.10RO	06.427.10VE	06.427.10BI	06.427.10BN	10	2850	7.3	200
06.427.12BL	06.427.12RO	06.427.12VE	06.427.12BI	06.427.12BN	12	4450	10	200
-	06.427.14RO	-	06.427.14BI	06.427.14BN	14	5460	14.5	200

MARLOW Marlowbraid white rope with fleck

CRUISING

Polyester braid.
Ideal for: halyards (cruising), vangs, up/downhaul, low-stretch sheets.
Features: good elongation resistance, it can be sliced.
Core: 3-strand polyester.
Cover: high-resistance16-plait polyester.



Fleck colour					Ø mm	Breaking load kg	Weight kg/100 m	m
Blue	Gold	Red	Green	Black				
06.432.06BL	06.432.06OR	06.432.06RO	06.432.06VE	06.432.06NE	6	986	2.7	200
06.432.08BL	06.432.08OR	06.432.08RO	06.432.08VE	06.432.08NE	8	1580	4.5	200
06.432.10BL	06.432.10OR	06.432.10RO	06.432.10VE	06.432.10NE	10	2850	7.3	200
06.432.12BL	06.432.12OR	06.432.12RO	06.432.12VE	06.432.12NE	12	4450	10	200
06.432.14BL	-	06.432.14RO	06.432.14VE	-	14	5460	14.5	100
06.432.16BL	06.432.16OR	06.432.16RO	06.432.16VE	-	16	7420	19	100

MARLOW D2 Competition 78 braid with fleck

CRUISING

Ideal for: halyards, sheets, vangs, downhauls, multiple applications, etc.
Suitable for: top-level cruising or club regattas, it is a compromise between the D2 Racing professional braid and the Marlowbraid.
Core: 12-strand Dyneema SK78.
Cover: high-strength 16-plait polyester.

CAN BE SPLICED

WITH Dyneema®

D2 Competition with fleck			Ø mm	Breaking load kg	Weight kg/100 m	m
Blue	Red	White				
06.433.08BL	-	06.433.08BI	8	2025	4.93	200
06.433.10BL	06.433.10RO	06.433.10BI	10	3487	7.63	200
06.433.12BL	06.433.12RO	06.433.12BI	12	5360	9.71	200

MARLOW Doublebraid Marble Colour rope

CRUISING

Polyester braid in bright colors.

SPORT BOAT

Ideal for : Sheets (cruising), jib furlers, reefs, general purposes.

Features: Soft and easy to use, easy to grip and knot.

Core: 12-strand polyester.

Cover: high-strength 24-plait polyester.

MADE FROM 100% RECYCLED PLASTIC

◢ Temporarily valid for black and grey

CAN BE SPLICED

Blue	Red	Green	Grey	Black	Ø mm	Breaking Load kg	Weight kg/ 100m	m
06.423.06BL	06.423.06RO	06.423.06VE	06.423.06GR	06.423.06NE	6	1390	2.84	200
06.423.08BL	06.423.08RO	06.423.08VE	06.423.08GR	06.423.08NE	8	2560	4.80	200
06.423.10BL	06.423.10RO	06.423.10VE	06.423.10GR	06.423.10NE	10	3690	7.47	200
06.423.12BL	06.423.12RO	06.423.12VE	06.423.12GR	06.423.12NE	12	4760	11.10	200
06.423.14BL	06.423.14RO	06.423.14VE	06.423.14GR	06.423.14NE	14	6050	15.60	100

MARLOW 3-Strand Pre-Stretched rope

CLASSIC

3-strand pre-stretched polyester rope.
Ideal for: small and medium boat halyards (cruising), LAZY JACK, general purposes.
Features: 100% abrasion-resistant and UV-resistant. It doesn't absorb water.
Core: continuous polyester.

White	Ø mm	Breaking load kg	Weight kg/100m	m
06.431.05	5	1030	2.07	200
06.431.06	6	1690	3.06	200
06.431.08	8	2180	4.81	200
06.431.10	10	2640	8.23	200
06.431.12	12	3340	10.7	100

Marlow

06.429.xx

06.430.xx

WITH Dyneema®

CAN BE SPLICED

MARLOW D2 Racing 78 braid (with fleck) and Classic rope (solid colour)

HIGH PERFORMANCE

RACING

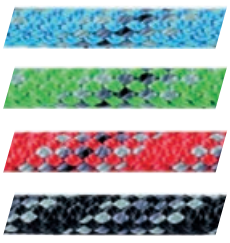
Ideal for: halyards, low-stretch sheets, reefs, multiple professional applications.

Features: floating, stretch-resistant, easy to splice, the cover can be removed.

Core: 12-strand Dyneema SK78.

Cover: high-strength 24-plait polyester.

D2 RACING with fleck					D2 CLASSIC solid colours		Ø mm	Breaking load kg	Weight kg/100 m	m
Black	Blue	Yellow	Red	Green	White	Blue Navy				
06.429.08NE	06.429.08BL	06.429.08LI	06.429.08RO	06.429.08VE	-	06.430.08BN	8	3490	3.9	100
06.429.10NE	06.429.10BL	06.429.10LI	06.429.10RO	06.429.10VE	06.430.10BI	06.430.10BN	10	5360	5.92	100
06.429.12NE	06.429.12BL	06.429.12LI	06.429.12RO	06.429.12VE	06.430.12BI	06.430.12BN	12	6940	9.29	100
-	06.429.14BL	-	06.429.14RO	06.429.14VE	06.430.14BI	06.430.14BN	14	9274	11.66	100
-	06.429.16BL	-	06.429.16RO	-	06.430.16BI	06.430.16BN	16	12800	16.6	100



WITH Dyneema®

New D2 Club line

Ideal for: halyards, low-stretch sheets, reefs, multiple professional applications.

Features: floating, stretch-resistant, easy to splice, the cover can be removed.

Core: 12-strand Dyneema SK75 and polypropylene.

Cover: high-strength 16-plait polyester.

Blue	Green	Red	Black	Ø mm	Breaking load kg	Weight kg/100 m	m
06.477.08BL	06.477.08VE	06.477.08RO	06.477.08NE	8	2480	4.00	200
06.477.10BL	06.477.10VE	06.477.10RO	06.477.10NE	10	3970	6.43	200
06.477.12BL	06.477.12VE	06.477.12RO	06.477.12NE	12	5950	8.64	200
06.477.14BL	06.477.14VE	06.477.14RO	06.477.14NE	14	7440	11.2	200

Marlow

MARLOW 8-Plait Pre-Stretched rope

ALL PORPUSE

8-Plait pre-stretched polyester rope.
Ideal for: sheets, spinnakers, downhauls, vangs, backstays and halyards.
Features: very compact and flexible line, excellent grip on cleats and camcleats, abrasion-resistant.
Core: twisted polyester.

White	Blue	Lime	Red	Ø mm	Breaking load kg	Weight kg/100 m	m
06.436.04BI	06.438.04BL	06.438.04LI	06.438.04RO	4	428	1.3	200
06.436.05BI	06.438.05BL	06.438.05LI	06.438.05RO	5	617	2.1	200
06.436.06BI	06.438.06BL	06.438.06LI	06.438.06RO	6	891	2.9	200
06.436.08BI	-	-	-	8	1410	5.5	200

Marlow

MARLOW Excel Pro rope

SPORT BOAT

DINGHY

Polyester braid.
Ideal for: sheets, up/downhauls, reefs, all dynamic purposes.
Features: quick sliding, flexible, bright colours.
Core: 3-strand polyester.
Cover: high-strength 16-plait polyester.

White	Blue	Lime	Red	Ø mm	Breaking load kg	Weight kg/100 m	m
06.465.02BI	06.465.02BL	06.465.02LI	06.465.02RO	2	110	0.27	200
06.465.03BI	06.465.03BL	06.465.03LI	06.465.03RO	3	202	0.60	200
06.465.04BI	06.465.04BL	06.465.04LI	06.465.04RO	4	377	1.07	200
06.465.05BI	06.465.05BL	06.465.05LI	06.465.05RO	5	702	2.15	200
06.465.06BI	06.465.06BL	06.465.06LI	06.465.06RO	6	986	2.68	200

MARLOW Excel PS12 braid without cover

SPORT BOAT

ALL PURPOSE

Ideal for: halyards, sheets, up/downhaul and cascade systems.
Characteristics: easy to splice when without cover. It can be spliced as leading rope on more performing ropes.
Material: 12-strand pre-stretched polyester.

Blue	Red	White	Ø mm	Breaking load kg	Weight kg/100 m	m
06.421.04BL	06.421.04RO	-	4	678	1.19	200
06.421.05BL	06.421.05RO	06.421.05BI	5	1080	1.91	200
06.421.06BL	06.421.06RO	-	6	1330	2.47	200

MARLOW Excel Racing braid

SPORT BOAT

RACING

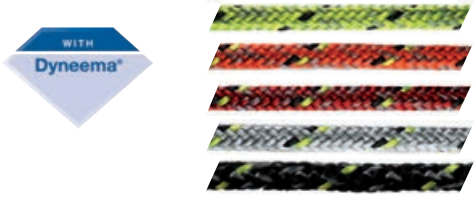
DINGHY

Ideal for: halyards, low-stretch sheets, reefs, multiple professional applications.

Features: floating, excellent stretch resistance, easy to splice, the cover can be removed.

Core: 12-strand Dyneema SK78.

Cover: high-strength 16-plait polyester.



Blue	Red	White	Black	Lime	Orange	Ø mm	Breaking load kg	Weight kg/100 m	m
06.429.15BL	06.429.15RO	-	-	06.429.15LI	-	1.5	139	0.17	100
06.429.02BL	06.429.02RO	-	-	06.429.02LI	-	2	224	0.29	100
06.429.03BL	06.429.03RO	06.429.03BI	06.429.03NE	06.429.03LI	06.429.03AR	3	463	0.58	100
06.429.04BL	06.429.04RO	06.429.04BI	06.429.04NE	06.429.04LI	06.429.04AR	4	995	1.24	100
06.429.06BL	06.429.06RO	06.429.06BI	06.429.06NE	06.429.06LI	06.429.06AR	6	2056	2.41	100

MARLOW Excel Fusion 78 braid with cover

SPORT BOAT

DINGHY

Braid with cover.
Ideal for: standard sheets and spinnaker sheets.
Characteristics: very light, it doesn't absorb water, reduced elongation, easy to splice, soft to touch despite its RACING technical characteristics. **Core:** pre-stretched Dyneema SK78.
Cover: pre-stretched Dyneema braided with soft polypropylene.

Blue	Red	Black	Ø mm	Breaking load kg	Weight kg/100 m	m
06.424.06BL	06.424.06RO	06.424.06NE	6	1088	1.7	100
06.424.08BL	06.424.08RO	06.424.08NE	8	1411	3.0	100
06.424.10BL	06.424.10RO	06.424.10NE	10	2472	4.4	100

MARLOW D12 braid without cover

HIGH PERFORMANCE

Braid without cover.
Ideal for: halyards, backstays, vangs, tackles, all dynamic applications.
Features: floating, lightweight, stretch resistant, top quality, quick and easy to splice, it doesn't absorb water, UV- and abrasion- resistant Marlow ArmourCoat.
Material: 12-strand Dyneema SK78 with anti-abrasion Marlow ArmourCoat.

Fleck colour				Ø mm	Breaking load kg	Weight kg/100 m	m
Blue	Black	Red	White				
06.426.25BL	06.426.25NE	06.426.25RO	-	2.5	569	0.37	200
06.426.30BL	06.426.30NE	06.426.30RO	-	3	995	0.53	200
06.426.40BL	06.426.40NE	06.426.40RO	06.426.40BI	4	2060	0.98	200
06.426.50BL	06.426.50NE	06.426.50RO	06.426.50BI	5	2360	1.28	200
-	06.426.60NE	06.426.60RO	06.426.60BI	6	3490	1.77	200
-	06.426.80NE	-	-	8	6330	5.70	200
-	06.426.10NE	-	-	10	9274	8.35	100

MARLOW Formuline Wind Surf Racing braid

WIND SURF

12-strand Dyneema SK75 braid to adjust the surf sail. Extremely light and resistant, it doesn't add unnecessary weight to the sails.

White	Black		Ø mm	Breaking load kg	Weight kg/100 m	m
06.422.04BI	06.422.04NE	New	3.8	619	0.89	100

MARLOW Kiteline Race / Freestyle braid

KITE Dyneema SK99 braid for kite surfing.

Black	Blue	Red	Yellow	Ø mm	Breaking load kg	Weight kg/100 m	m
06.418.11NE	06.418.11BL	06.418.11RO	06.418.11GI	1.5	360	0.15	100

MARLOW mini-reels

DERIVE **USI GENERICI/GENERAL USES**

Blister pack with product technical features and tips for use. Easy-to-display and low.cost: with a minimum investment you can get a vast range of ropes suitable for boats and other various purposes.

a) **EXCEL D 12** - with **Dyneema SK75 core. Ideal for**: mainsail halyards, jib and gennaker halyards, vangs, up/downhaul (standing rigging), assorted colours.

b) **8 PLATES-PES** - with **pre-stretched polyester core. Ideal for**: gennaker and spi sheets, assorted colours.

EXCEL D12	Ø mm	8 PLATES-PES	Ø mm	Length m
06.426.31	3	06.465.31	3	17
06.426.26	2.5	06.465.21	2	30

► Marlow cut-to-length ropes (length upon request)

D2 Racing 78 halyard and sheet (similar to 06.429.xx)

HIGH PERFORMANCE

Ideal for: halyards, low-stretch sheets, reefs, multiple professional applications.

Features: floating, excellent stretch resistance, easy to splice, the cover can be removed.

Core: 12-strand Dyneema SK78.

Cover: high-strength 16-plait polyester.

Red	Blue	Yellow	Ø mm
06.419.08RO	06.419.08BL	06.419.08GI	8
06.419.10RO	06.419.10BL	06.419.10GI	10
06.419.12RO	06.419.12BL	06.419.12GI	12

EXCEL D12 DSK 78 braid with no cover (similar to 06.426.xx)

HIGH PERFORMANCE

Braid with no cover.

Ideal for: halyards, backstays, vangs, tackles, all dynamic applications.

Features: floating, lightweight, stretch resistant, top quality, quick and easy to splice, it doesn't absorb water, UV- and abrasion-resistant Marlow ArmourCoat.

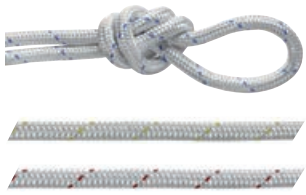
Material: 12-strand Dyneema SK78 with anti-abrasion Marlow ArmourCoat.

Black	Ø mm
06.416.03NE	3
06.416.04NE	4
06.416.05NE	5

► Ropes and sheets

Low-stretch polyester braid

High-strength 3-strand core, white with coloured fleck. This braid **doesn't float**. Sold in reels.



Code	Ø mm	Breaking load kg	m
06.441.04	4	250	200
06.441.05	5	300	200
06.441.06	6	450	200
06.441.08	8	750	200
06.441.10	10	1100	200

Code	Ø mm	Breaking load kg	m
06.441.12	12	1700	150
06.441.14	14	2000	100
06.441.16	16	2400	100
06.441.18	18	2700	100
06.441.20	20	3400	100

High-resistance polypropylene braid

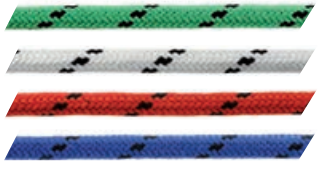
Polyester core, **bright** colours. Sold in reels.

◢ 06.420.xxGI

Yellow	Fuchsia	Blue	Green	Red	Ø mm	m
06.420.02GI	06.420.02FU	06.420.02BL	06.420.02VE	06.420.02RO	2	500
06.420.03GI	06.420.03FU	06.420.03BL	06.420.03VE	06.420.03RO	3	500
06.420.04GI	06.420.04FU	06.420.04BL	06.420.04VE	06.420.04RO	4	200
06.420.05GI	06.420.05FU	06.420.05BL	06.420.05VE	06.420.05RO	5	200
06.420.06GI	06.420.06FU	06.420.06BL	06.420.06VE	06.420.06RO	6	200
06.420.08GI	06.420.08FU	06.420.08BL	06.420.08VE	06.420.08RO	8	200
06.420.10GI	06.420.10FU	06.420.10BL	06.420.10VE	06.420.10RO	10	200
06.420.12GI	06.420.12FU	06.420.12BL	06.420.12VE	06.420.12RO	12	200

High-strength polyester sheet

Antislip, MATT finish with low-elongation 3-strand core. Sold in reels.



◢ 06.437.xxBL

Blue	Red	White	Yellow	Green	Ø mm	Breaking load kg	m
06.437.06BL	06.437.06RO	06.437.06BI	06.437.06GI	06.437.06VE	6	500	200
06.437.08BL	06.437.08RO	06.437.08BI	06.437.08GI	06.437.08VE	8	700	200
06.437.10BL	06.437.10RO	06.437.10BI	06.437.10GI	06.437.10VE	10	1150	200
06.437.12BL	06.437.12RO	06.437.12BI	06.437.12GI	06.437.12VE	12	1300	150
06.437.14BL	06.437.14RO	06.437.14BI	06.437.14GI	06.437.14VE	14	1500	130
06.437.16BL	-	06.437.16BI	-	06.437.16VE	16	1700	100

Double braid made of high-strength low-elongation polyester

Specific for **sheets**. Sold in reels.

Fleck			Ø mm	Breaking load kg	m
Yellow - Blue	Yellow - Red	Green - Red			
06.447.06	06.457.06	06.456.06	6	800	200
06.447.08	06.457.08	06.456.08	8	1200	200
06.447.10	06.457.10	06.456.10	10	1700	150
06.447.12	06.457.12	06.456.12	12	2100	150
06.447.14	06.457.14	06.456.14	14	2650	100

Double braid made of high-strength low-elongation polyester

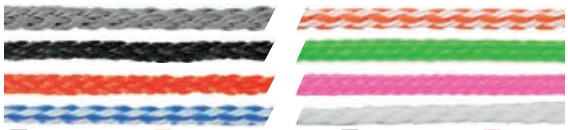
Coloured cover with contrasting fleck. Ideal for **sheets**. Sold in reels.

Blue	Yellow	Red	Green	Ø mm	Breaking load kg	m
06.474.04	06.475.04	06.473.04	06.476.04	4	180	200
06.474.06	06.475.06	06.473.06	06.476.06	6	800	200
06.474.08	06.475.08	06.473.08	06.476.08	8	1200	200
06.474.10	06.475.10	06.473.10	06.476.10	10	1700	150
06.474.12	06.475.12	06.473.12	06.476.12	12	2100	150
06.474.14	06.475.14	06.473.14	06.476.14	14	2650	100

Double braid for Dyneema sheets

Dyneema SK75 braid core, 16-plait high-strength polyester cover. High-strength, low-elongation and lightweight professional braid. **White** with coloured flecks. Sold in reels.

Fleck			Ø mm	Breaking load kg	m
Blue	Yellow	Red			
06.460.02	06.461.02	06.459.02	2	220	100
06.460.03	06.461.03	06.459.03	3	420	100
06.460.04	06.461.04	06.459.04	4	550	100
06.460.06	06.461.06	06.459.06	6	1300	100
06.460.08	06.461.08	06.459.08	8	2100	100
06.460.10	06.461.10	06.459.10	10	3000	100
06.460.12	06.461.12	06.459.12	12	4000	100
-	06.461.14	06.459.14	14	5000	100



Floating levilene braid

High strength, reduced elongation, easy to handle. Sold in reels.

White	Orange	White-orange	Pink (fluo color)	Grey	Lime (fluo color)	Black	Ø mm	Breaking load kg	m
06.445.06BI	06.445.06AR	-	-	-	-	06.445.06NE	6	200	200
-	-	06.445.07BA	06.445.07FU	-	06.445.07LI	-	7.5	300	200
06.445.08BI	06.445.08AR	-	-	-	-	06.445.08NE	8	350	200
06.445.10BI	06.445.10AR	-	-	-	-	06.445.10NE	10	600	200
06.445.12BI	06.445.12AR	-	-	06.449.12	-	06.445.12NE	12	800	200
06.445.14BI	-	-	-	06.449.14	-	-	14	900	130
-	-	-	-	-	-	06.445.14NE	14	900	150
06.445.16BI	-	-	-	-	-	06.445.16NE	16	1000	100

► Mooring lines and fenders

High-strength 3-strand polyester line

ALTA TENACITÀ / HIGH-STRENGTH

Double-torsion 3-strand line. This line doesn't float. Sold in reels.

Colour.						Ø mm	m
White	Breaking load kg	Blue	Grey	Black	Breaking load kg		
06.440.06	530	06.453.06	-	06.450.06	430	6	200
06.440.08	900	06.453.08	-	06.450.08	700	8	200
06.440.10	1300	06.453.10	06.454.10	06.450.10	1100	10	200
06.440.12	2000	06.453.12	06.454.12	06.450.12	1600	12	200
06.440.14	2700	06.453.14	06.454.14	06.450.14	2150	14	100
06.440.16	3600	06.453.16	06.454.16	06.450.16	3000	16	100
06.440.18	4700	06.453.18	-	06.450.18	3850	18	100
06.440.20	5200	06.453.20	-	06.450.20	4200	20	100
06.440.22	5800	06.453.22	-	06.450.22	4700	22	100
06.440.24	6750	06.453.24	-	06.450.24	5500	24	100
06.440.28	7800	06.453.28	-	06.450.28	7000	28	100
06.440.32	8700	06.453.32	-	06.450.32	9100	32	100
06.440.36	11100	-	-	06.450.36	10600	36	100
06.440.40	13500	-	-	06.450.40	14000	40	100

MARLOW mooring lines

ORMEGGIO DOCKING

High-strength 3-strand polyester.

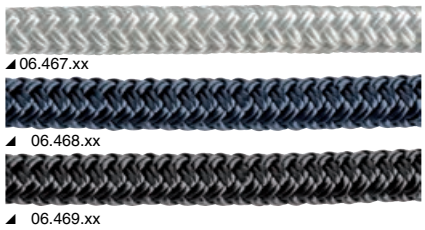
White	Blue	Black	Ø mm	Breaking load kg	m
06.472.06	06.484.06	06.482.06	6	951	200
06.472.08	06.484.08	06.482.08	8	1465	200
06.472.10	06.484.10	06.482.10	10	2570	200
06.472.12	06.484.12	06.482.12	12	3170	200
06.472.14	06.484.14	06.482.14	14	3930	100
06.472.16	06.484.16	06.482.16	16	4766	100
06.472.18	06.484.18	06.482.18	18	6600	100
06.472.20	06.484.20	06.482.20	20	9230	100
06.472.24	06.484.24	06.482.24	24	11210	100
06.472.28	06.484.28	06.482.28	28	14640	100

Double braid made of soft-spun high-strength polyester, 16 x 5- to 16-mm Ø strands, 24 x 18- to 24-mm Ø strands.

ALTA TENACITÀ / HIGH-STRENGTH

For mooring and sheets. Sold in reels.

Colour. White	Breaking load kg	Colour Blue	Colour Black	Breaking load kg	Ø mm	m
06.467.05	350	06.468.05	06.469.05	350	5	200
06.467.06	500	06.468.06	06.469.06	500	6	200
06.467.08	800	06.468.08	06.469.08	720	8	200
06.467.10	1440	06.468.10	06.469.10	1200	10	200
06.467.12	2040	06.468.12	06.469.12	1800	12	200
06.467.14	2300	06.468.14	06.469.14	2000	14	100
06.467.16	2840	06.468.16	06.469.16	2500	16	100
06.467.18	4460	06.468.18	06.469.18	4000	18	100
06.467.20	5250	06.468.20	06.469.20	4500	20	100
06.467.24	7950	06.468.24	06.469.24	6800	24	100



Square Line braid made of high-strength 8-strand polyester

Ideal for **mooring lines**. Very easy to splice, sturdy and handy. Sold in reels.

White	Blue	Black	Ø mm	Breaking load kg	m
06.448.12	06.458.12	06.478.12	12	2000	200
06.448.14	06.458.14	06.478.14	14	2500	200
06.448.16	06.458.16	06.478.16	16	3000	100
06.448.18	06.458.18	06.478.18	18	3900	100
06.448.20	06.458.20	06.478.20	20	4600	100
06.448.22	06.458.22	-	22	5500	100
06.448.24	06.458.24	06.478.24	24	6600	80

High-strength spliced mooring line

Made of **3-strand** high-strength polyester, fitted with stainless steel thimbles. **Spliced by hand.** Sold in reels.

Colour. White	Breaking load kg	Colour Blue	Colour Black	Breaking load kg	Ø mm	Length m
06.443.10	1300	-	-		10	6
06.443.11	2000	06.443.31	06.443.01	1600	12	6
06.443.12	2000	06.443.32	06.443.02	1600	12	9
06.443.13	2700	06.443.33	06.443.03	2150	14	8
06.443.14	2700	06.443.34	06.443.04	2150	14	12
06.443.15	3600	06.443.35	06.443.05	3000	16	8
06.443.16	3600	06.443.36	06.443.06	3000	16	12
06.443.19	5200	06.443.39	06.443.07	4200	20	8
06.443.20	5200	06.443.40	06.443.08	4200	20	12
06.443.24	6750	06.443.44	06.443.09	5500	24	15
06.443.28	8700	06.443.48	06.443.58	7000	28	15

OSCULATI

06.443.24

06.443.04

06.443.44

06.443.44

06.443.04

06.443.24

High-strength spliced mooring line, double braid

Made of **high-strength polyester double braid** fitted with stainless steel thimble. Spliced by hand.

Colour. White	Breaking load kg	Colour Blue	Colour Black	Breaking load kg	Ø mm	Length m
06.443.70	1440	06.443.80	06.443.90	1200	10	6
06.443.71	2040	06.443.81	06.443.91	1800	12	7
06.443.72	2300	06.443.82	06.443.92	2000	14	9
06.443.73	2840	06.443.83	06.443.93	2500	16	11
06.443.74	5250	06.443.84	06.443.94	4500	20	12
06.443.75	7950	06.443.85	06.443.95	6800	24	15

OSCULATI

06.443.73

06.443.73

06.443.83

06.443.83

06.443.93

06.443.93

High-strength spliced mooring line

Made of high-strength 8-strand polyester "Square Line" 06.458.xx, blue colour, fitted with stainless steel thimbles, spliced by hand.

Code	Ø mm	Length m
06.443.50	16	12 (actual line 12.50)
06.443.52	20	12 (actual line 12.50)
06.443.54	24	12 (actual line 15.50)

OSCULATI

High-strength eye-spliced mooring line

Made of high-strength polyester double braid with hand-spliced eye.

Colour. White	Breaking load kg	Colour Blue	Colour Black	Breaking load kg	Ø mm	Length m	Eye Ø cm
06.444.30	1400	**06.444.41**	**06.444.90**	1200	10	6	12
06.444.32	2040	**06.444.43**	**06.444.92**	1800	12	7	14
06.444.34	2300	**06.444.45**	**06.444.94**	2300	14	9	18
06.444.36	2840	**06.444.47**	**06.444.96**	2500	16	11	20
06.444.38	4500	**06.444.48**	**06.444.98**	4500	20	12	20
06.444.39	7950	**06.444.49**	**06.444.99**	6800	24	15	22

Marlow

MARLOW mooring lines - Blue Ocean

ORMEGGIO DOCKING **PRE-SPLICED**

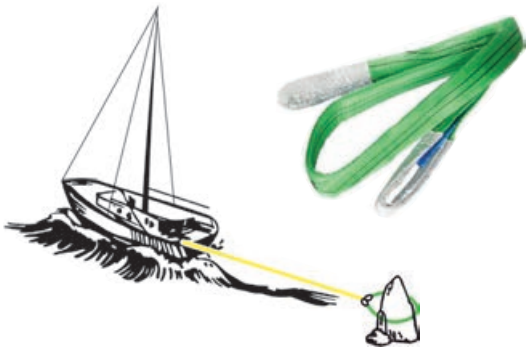
Pre-spliced line with 50-cm eyelet and yarn termination. Made with **100% recycled polyester bottles**. Every metre of line is made by recycling 7.5 plastic bottles.
Core: 12 x recycled polyester strands. **Cover**: 24 x recycled polyester plaits. Sold in reels.

Black	Ø mm	Breaking load kg	Weight kg/100 m	m
06.466.12	12	3610	9.94	6
06.466.14	14	4510	12.4	9
06.466.16	16	5860	16.2	12

High visibility floating mooring lines for anchorage to the ground

Polypropylene lines suitable for mooring in bays and with lines on the ground. Being floating, they make it easy to manage the boat and haul it onshore.
Slightly elastic, they serve as a mooring device. Yellow colour for high visibility to bathers and other boats.

Yellow	Ø mm	Breaking load kg	Weight kg/100 m	m
06.479.14	14	2124	8.9	200
06.479.18	18	3636	14.6	200
06.479.22	22	4950	21.9	200
06.479.26	26	6822	30.6	200



Straps ideal for mooring to the ground

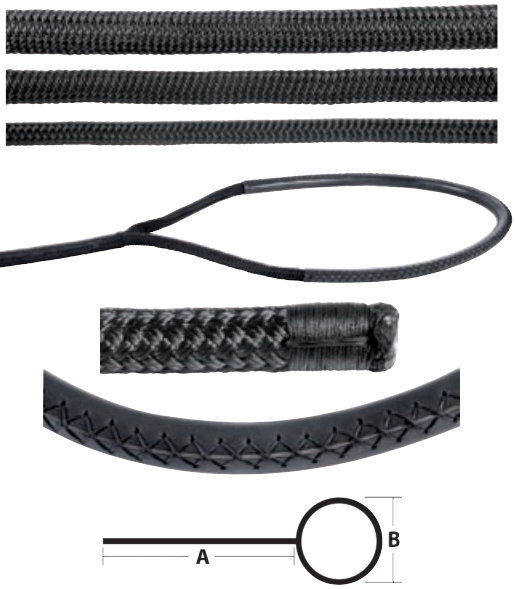
These straps are very resistant to abrasion and are ideal for mooring to rocks or to rings that might chafe the mooring lines.
Recommended for use with lines 06.479.xx.

Code	Colour	Length m	Breaking load kg	Tape height mm
06.480.02	purple	2.5	1000	65
06.480.04	green	3.5	2000	65

Megayacht double mooring braid

Made of high-strenght polyester. 3-strand double braid making ensuring softness, strength, rub resistance, anti-torsion effect, easier splicing. Sold in reels.

Code	Colour	Ø mm	Strands	Breaking load kg	m
06.470.24	Black	24	24	13000	100
06.470.28	Black	28	24	18000	100
06.470.32	Black	32	24	22400	100
06.470.36	Black	36	36	26000	100
06.470.40	Black	40	36	30500	100
06.470.44	Black	44	36	35000	100



Megayacht double braid with bowline

Coated in real leather sewn by hand. Line spliced end.

Code	Double braid Ø mm	A m	Ø B cm
06.471.01	24	20	70
06.471.02	28	24	70
06.471.03	32	28	70
06.471.04	36	32	70
06.471.05	40	36	70
06.471.06	44	40	70

Mooring double braid for Megayacht CUSTOM MADE

Manufacture service of custom-made mooring lines for megayachts.
Minimum order: 2 mooring lines (min. 50 metres of braid).
Diametres available: 24 to 44 mm.
Colours available: white, blue, black, gold.
The bowline can be covered in black leather.
Lead time: 21 days.
The double 3-strand braid is very soft, strong and resistant to chafing.
Prices on request.

Anchor rope made of polyester braid with lead core for the first 10 metres

With thimble and spliced by hand.
It comes in an elegant nylon bag with blue string.

Code	Ø mm	Length m	Lead core length m	Lead weight kg	Total weight kg
06.446.10	10	30	10	3	5
06.446.12	12	30	10	4	7.5

Pieces of polyester braid

White colour with fleck, pre-packed, with **splicing and nylon thimbles**.

Code	Ø mm	Length m
06.442.01	8	15
06.442.02	8	30
06.442.03	8	40

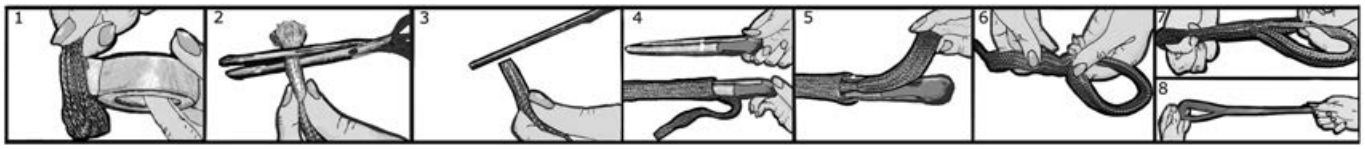
Code	Ø mm	Length m
06.442.04	10	15
06.442.05	10	30
06.442.06	10	40

32-strand polypropylene flat braid

Designed for fastening fenders.
Made without a core, easy to splice even for inexperienced boaters. Sold in reels.

White	Blue navy	Black	Gray	Nominal Ø mm	Flat braid mm	m
06.444.10	**06.444.20**	**06.444.80**	**06.444.70**	10	3.3 x 18	50
06.444.11	**06.444.21**	**06.444.81**	**06.444.71**	14	4.5 x 20	50
06.444.12	**06.444.22**	**06.444.82**	**06.444.72**	18	5.6 x 25	50

OSCULATI



OSCULATI

High-strength eye-spliced fender line

Polyester double braid with **hand-spliced eye**.

White	Blue	Black	Ø mm	Length m
06.444.46	06.444.59	06.444.54	6	1.5
06.444.50	06.444.60	06.444.55	8	1.5
06.444.51	06.444.61	06.444.56	10	2
06.444.52	06.444.62	06.444.57	12	2.5

Reels of high-strength polypropylene braid

Multipurpose product. Sold in reels.

Red	Blue	Green	Yellow	Ø mm	m
06.423.02RO	06.423.02BL	06.423.02VE	06.423.02GI	2	30
06.423.03RO	06.423.03BL	06.423.03VE	06.423.03GI	3	17
06.423.04RO	06.423.04BL	06.423.04VE	06.423.04GI	4	12

Nylon braids

Available in 100-m reels, 100% nylon, for general applications on board, splicing, sewing, etc.

Code	Ø mm
06.439.01	0.5
06.439.02	1
06.439.03	1.5
06.439.04	2

Spare braid for underwater rifles

Made of **stabilized polypropylene**. Sold in reels and not by the metre.

Ø mm			Colour	m
1.5	2	2.5		
06.409.15	06.409.20	06.409.25	Black	500

► Rope savers, accessories for ropes, handrail netting

OSCULATI

Rubbing strakes

AISI 316

To prevent mooring line chafing. Made of polished AISI316 stainless steel. Moulded and tapered.

Code	Length mm	Width mm
06.361.50	150	20
06.361.60	200	20
06.361.70	300	20
06.361.80	450	20
06.361.90	650	20
06.361.96	960	20
06.362.70	300	25
06.362.80	450	25
06.362.90	610	25

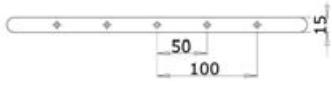
OSCULATI

D-shape profile

AISI 316

Rubbing strake to prevent mooring line chafing. Precision casting. Hidden-stud mounting.

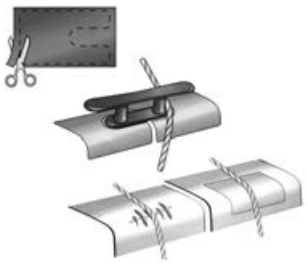
Code	Length mm	Width mm	Height mm	Stud Ø mm
06.368.30	300	15	15	5



Anti-chafe patches

Made of UV-resistant self-adhesive teflon, they can be cut to measure.
Gelcoat and paint are preserved.

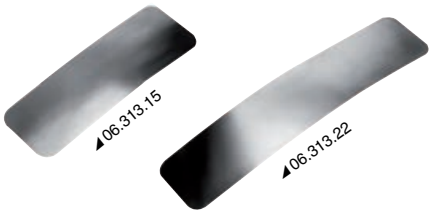
Code	Content
06.314.00	2 pcs - 125x150 mm (250 micron); 1 pcs - 100x125 mm (130 micron); 1 pcs - 75x125 mm (130 micron)



Adhesive anti-chafe SS sheets

Extra flexible stainless steel sheets to protect boat gelcoat and paint against any damage caused by rope chafing. Suitable to protect from chafing caused both by mooring and manoeuvering lines.
Made of stainless steel and provided with 3M VHB™ powerful adhesive tape. Gelcoat and paint are preserved

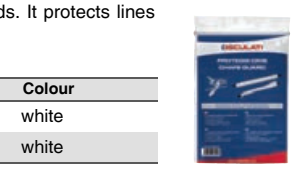
Code	Dimensions mm	Sheet No.	Material
06.313.15	150 x 50	1	SS
06.313.22	225 x 50	1	SS



Chafe guard

Made of **UV-resistant polyester. Hook&loop fastener** with straps on the ends. It protects lines against sharp fairleads or toerails on sail boats.

Code	For lines Ø mm	Length mm	Colour
06.452.01	12/16	450	white
06.452.02	18/22	450	white



Cordura chafe guard

Double-layer, high-resistance cordura with edgeband along the perimeter. Hook&loop fastener and anti-slid tapes. Accurate finish.

Colour		For lines Ø mm	Length mm
white	black		
06.316.01	06.317.01	12/16	600
06.316.02	06.317.02	18/24	600

06.317.01/02

SPIROLL chafe guard

Made of self-rolling polyurethane, it protects lines from chafing against the fairleads/hawseholes of the boat or against the rings/cleats of the dock. No need to undo splicing, etc. when mounting it.

Code	For line Ø mm	Length mm	Colour
06.453.01	8/16	400	black
06.453.02	16/25	600	black

Woollen chafe guard

Made of real wool for 14- to 22-mm Ø lines. 60-cm long. Hook&loop fastener and anti-slip tapes.
It prevents lines from chafing the hull (for example the fenders). **Sold in pairs.**

Code	For line Ø mm	Length cm	Colour
06.315.01	14/22	60	Black
06.315.02	14/22	60	White

Real leather chafe guards

Chafe guards made of real leather. Very elegant and practical.
Hook&loop fa stenerand anti-slip tapes.
They prevent mooring lines from getting worn and chafing the hull.
Sold in pairs.

Code	For line Ø mm	Length cm	Colour
06.455.01	16/24	50	Black
06.455.02	24/32	80	Black
06.455.03	34/42	100	Black

CADDY organizer for boat-to-dock electric cables and water hoses

Made of **sturdy dual-coated PVC**, 4-year warranty.

Blue	Black	Length mm	Recommended for hulls m
06.451.08	**06.451.10**	1000	8-14
06.451.09	**06.451.11**	1500	15-22

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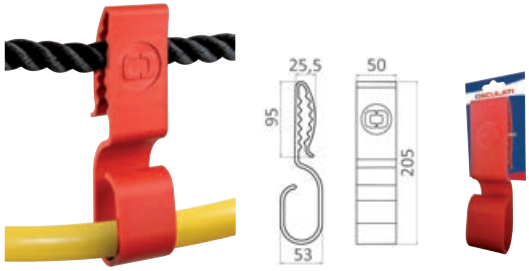
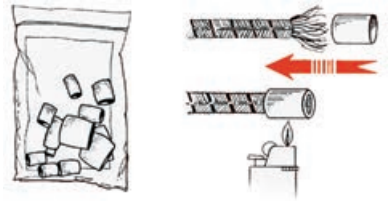


New Cable Hook

REGISTERED DESIGN / DISEGNO DEPOSITATO

Cable hook that lets through the power cord and the dock-to-boat water hose.
It design allows for quick fastening to the mooring line.
Very sturdy, UV- and sea water-resistant.

Code	For ropes Ø mm	⟷ mm
06.319.00	14-30	50x205x53



Heat-shrinkable white plastic terminals for lines

14-piece pack. Very fast usage and excellent results. The terminals may also be used as markings along the anchoring lines or along the sheets as point of reference.

Code	For line mm
06.202.00	5 to 13

Nylon stopper balls, various colours

Suitable for rope ends.

White	Blue	Yellow	Black	Red	Ø mm	For ropes Ø mm	ORDER BY BOX
06.281.00BI	**06.281.00BL**	**06.281.00GI**	**06.281.00NE**	**06.281.00RO**	18	4	10
06.282.00BI	**06.282.00BL**	**06.282.00GI**	**06.282.00NE**	**06.282.00RO**	26	6	10
06.283.00BI	**06.283.00BL**	**06.283.00GI**	**06.283.00NE**	**06.283.00RO**	32	8	10

Electric rope cutter

Suitable for cutting ropes easily and in a matter of seconds.

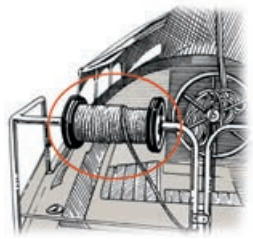
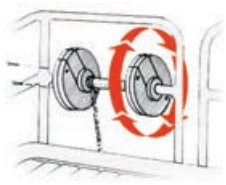
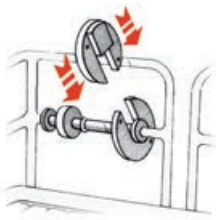
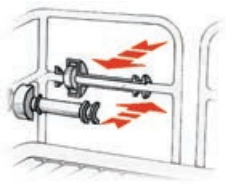
Code	volt	Rope size up to mm	Power
06.010.00	220	22	60 W

06.011.00 *Spare blade*

Line drum reel made of reinforced plastic

It can be easily mounted on the pulpit in **a matter of seconds**. Universal version.

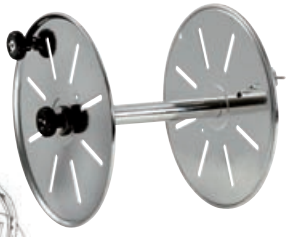
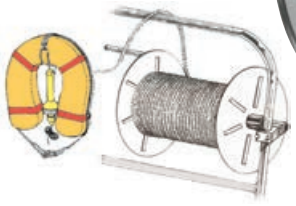
Code	For pipe Ø mm	Length mm	Ø mm	Maximum capacity
06.311.73	25/30	300	180	85 m of 8-mm Ø line

Line drum reel made of polished stainless steel

For mounting with **adjustable stainless steel** clamp to follow the angle of the pulpits.
Roller **adjustible** friction.

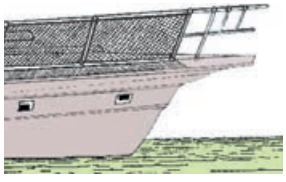
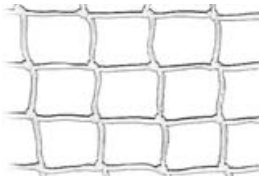
Code	Approx. capacity		Mounting on pipe Ø mm	Roll mm
	Ø 8 mm	Ø 10 mm		
06.311.75	200 m	140 m	22/28	250x290

Nylon handrail netting for pulpit or object holder

With hemming for easy installation. The height is real since it has square links.

Blue	White	Roll m	Real height cm
06.358.01	**06.348.01**	30	45
06.358.00	**06.348.00**	30	60

Nylon object holder net

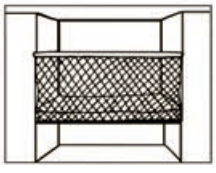
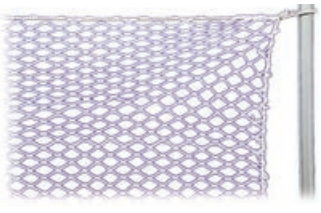
Fitted with mounting elastic bands and hooks.

Code	⟷ cm
06.331.01	30x20
06.331.02	40x20
06.331.03	20x75

Object holder net with chromed brass frame

Code	⟷ cm
06.332.01	34.5x22

Berth protection netting made of nylon

Fitted with mounting elastic bands.

Code	⟷ cm
06.330.00	200x60

► Straps, tapes and accessories

Polypropylene webbing band for hiking straps or other purposes

ideal for deck fastening of accessories such as buckles, plates, etc.

Colour				Roll m	Height mm
Orange	White	Black	Blue		
06.400.30AR	**06.400.30BI**	**06.400.30NE**	**06.400.30BL**	100	30
06.400.40AR	**06.400.40BI**	**06.400.40NE**	**06.400.40BL**	100	40
06.400.50AR	**06.400.50BI**	**06.400.50NE**	**06.400.50BL**	100	50

◢ 06.401.25

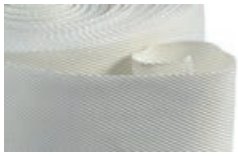
◢ 06.402.01/02/03

High-strength polyester webbing band

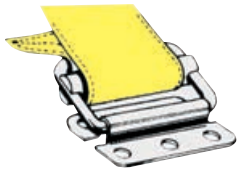
Very soft, UV-resistant, white colour.

Code	Ideal for	Width mm	Breaking load kg	Roll m
06.401.25	Life-line	25	2000	50
06.402.01	mounting and lifting	135	7500	50
06.402.02	mounting and lifting	165	9000	50
06.402.03	mounting and lifting	200	11000	50

◢ 06.401.25



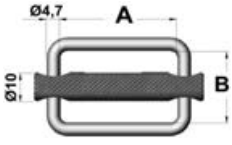
◢ 06.402.01/02/03



Stainless steel buckles

Black nylon sliders. For multiple purposes. **Open**-type version.

Code	For straps up to mm	Max load kg	OPTIONAL fixing plate
06.706.30	30	140	-
06.706.40	40	140	-
06.706.50	50	140	**06.707.00**



Stainless steel buckle with slider

High resistance. Suitable for fastening liferafts.

Code	For straps up to mm	Max load kg	A mm	B mm	OPTIONAL fixing plate	ORDER BY BOX
06.709.25	25	900	26	24	-	10
06.709.40	40	900	41	25	-	10
06.709.50	50	900	52	27	**06.707.00**	10

Stainless steel buckle to be sewn

For multiple applications: awnings, cushions, belt adjustment, etc. With spring lock.

Code	For straps up to mm	Max load kg	Version
06.441.33	25	500	runner to be sewn in strap

White plastic buckle

For multiple purposes: awnings, cushions, belt adjustment, etc.

Code	For straps up to mm	Version
06.441.30	30	for hull mounting with screws
06.441.31	30	runner to be sewn in strap

Sea Sure black nylon buckle

Lightweight and rugged.

Code	For straps up to mm	Max load kg
06.708.40	40	360
06.708.50	50	360

Adjustable stainless steel buckle

For multiple uses. To be sewn.

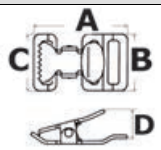
Code	For straps up to mm	Max load kg
06.702.40	40	320

4-bar stainless steel buckle

AISI 304 It enables to make terminal eyes on tapes to **avoid seams**.
Mirror-polished AISI304 stainless steel.

Code	For straps up to mm	ORDER BY BOX
06.710.30	30	2
06.710.40	40	2
06.710.50	50	2

Stainless steel strap buckle



For tensioning awning straps. Fitted with spring lock.

Code	A mm	B mm	C mm	D mm
06.441.36	62	35	25	21

Stainless steel ring with plate

Suitable for fixing hiking straps.

Code	Length mm
06.506.50	45

AISI316 stainless steel shackle with buckle

AISI 316

Built-in high-strength buckle.

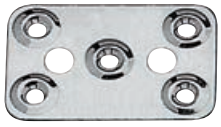
Code	For straps up to mm	ORDER BY BOX
09.250.20	25	10

Stainless steel plate for straps

For deck- or bulkhead-mounting of the strap.

Code	⟷ mm
06.709.01	40x40
06.709.02	62x40
06.709.03	50x16

◢ 06.709.01


◢ 06.709.02

◢ 06.709.03

White nylon flat eye strap

It lets the strap slide through or is a starting point for it.

Code	Width mm	ORDER BY BOX
06.703.30	30	10
06.703.40	40	10
06.703.50	50	10

AISI316 stainless steel flat eye strap

It lets the strap slide through or is a starting point for it.

Code	Width mm	Dimensions mm	Bore central distance mm	ORDER BY BOX
06.701.30	30	48x15	38	10
06.701.40	40	60x15	51	10
06.701.50	50	68.5x15	55	10

◢ 06.701.30
◢ 06.701.40
◢ 06.701.50

Deck U-bolts

AISI 316

For fixing nylon straps. Made of **mirror-polished AISI316 stainless steel**.

Code	Width mm	Thickness mm	ORDER BY BOX
06.704.40	40	5	10
06.704.50	50	6	10

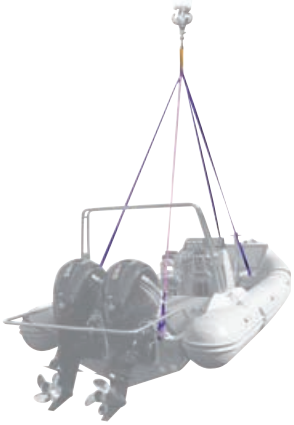
4-arm lifting system for boats and dinghies

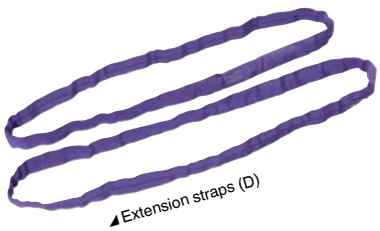
This kit is designed to offer several hooking point combinations when different lengths are reached ensuring the correct balance while lifting the boat.
User-friendly system that can be easily modified at each haulage. It can also be used as 3-arm system.
Lengths can be modified as follows:
- Crane side, using (or not) the yellow ring (+0.5 m)
- Boat side, adding half the extension strap (+0.5 m) or the whole of it (+1 m).

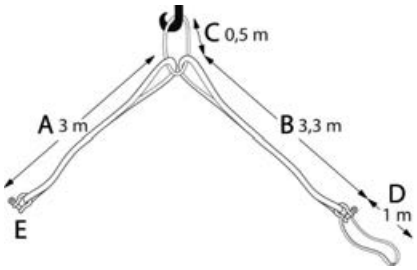
The kit includes:
- 2 x 3-m short straps (A)
- 2 x 3.3-m long straps (B)
- 1 x 0.5-m yellow ring for crane hooking (C)
- 2 x 1-m extension straps (D)
- 4 x shackles (E).

Code	Short strap A cm		Long strap B cm		Breaking load kg	Boat length m
	Dimensions	Possible lengths	Dimensions	Possible lengths		
06.587.01	300x5	300 - 350	330x5	330 - 380 - 430 - 480	4000	4.5 / 6
06.587.02	390x5	390 - 440	520x5	520 - 570 - 620 - 670	4000	6 / 7.5
06.587.03	500x5	500 - 550	600x5	600 - 650 - 700 - 750	4000	7.5 / 9

◢ Yellow ring (C)




◢ Extension straps (D)



► Turnbuckles and rigging screws

BLUE WAVE rigging screws

AISI 316 **BRONZE BODY**

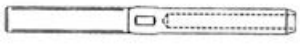
Fitted with **chromed brass** bottle-screws and **AISI stainless steel** terminals, **to be arranged according to needs**.

Fitted as: 1 bottle-screw, 1 left screw thread or 1 right screw thread (to be selected among these two types)

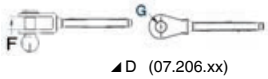
Bronze body (A)	Left thread	Right thread		UNF thread	For cable Ø mm	Breaking load kg	A+B+C		A+B+D		F mm	H mm	G mm
	jointed fork (B)	press-fitting terminal (C)	fixed fork (D)				L1 mm	L2 mm	L1 mm	L2 mm			
07.203.01	**07.204.01**	**07.205.01**	**07.206.01**	1/4"	3	1300	255	193	225	163	9.5	8	6.3
07.203.02	**07.204.02**	**07.205.02**	**07.206.02**	5/16"	4	2350	304-310	228-234	268	192	11	10	8
-	-	**07.205.03**	-	5/16"	5	2350	304-310	228-234	268	192	11	10	8
07.203.03	**07.204.03**	**07.205.04**	**07.206.03**	3/8"	5	3500	349-364	265-280	313	229	12	12	9.5
-	-	**07.205.05**	-	3/8"	6	3500	349-364	265-280	313	229	12	12	9.5
07.203.04	**07.204.04**	**07.205.06**	**07.206.04**	7/16"	6	4700	397-408	307-318	350	260	12	15	11
-	-	**07.205.07**	-	7/16"	7	4700	397-408	307-318	350	260	12	15	11
07.203.05	**07.204.05**	**07.205.08**	**07.206.05**	1/2"	7	5400	438-453	332-347	387	281	14	18	12.7
-	-	**07.205.09**	-	1/2"	8	5400	438-453	332-347	387	281	14	18	12.7
07.203.06	**07.204.06**	**07.205.10**	**07.206.06**	5/8"	8	8000	536-553	404-421	491	359	18	20	16
-	-	**07.205.11**	-	5/8"	10	8000	536-553	404-421	491	359	18	20	16
07.203.07	**07.204.07**	**07.205.12**	**07.206.07**	3/4"	10	13000	625-655	465-495	586	426	24	24	19
-	-	**07.205.13**	-	3/4"	12	13000	625-655	465-495	586	426	24	24	19

◢A (07.203.xx)

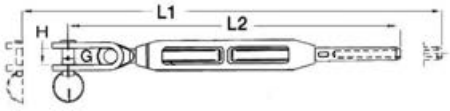
◢B (07.204.xx)



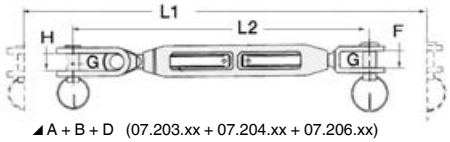
◢C (07.205.xx)



◢D (07.206.xx)



◢A + B + C (07.203.xx + 07.204.xx + 07.205.xx)



◢A + B + D (07.203.xx + 07.204.xx + 07.206.xx)

Stainless steel turnbuckle

AISI 316 UNF threads. Order the A+B+C or A+B+D combination.

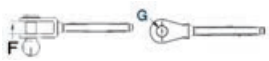
How to make it: 1 x bottle + 1 x left thread + 1 x right thread (choice of 2 types)

Open bottle (A)	Left thread	Right thread		UNF thread	For cable mm	A+B+C		A+B+D		F mm	H mm	G mm
	jointed fork (B)	press-fitting terminal (C)	fixed fork (D)			L1 mm	L2 mm	L1 mm	L2 mm			
07.183.01	**07.184.01**	**07.185.01**	**07.186.01**	1/4"	3	255	193	225	163	9.5	8	6
07.183.02	**07.184.02**	**07.185.02**	**07.186.02**	5/16"	4	304-310	226-234	268	192	11	10	8
-	-	**07.185.03**	-	5/16"	5	304-310	226-234	268	192	11	10	8
07.183.04	**07.184.04**	**07.185.04**	**07.186.04**	3/8"	5	349-364	265-280	313	229	12	12	9
-	-	**07.185.05**	-	3/8"	6	349-364	265-280	313	229	12	12	9
07.183.06	**07.184.06**	**07.185.06**	**07.186.06**	1/2"	7	438-453	332-347	387	281	14	18	12
-	-	**07.185.07**	-	1/2"	8	438-453	332-347	387	281	14	18	12
07.183.08	**07.184.08**	**07.185.08**	**07.186.08**	5/8"	8	536-553	404-421	491	359	18	20	16
-	-	**07.185.09**	-	5/8"	10	536-553	404-421	491	359	18	20	16

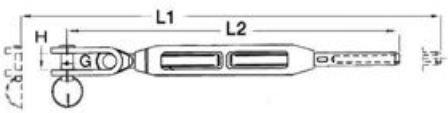
◢A (07.183.xx)

◢B (07.184.xx)

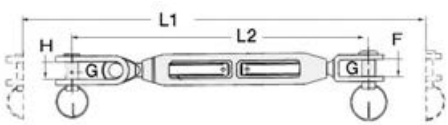
◢C (07.185.xx)



◢D (07.186.xx)



◢A + B + C (07.183.xx + 07.184.xx + 07.185.xx)

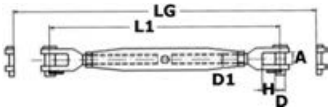


◢A + B + D (07.183.xx + 07.184.xx + 07.186.xx)

Turned rigging screws

Made of mirror polished **AISI 316 stainless steel**; fine finish, sliding threads, generously sized to provide a strong adjusting travel.

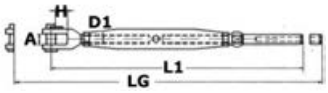
Code	Thread D1 MA	L1 mm	A mm	D mm	H mm	LG mm	Breaking load kg
07.192.04	4	115	4.5	4	8	175	410
07.192.05	5	127	5.5	5	10	195	460
07.192.06	6	150	6	6	10	230	910
07.192.08	8	180	8	8	11	255	1330
07.192.10	10	220	10.2	9	14	300	2180
07.192.12	12	270	14	12	20	380	3200
07.192.14	14	290	13	12	20	328	4300
07.192.16	16	340	17	12	26	480	5310
07.192.20	20	340	20	19	29	387	7940



Turned rigging screws with press-fitting terminal for stainless steel cables

Made with mirror polished **AISI 316 stainless steel**; fine finish, sliding threads, generously sized to provide a strong adjusting travel.

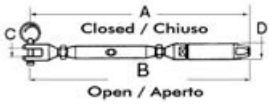
Code	Thread D1 MA	Rope Ø mm	L1 mm	A mm	H mm	LG mm
07.194.06	6	3	180	6	10	250
07.194.08	8	4	210	8	11	285
07.194.10	10	5	240	10.2	14	330
07.194.12	12	6	300	14	20	410
07.194.14	14	7	330	15	22	450



Rigging screws with built-in stainless steel allen spanner terminals

Made of **AISI 316 stainless steel**, suitable for **lifeline** ends.

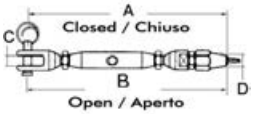
Code	for bare cables mm	Plastified wires mm	A mm	B mm	C mm	D mm
07.190.06	5/6	6	170	240	6.2	12



Turned rigging screws with built-in terminal suitable for Parafil cables

Made of AISI 316 stainless steel.

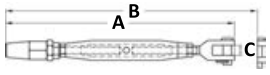
Code	Line Ø mm	A mm	B mm	C mm	D mm
07.196.07	7	187	240	6	13
07.196.09	9	190	240	6	14



Rigging screws with self-locking terminal

Made of AISI316 stainless steel.
The inner cone **automatically blocks** the cable when inserting it.

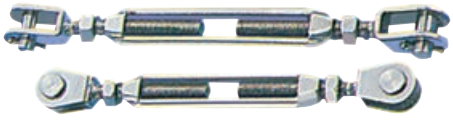
Code	Thread D1 MA	Line Ø mm	A mm	B mm	C mm
07.385.06	6	3	175	245	7.5
07.385.08	8	4	200	285	11
07.385.10	10	5	245	335	12
07.385.12	12	6	290	405	14

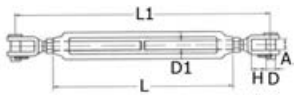


Rigging screws with two fixed jaws

AISI 316 stainless steel.

Code	Thread D1 MA	L1 mm	L mm	A mm	H mm	D mm	Breaking load kg
07.198.05	5	120	70	6.5	10	5	400
07.198.06	6	140	90	7.5	10	6	600
07.198.08	8	180	120	11	11	8	1000
07.198.10	9	220	150	12	14	9	1400
07.198.12	12	300	200	14	20	12	2400
07.198.16	16	375	250	17	26	16	4000

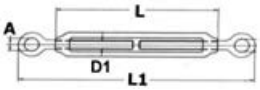


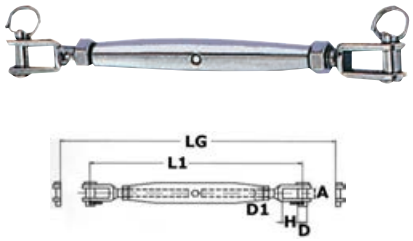


Eye to Eye Rigging screws

316 Stainless Steel.

Code	Thread D1 MA	L mm	L1 mm	A mm	Work load kg
07.193.04	4	60	100	7	-
07.193.05	5	70	120	8	160
07.193.06	6	90	150	10	320
07.193.08	8	120	200	14	560
07.193.10	10	150	240	16	880

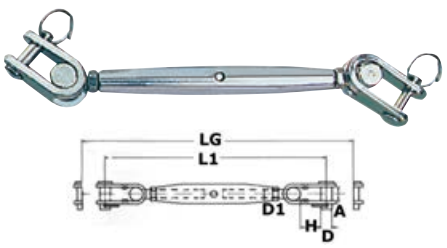




Rigging screws with two fixed jaws

AISI 316 stainless steel.

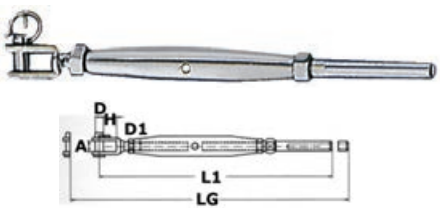
Code	Thread D1 MA	L1 mm	A mm	H mm	LG mm	D mm	Breaking load kg
07.197.04	4	110	5.5	8	160	4	-
07.197.05	5	130	6.5	10	190	5	400
07.197.06	6	150	7.5	10	220	6	600
07.197.08	8	165	11	11	240	8	1000
07.197.10	10	190	12	14	280	9	1400
07.197.12	12	245	14	20	360	12	2400
07.197.14	14	270	15	22	390	12	2800
07.197.16	16	310	17	26	450	16	4000



Rigging screws with two articulated jaws

AISI 316 stainless steel.

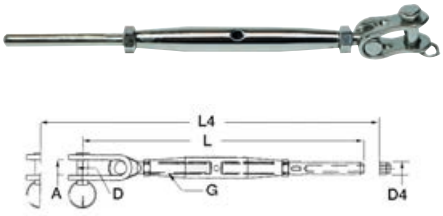
Code	Thread D1 MA	L1 mm	A mm	D mm	H mm	LG mm	Working load kg
07.195.06	6	160	7	6	15	230	600
07.195.08	8	190	10	8	20	265	1000
07.195.10	10	230	12	9	25	320	1400
07.195.12	12	280	13	12	30	390	2400



Rigging screws with fixed jaw and press-fitting terminal

AISI316 stainless steel.

Code	D1	Cable Ø mm	L1 mm	A mm	D mm	H mm	LG mm	Working load kg
07.191.06	M6	3	175	7.5	6	10	245	250
07.191.08	M8	4	200	11	8	11	275	350
07.191.10	M10	5	230	12	9	14	320	550
07.191.12	M12	6	285	14	12	20	400	-



Rigging screws with articulated jaw and press-fitting terminal

made of AISI 316 stainless steel

Code	For cable Ø mm	G mm	L mm	L4 mm	D4 mm	D mm	A mm	Work load kg
07.202.06	3	6	180	257	6.35	6	7	238
07.202.08	4	8	212	297	7.5	8	10	450
07.202.10	5	10	246	361	9	9	12	625
07.202.12	6	12	292	-	12.5	12	13	925
07.202.16	8	16	389	-	16.1	16	17	-
07.202.20	10	20	452	-	17.8	19	20	-

Rigging screw protectors made of UV-resistant white polyester

Very sturdy, fitted with **hook&loop fastener**, fine and convenient design providing protection for sails and the legs of the crew.

Code	Ø mm	Length mm
07.596.01	30	400
07.596.02	40	500
07.596.03	50	600

OSCULATI

◢ 07.595.64/65

Cover trims for shrouds and rigging screws, made of anodized aluminium

Shaped by two halves with dovetail joint. **Black nylon** terminal caps.
This system **prevents having to mount the shroud** in order to run the trim.
Customizable cutting; the caps are fitted with a special pin that is also used to hold the shroud.
The pipe is perforated by making a customizable cut.

Cap	Profile	Ø mm	Maximum wire mm	Length m
07.595.64	**07.595.40**	40	7	2
07.595.65	**07.595.60**	60	12	2

► MARLOW soft shackles

Marlow

Soft shackle

Soft shackles are hand-made with a Marlow D12 Dyneema SK78 line without cover. In comparison with traditional steel shackles, fabric shackles offer excellent pull with reduced weight.
Available colour: black.

Code	Ø mm	Breaking load kg	g	Length mm	ORDER BY BOX
08.310.04	4	2370	5.5	200	2
08.310.06	6	4010	9	300	2
08.310.07	7	6160	14.9	350	2
08.310.09	9	7980	27.4	450	2

The length indicated refers to the soft shackle when open.

WITH Dyneema®

► Shackles

OSCULATI

Galvanised steel D-Shackles

Fine finish and high quality threads, heavy galvanization.

Code	Pin mm	Ø d mm	A mm	L mm	ORDER BY BOX
08.320.05	5	5	10	20	10
08.320.06	6	6	13	25	10
08.320.08	8	8	16	32	10
08.320.10	10	10	19	38	10
08.320.12	12	12	25	51	10
08.320.14	14	14	28	58	-
08.320.16	16	16	32	64	-
08.320.20	20	20	38	76	-
08.320.25	25	25	51	100	-

Galvanised steel bow shackle

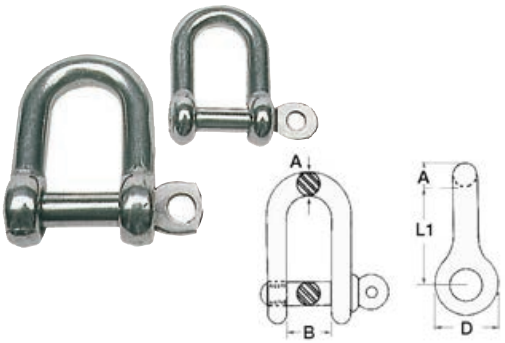
Its shape makes it deal to be used with thimbles.

Code	Pin mm	Ø d mm	A mm	L mm	ORDER BY BOX
08.329.06	6	6	13	25	20
08.329.08	8	8	16	32	10
08.329.10	10	10	19	38	10
08.329.12	12	12	25	51	-
08.329.14	14	14	28	58	-
08.329.16	16	16	32	64	-
08.329.20	20	20	38	76	-
08.329.25	25	25	51	100	-

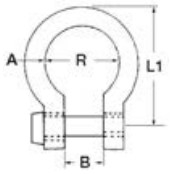
Stainless 'D' Shackles (316)

AISI 316 Polished **AISI 316 stainless steel**. Forged and mirror polished.

Code	A mm	B mm	D mm	L1 mm	ORDER BY BOX
08.321.04	4	8	8	16	10
08.321.05	5	10	10	20	10
08.321.06	6	12	12	24	10
08.321.08	8	16	16	32	10
08.321.10	10	20	20	40	10
08.321.12	12	24	24	48	-
08.321.14	14	28	28	56	-
08.321.16	16	32	32	64	-
08.321.19	19	38	38	76	-
08.321.22	22	45	47	104	-



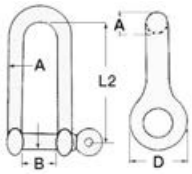
Stainless Bow shackles



AISI 316 Made of mirror polished **AISI 316 stainless steel**; fine finish, sliding thread.

Code	A mm	B mm	R mm	L1 mm	ORDER BY BOX
08.421.04	4	8	14	19	10
08.421.05	5	10	17	20	10
08.421.06	6	12	21	24	10
08.421.08	8	16	28	32	10
08.421.10	10	20	34	40	10
08.421.12	12	24	42	48	-
08.421.14	14	28	50	56	-
08.421.16	16	32	56	64	-
08.421.19	19	38	66	87	-
08.421.22	22	44	78	99	-

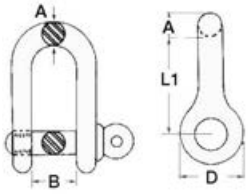
Long 'D' shackles



AISI 316 Made of forged, mirror polished **AISI 316 stainless steel**, excellent finish.

Code	A mm	B mm	D mm	L2 mm	ORDER BY BOX
08.323.04	4	8	8	32	10
08.323.05	5	10	10	40	10
08.323.06	6	12	12	48	10
08.323.08	8	16	16	64	10
08.323.10	10	20	20	80	-
08.323.12	12	24	24	96	-

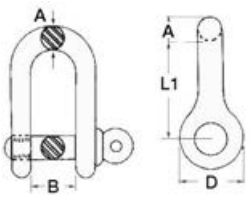
'D' Shackles with captive pin



AISI 316 D-shaped model.

Code	A mm	B mm	D mm	L1 mm	ORDER BY BOX
08.220.04	4	8	9	16	10
08.220.05	5	10	10	20	10
08.220.06	6	12	12	24	10
08.220.08	8	16	16	32	10
08.220.10	10	20	20	40	10
08.220.12	12	24	24	48	-
08.220.14	14	28	28	46	-

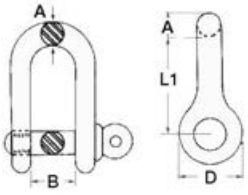
Bow shackles with captive pin



AISI 316 Polished **AISI 316 stainless steel**. Forged and mirror polished.

Code	A mm	B mm	D mm	L1 mm	ORDER BY BOX
08.221.04	4	8	9	16	10
08.221.05	5	10	10	20	10
08.221.06	6	12	12	24	10
08.221.08	8	16	16	32	10
08.221.10	10	20	20	40	-
08.221.12	12	24	24	48	-

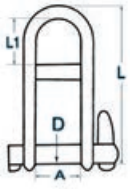
Long 'D'shackles with captive pin



AISI 316 Polished **AISI 316 stainless steel**. Forged and mirror polished.

Code	A mm	B mm	D mm	L1 mm	ORDER BY BOX
08.222.05	5	10	10	40	10
08.222.06	6	12	12	48	10
08.222.08	8	16	16	64	10
08.222.10	10	20	20	80	-
08.222.12	12	24	24	96	-

Long 'D' Shackles with captive locking pin



AISI 316 Made of **investment cast AISI 316 stainless steel**.

With stop bar	Standard	Ø D mm	A mm	L mm	L1 mm
08.764.05	**08.763.05**	5	12	40	12
08.764.06	**08.763.06**	6	15	46	15
08.764.08	**08.763.08**	8	20	64	20

Wide jaw 'D' shackles

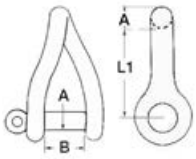
Made of mirror polished, **forged AISI 316 stainless steel**.

Code	Ø d mm	A mm	L mm	ORDER BY BOX
08.325.05	5	25	22.5	10
08.325.06	6	24	36	10
08.325.08	8	28	35	10
08.325.10	10	40	60	5
08.325.12	12	48	72	5

Twisted bow shackles

Made of forged AISI 316 stainless steel, very sturdy, excellent finish, long torsion.

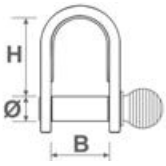
Code	Ø A mm	B mm	L1 mm	ORDER BY BOX
08.856.04	4	9	22	10
08.856.05	5	12	28	10
08.856.06	6	13	34	10
08.856.08	8	17	41	10
08.856.10	10	21	47	-
08.856.12	12	25	60	-



Stainless Strip Shackles (D-form)

Made of printed sheet mirror polished **stainless steel**, excellent finish.

Code	Version	Pin Ø mm	Length H mm	Width B mm	ORDER BY BOX
08.865.04	Long	4	25	10	10
08.865.05	Long	5	39	16	10
08.865.06	Long	6	43	14	10
08.865.08	Long	8	42	18	10
08.765.04	Short	4	17	10	10
08.765.05	Short	5	20	12	10
08.765.06	Short	6	26	15	10



► Multipurpose tools

Multi-purpose tool made of AISI 316 stainless steel

Ideal to open/close shackles.

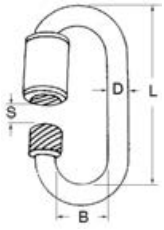
Code	Description
08.360.06	Suitable as unshackle device and as bottle opener.

► Hooks

Snap-hooks with screw opening

Made of **AISI 316 stainless steel**, very sturdy.

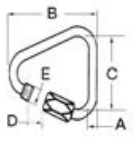
Code	D mm	L mm	B mm	S mm	ORDER BY BOX
08.874.35	3.5	29	10	4.5	10
08.874.40	4	32	12	5.5	10
08.874.50	5	39	13	6.5	10
08.874.60	6	45	14	7.5	10
08.874.80	8	58	18	9.5	10
08.874.10	10	69	22	12	10



Delta snap-hooks with screw opening

Made of **AISI 316 stainless steel**.

Code	A mm	B mm	C mm	D mm	E mm
08.875.03	3.5	35	33	4.5	4.5
08.875.04	4.5	50	30	6.2	6.2
08.875.06	6	55	35	8	10



► Swivels

Swivels

Made of **stainless steel** with slip off pins and ring.

Code	Swivelling fork mm
08.070.05	10x15
08.070.06	13x15

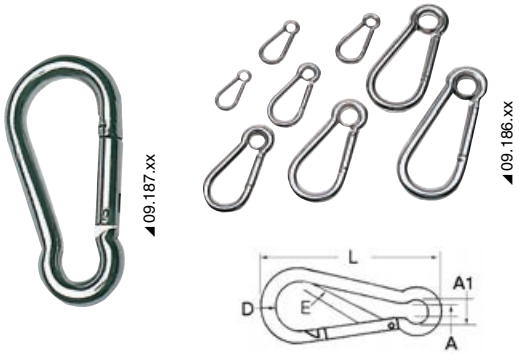
Swivels with rotating fitting

Made of **heavy stainless steel**.

Code	Internal length mm	centre-to-centre mm	Pin mm	Breaking load kg
08.071.08	14	42	8	1800

► Hooks

Carbine hooks made of mirror polished AISI 316 stainless steel



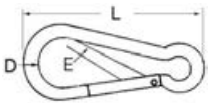
AISI 316 Fitted with stainless steel spring, model available with or without eye.

Version		D mm	L mm	A1 mm	A mm	E mm	ORDER BY BOX
with eyelet	without eyelet						
-	**09.187.03**	3	35	5	4	6	10
09.186.04	**09.187.04**	4	40	6	5	7	10
09.186.05	**09.187.05**	5	50	9	6	8	10
09.186.06	**09.187.06**	6	60	13	8	9	10
09.186.07	**09.187.07**	7	70	13	8	10	10
09.186.08	**09.187.08**	8	80	13	8	11	10
09.186.10	**09.187.10**	10	100	16	10	14	10
09.186.12	**09.187.12**	11	120	18	11	16	-
09.186.14	**09.187.14**	12	140	20	13	19	-
09.186.16	**09.187.16**	13	160	22	14	26	-

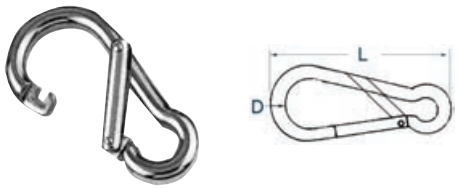
Carbine-hooks with flush closure, made of mirror polished AISI 316 stainless steel

AISI 316 Made of AISI 316 stainless steel.

Version		D mm	L mm	E mm	ORDER BY BOX
without eyelet	with eyelet				
09.190.05	**09.191.05**	5	50	8	10
09.190.06	**09.191.06**	6	60	9	10
09.190.08	**09.191.08**	8	80	11	10
09.190.10	**09.191.10**	10	100	14	5
09.190.12	**09.191.12**	11	120	18	5



Carbine hooks with special asymmetric opening, made of stainless steel



AISI 316 Made of **AISI 316 stainless steel**; its special opening enables maximum flexibility.

Code	D mm	L mm	Opening mm
09.590.08	8	80	19
09.590.10	10	100	22
09.590.12	12	120	26

Snap-hooks with large opening, made of stainless steel

AISI 316 Made of mirror polished **AISI 316 stainless steel**; large opening.

Code	D mm	L mm	Opening mm
09.185.08	8	80	16
09.185.10	10	100	19
09.185.12	12	120	25

Snap-hooks with spring opening, made of stainless steel

AISI 316 Made of **AISI 316 stainless steel**.

Code	Length mm	ORDER BY BOX
09.247.31	31	10
09.247.50	50	10
09.247.70	70	10
09.247.10	100	5

Coloured carabiner hooks

Made of **anodized avionic aluminium**.

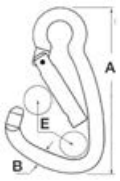
Code	Size mm	ORDER BY BOX
09.183.05	50	10
09.183.06	60	10
09.183.08	80	10

Carbine hooks with large opening, made of stainless steel

AISI 316

Made of **AISI 316 stainless steel**, hooking without grips.

Version			A mm	B mm	E mm
standard	with eye	with safety tread			
09.177.06	**09.178.06**	-	61	6	10
09.177.08	**09.178.08**	-	82	8	14
09.177.10	**09.178.10**	-	101	10	18
09.177.12	**09.178.12**	**09.179.12**	122	11	23



◢ 09.177.xx

◢ 09.178.xx

◢ 09.179.xx

Stainless Carbine hooks with screw safety sleeve

AISI 316

Made of **AISI 316 stainless steel.**

Code	Length mm
09.195.06	60
09.195.08	80
09.195.10	100
09.195.12	120

Carbine hook with outer opening, made of stainless steel

Safety spring sleeve with eyelet.

Code	Length mm
09.287.06	60
09.287.08	80
09.287.10	100

Stainless steel Carbine specially designed for safety harnesses

Made of **stainless steel**, includes automatic spring safety lock to prevent accidental opening.

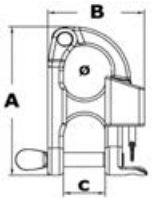
Code	Length mm	Breaking load kg
09.200.00	100	2000

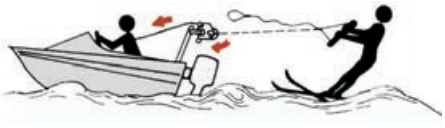
Stainless steel snap-hook for water skiing complying with Ri.Na standard (declaration 165/06/DIP dated 18/04/1988)

AISI 316

Made of **AISI 316 stainless steel**; it opens immediately from any direction even when loaded, simply pull the release houseline.

Code	Ø mm	A mm	B mm	C mm	Work load kg	Max load kg
09.525.00	15.8	59.5	37	16.7	150	800
09.525.01	22.3	100	49	20.7	300	1200





► Sail snap hooks

Aluminium spike

For opening tightened snap-shackles.

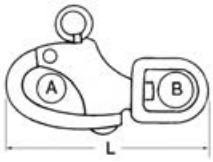
Code	Length mm	For shackles
09.844.00	200	**09.855.01; 09.855.02; 09.855.03**

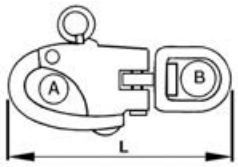
Snap-Shackles for spinnaker, halyards and general purposes, made of stainless steel

AISI 316

Made of mirror polished **AISI 316 stainless steel**; swivelling eye.

Code	A mm	B mm	L mm
09.845.70	12	12	70
09.845.90	16	16	87
09.845.13	22	22	128

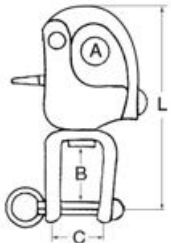




Double-joint snap-shackles for spinnaker, halyards and general purposes, made of stainless steel

AISI 316 Made of **AISI 316 stainless steel**;**double joint** model with swivelling eye.

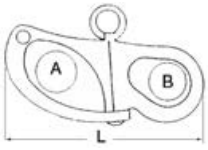
Code	A mm	B mm	L mm
09.846.01	16	14	82
09.846.02	21	16	105



Snap-shacke with swivel and fork for spinnaker, halyards and general purposes, made of stainless steel

AISI 316 Made of mirror polished **stainless steel**; eye fitted with swivelling shackle.

Code	A mm	B mm	L mm	C mm
09.939.01	12	12	70	12
09.939.02	16	13	87	13
09.939.03	22	16	128	22



Snap-shackle for spinnaker, halyards and general purposes, made of stainless steel

AISI 316 Made of **AISI 316 stainless steel**, high quality finish, very sturdy.

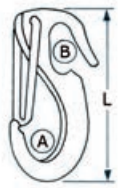
Code	A mm	B mm	L mm
09.945.32	11	6	32
09.945.50	12	9	52
09.945.75	16	12	66
09.945.90	22	16	96

Snap-shackles for sheets, halyards and spinnakers, made of stainless steel

AISI 316 Made of mirror polished AISI 316 stainless steel; **fitted with trigger opening**.

Code	Length mm	A mm	B mm
09.855.01	85	17	11
09.855.02	105	21	14
09.855.03	127	26	17

► Snap-hooks



Snap-hooks for jib

Made of **mirror polished stainless steel**.

Code	L mm	A mm	B mm	Breaking load kg
09.963.01	50	7.5	6.5	70
09.963.02	65	11	10	130
09.963.03	90	17	13	250

Snap-hooks with swivel, made of stainless steel

AISI 316 **AISI316 stainless steel**. For closed eyelet jib.

Code	Length mm
09.251.00	69
09.251.01	83
09.251.02	94
09.251.03	113

Snap-hooks with flat eye to fit belts, made of stainless steel

AISI 316 Made of **AISI 316 stainless steel**; eye suitable for 25 mm ribbons; ideal for boat awning tensioners.

Code	A mm	B mm	C mm	ORDER BY BOX
09.250.00	48	5	25	10

Snap-hooks with rectangular eye for webbing, made of stainless steel

AISI 316 Made of AISI 316 stainless steel; safety torsion lock.

Code	Length mm	For tape max mm
09.249.01	52	26
09.249.02	72	32
09.249.03	90	40

Snap-hook with buckle, made of AISI 316 stainless steel

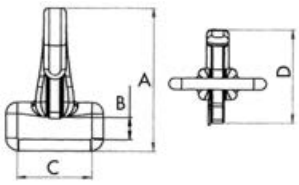
AISI 316 Built-in with high resistance buckle.

Code	For tape mm	ORDER BY BOX
09.250.20	25	10

AISI316 stainless steel snap shackle

For 25- or 30-mm tape.

Code	⟷ mm			
	A	B	C	D
09.252.25	54.3	8.5	25	35.5
09.252.30	54.3	8.5	28.4	35.5



Plate/buckle for tapes

AISI 316 Made of polished AISI 316 stainless steel, with **removable** and 5° to 125° **balancing** buckle.

Code	For tapes max mm	Base mm
46.670.60	30	45x34

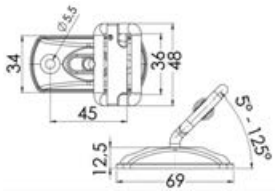
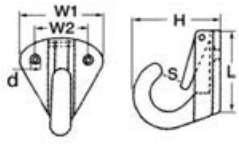


Plate fitted with openable hook

To be mounted with holes; spring tongue.

Code	Material	L mm	W1 mm	W2 mm	S mm	d mm	H mm	ORDER BY BOX
09.171.00	chromed brass	30	36	25	7	4.2	27	1
09.172.01	AISI 316 stainless steel	27	33	20	7	4	25.5	10
09.172.02	AISI 316 stainless steel	35	31	19	10	4.5	31.5	10



► Hooks

Curved screw hooks made of stainless steel

In display blister.

Code	Length mm	Wire Ø mm	ORDER BY BOX
09.034.01	37	3.5	7
09.034.02	44	4	5

Screw eyes made of stainless steel

In display blister.

Code	Length mm	Wire Ø mm	ORDER BY BOX
09.033.00	25	2.5	12
09.033.01	28	3	10
09.033.02	32	3.5	7
09.033.03	38	4	5
09.033.04	45	4.5	4

Stainless steel L-shape screw hook

In display blister.

Code	Length mm	Wire Ø mm	ORDER BY BOX
09.035.01	32	3	10
09.035.02	40	3.5	7
09.035.03	47	4	5

◢ 09.034.xx

◢ 09.033.xx

◢ 09.035.xx

► Knives

Sail knife with plastic grip, made of stainless steel

Hand-grip coated with colored plastic, fitted with fid and shackle opener.

Code	Handle colour	Blade mm	Length when closed mm	Length when open mm	g
10.285.11	Yellow	65	100	155	118
10.285.12	Orange	65	100	155	118
10.285.13	Blue	65	100	155	118

Sail knife made of stainless steel

Supplied with blade, fid, folding shackle key and screwdriver, high quality finish.

Code	Handle colour	Blade mm	Length when closed mm	Length when open mm	g
10.285.10	Mirror-polished SS	65	100	150	102

High quality knife made of stainless steel

Equipped with shackle key, fid, bottle opener, screwdriver, hook disgorger; it comes in a blister package.

Code	Handle colour	Blade mm	Length when closed mm	Length when open mm	g
10.285.05	Mirror-polished steel	70	100	155	142

Knife + fid in leather cover

Stainless steel knife, **fid** and shackle key, very practical and sturdy leather **cover** with belt hook.

Code	Handle colour	Blade mm	Length when closed mm	Length when open mm	g
10.285.20	Wood	131	240	230	220

► Stainless steel multipurpose tools

Multipurpose pliers

Made of stainless steel, includes case. Wire cutting pliers, serrated blade, knife, wood saw, hook disgorger, bottle opener, hex key, tape-measure and fid.

Code	Handle colour	Length when open mm	Length when closed mm	g
10.285.48	Mirror-polished steel	300	115	226

6-function multipurpose tool

- Hammer - Wrench - Pliers - Knife (2 blades) - 12-purpose screwdriver (Phillips-head, flathead, Torx, Allen). Nylon case included.

Code	Length when open mm	Length when closed mm
10.285.55	220	180

► D-SPLICER splicing tools

D-SPLICER
ROPE SPLICING PRODUCTS

New D-SPLICER set of 4 needles

Code	Description
10.301.00	The splicing set includes 4 needles of different size: N. 2 x Ø 1 mm x 24 cm suitable for < Ø 2 mm line splicing, N. 2 x Ø 1.5 mm x 26 cm suitable for Ø 2-4 mm line splicing.

New D-SPLICER needle

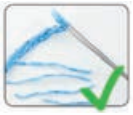
With fixed handle for easy use.

Code	Initials	Ø-needle mm	For Ø-lines mm
10.302.10	F10	1	0 - 2
10.302.15	F15	1.5	2 - 4
10.302.20	F20	2	4 - 6
10.302.25	F25	2.5	6 - 8

◢ When using the needles in the right manner one can extend their lifespan

◢ YES! Clamp only the tip of the rope

◢ NO! Do not double the rope



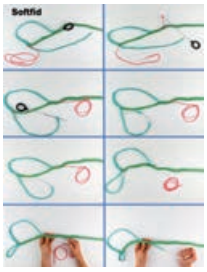
◢ YES! Taper thicker ropes OR take a larger D-SPLICER needle

◢ NO! Too thick!

New D-SPLICER splicing handbook

Handbook with detailed instructions for good and long-lasting splicing.

Code	Language
10.306.01	Italian
10.306.02	English



New D-SPLICER ceramic knife

This knife remains sharp and cuts super fibers like Dyneema, Spectra & Vectran with ease.
It comes in a protective cover.

Code	Initials	For
10.306.24	D-24	Ø-lines up to 20 mm

New D-SPLICER scissors

Designed for cutting super fibres like Dyneema, Vectran, Stirotex.

Code	Initials	For
10.307.16	C-16	Ø-lines up to 8 mm

New D-SPLICER tape

Strong, thin and smooth for perfect application.

Code	⟷ m
10.308.00	66

► Splicing accessories; lighter

Lighter - windproof and waterproof heater

Code	Description
10.107.12	It combines a traditional gas lighter with a housing where heat-shrink sheaths can be heated up without burning.

Marlow

MARLOW professional kit for line splicing

Code	Description
10.291.00	It includes: marlinespike, 2 x steel needles (1 x 25-cm long and 1 x 50-cm long), whipping twine, finish tape, illustrated instructions.

Feeder kit for line splicing (for ropes with core and sheath)

Code	Description
10.292.00	5 Feeders for 4- to 20-mm long lines. Aluminium construction - except 4/6 made of stainless steel. It comes in its case.

Marlow

MARLOW whipping twine

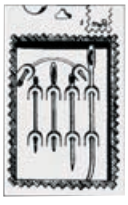
Suitable for sewing sails and splicing lines, **plastic** spools. Made of waxed polyester

Code	Colour	Thread	Spools m	Ø mm	ORDER BY BOX
10.207.02	White	Thin	92	0.5	12 pcs
10.207.04	White	Medium	41	0.8	12 pcs
10.207.08	White	Thick	23	1.1	12 pcs
10.207.14	Red	Medium	41	0.8	12 pcs
10.207.24	Blue	Medium	41	0.8	12 pcs
10.207.34	Black	Medium	41	0.8	12 pcs

Sail repair kit

10.290.00 Includes: 2 polyester thread reels - 1 paraffin wax tablet - a pair of scissors - 5 needles - 2,5 meters of Dacron self-adhesive tape 10.288.00 - 1 sail-maker's palm - 1 square-piece of Dacron fabric - 1 splicing fid 10.285.70 - 1 puncher. All items provided in a plastic jar.

Sail needles



Package of assorted needles. Ideal to repair and reinforce the sails.

Code	Description
10.286.00	A series of 5 different sail needles.

Polyester thread

Special high strength thread suitable for sewing sails.

Code	Colour	m
10.287.01	white	30

Fids

Made of **stainless steel** with handle, suitable for splicing

Code	Version
10.285.70	Small
10.285.71	Large (for lines over 11/12 mm)

Sail-maker's palm

Made of **leather** with reinforced metal, suitable for sewing or splicing.

Code	Version
10.285.80DX	right
10.285.80SX	left

Kit to cover steering wheels with leather

Pre-punched leather cover kit for steering wheels, 120-cm max diameter and 22-mm tube.
Display blister containing what's necessary to cover steering wheels with leather.
You can choose the smooth or suede side to be sewn.

The kit contains:
- 2 x strips of pre-punched leather with already made wheel central seam.
- 2 x reels of Marlow thread.
- 2 needles.
- 1 punch.

Code	Colour
65.527.01	Polished or suede brown
65.527.02	Polished or suede ice white

◢ 65.527.01

◢ 65.527.01

► Repairs ribbons

PSP Stayput self-adhesive tapes for repairs

Adhesive tape "**Dacron SPI**" for repairing sails in a matter of seconds. Ideal for spinnakers, designed to reinforce the battens.

Code	Colour	Roll	Code	Colour	Roll
10.288.00AR	Orange	50 mm x 4.5 m	10.288.00VE	Green	50 mm x 4.5 m
10.288.00AZ	Light blue	50 mm x 4.5 m	10.288.00BL	Blue	50 mm x 4.5 m
10.288.00BI	White	50 mm x 4.5 m	10.288.00GI	Yellow	50 mm x 4.5 m
10.288.00RO	Red	50 mm x 4.5 m	10.288.00NE	Black	50 mm x 4.5 m

PSP Heavy Duty Stayput self-adhesive tapes for repairs

Adhesive tape for sail repairs in a matter of seconds. Higher strength version for sailing boats over 10 metres.

Code	Color	Roll
10.289.00	white	50 mm x 2 m
10.289.01	white	100 mm x 2 m

PSP Mylar self-adhesive tapes for repairs

Special clear adhesive tape suitable for repairing sails in a matter of seconds; Mylar is also suitable for Dracon sails and sails with other type of fabrics.
Moreover, it can be used to repair clear windows on sail boards or surf boards.

Code	Colour	Roll
10.387.00	transparent	50 mm x 3 m
10.388.00	transparent	150 mm x 3 m

◢ 10.387.00

◢ 10.388.00

PSP Dacron Insigna self-adhesive tape for repairs

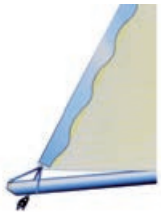
High strength self-adhesive tape, suitable for repairing part of sails that are subjected to considerable strains.

Code	Color	Roll
10.288.40	white	75 mm x 1.5 m
10.288.41	black	75 mm x 1.5 m
10.288.42	red	75 mm x 1.5 m
10.288.43	blue	75 mm x 1.5 m

PSP Kite Tape, self-adhesive

Tear-proof self-adhesive tape ideal to repair kite or sheet sails.
Apply on the tear so that it doesn't open further.

Code	Color	Roll
10.288.10BI	white	150 mm x 2,5 m



PSP Dacron Wave Leech Tape, self-adhesive

Decron[r] self-adhesive tape designed to reinforce worn up sails (i.e. the mainsail leech) in leeward areas avoiding shaking and preserving their performance.

Code	Colour	Roll
10.288.20BI	White	75 mm x 3 m

PSP Kevlar self-adhesive tape

Ideal to repair racing sails.

Code	Colour	Description	Roll
10.487.00	Gold	Suitable to repair sails made from the same fabric. High strength. It can also be used on polyester or Mylar sails	75 mm x 1.5 m

PSP Repair Patch self-adhesive tape

Two self-adhesive rectangular tapes, size 24 x 37 cm each; suitable for repairing large tears; to be applied on both sides of the sail.

Code	Material	Colour
10.385.00BI	DACRON	White
10.385.00BL	DACRON	Blue

10.293.00

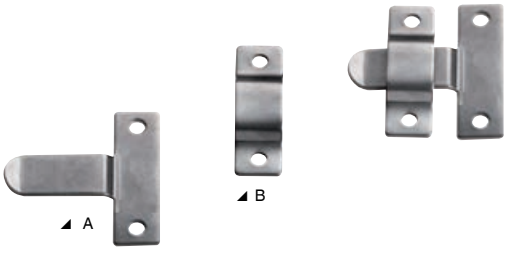
10.293.01

PSP Mast Collar self-amalgamating tape for mast foot

Self-amalgamating tape for sealing the mast foot on sailing boats.

Code	Colour	Roll
10.293.00	White	100 mm x 1,25 m
10.293.01	Black	100 mm x 1,25 m

► Pins, eyelets and mounting accessories



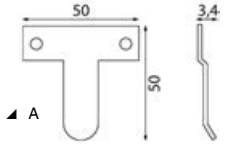
A

B

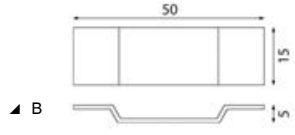
Cushion holder

Stainless steel. Pat A has to be fastened to the boat and part B has to be fastened to the back of the cushion. Then the two parts stuck one into the other.

Code	⟷ mm
10.320.00	50x50 (A) 50x15 (B)



A



B

Snap fasteners made of stainless steel

Code	Description
10.301.01	A series of 15 x 17-mm Ø pins, male and female 10.303.11/12/13, for fitting onto canopies, tents, etc. It includes installation tool.

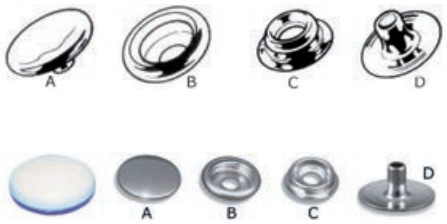
Snap fasteners made of chromed brass

Code	Description
10.301.02	A series of 10 light pins, male and female, designed for fitting into clothing, blinds, bags etc.; includes installation kit.

Snap fasteners

Bulk pack of 1000 pieces.

Code	Description	Head Ø mm	Component	Material	Spring	ORDER BY BOX
10.301.11	Female head	17	A+B	Nickel plated brass	Brass	1000
10.301.12	Male to fasten under deck	-	C	Nickel plated brass	Brass	1000
10.301.13	Counterflange to fasten C on fabric	-	D	Nickel plated brass	Brass	1000
10.303.11	Female head	17	A+B	S.S.	Brass	1000
10.303.12	Male to fasten under deck	-	C	S.S.	Brass	1000
10.303.13	Counterflange to fasten C on fabric	-	D	S.S.	Brass	1000
10.304.11	Female head	17	A+B	S.S. coated with white nylon	Brass	1000



Pliers for snap fasteners 10.301.XX/ 10.303.XX

Code	Description
10.299.85	Supplied without punches.

Deck press for snap fasteners 10.301.XX/10.303.XX

Code	Description
10.299.80	Supplied without punches.

Punch set for snap fasteners 10.301.XX/10.303.XX

Code	Match to	
	press	pliers
10.299.90	**10.299.80**	**10.299.85**

Top Snapper tool

Device to open automatic pins without ripping off the fabric.

Code	Made of
10.299.75	SS and nylon

Deck Mate multi-purpose tool

Screwdriver, universal key suitable for water/fuel caps, 6 mm key, hinge hook opener, bottle opener and shackle opener.

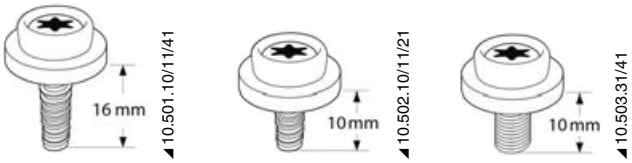
Code	Made of
10.299.76	SS and nylon

CAF-COMPO universal composite screw studs

CAF COMPO
made to match

Matching any snap fastener on the market. It comes in different colours to perfectly match any point of installation. Built-in screw for fast installation.
Version:
A: suitable for any material, fiberglass, wood and other composites included.
B: developed for use in sandwich-constructions with min. 10-mm core thickness.
C: metric-thread version for tapping into aluminum or iron substrates (profiles, hulls, windscreens, etc.)

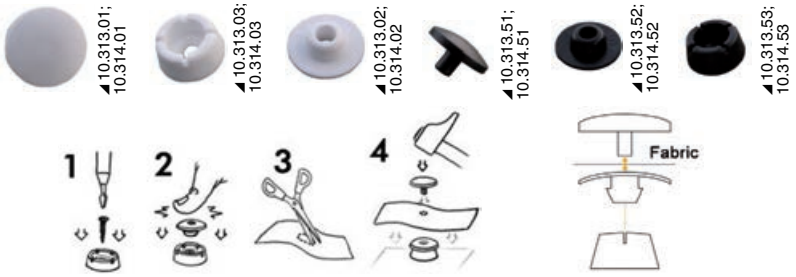
Code	Version	Stud	Thead	Colour	ORDER BY BOX
10.501.10	A	Universal	Long	White	10 (blister)
10.501.11	A	Universal	Long	White	100 -
10.501.41	A	Universal	Long	Black	100 -
10.502.10	B	Universal	Short	White	10 (blister)
10.502.11	B	Universal	Short	White	100 -
10.502.21	B	Universal	Short	Cream	100 -
10.503.31	C	Universal	Metric	Grey	100 -
10.503.41	C	Universal	Metric	Black	100 -



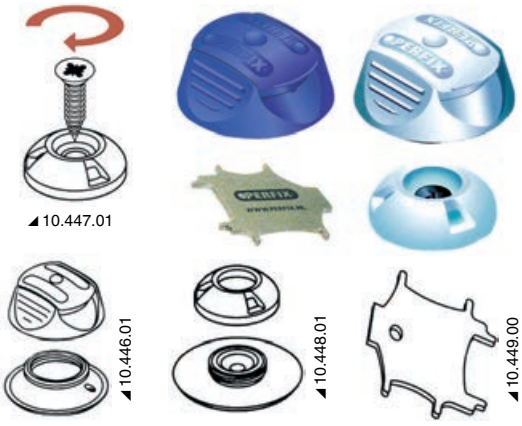
STAYPUT Press Clip plastic snap fasteners

Made of anti-UV corrosion-resistant nylon. Easy to install, guaranteed hold and resistant. 5-mm hole on the fabric.

Cap			Stud			Eyelet		
White	Black	ORDER BY BOX	White	Black	ORDER BY BOX	White	Black	ORDER BY BOX
10.313.01	10.313.51	100	10.313.02	10.313.52	100	10.313.03	10.313.53	100
10.314.01	10.314.51	1000	10.314.02	10.314.52	1000	10.314.03	10.314.53	1000



PERFIX



PERFIX snap fasteners

Suitable for mounting tents, hoods, cushions, etc. Made of **composite plastic**, the mounting part faces the deck, thus **there are no overhang parts that can be dangerous for the feet** or that can get caught up on the lines; anti-corrosion and UV resistant.

White	Blue	Description	ORDER BY BOX
10.446.01	10.446.02	Spring lock pin to install on cushion/sheet	100*
10.447.01	10.447.02	Female to install on deck	100**
10.448.01	10.448.02	Female with counterplate to install on fabric	100*
10.449.00	-	Installing harness	-

* *Mounting key included*

** *4.2x16 self-tapping screws included.*

◢ PREVENT ACCIDENTS BY USING PERFIX FASTENERS

LOXX

LOXX® German snap fasteners

Fitted with press-functioning system and spring lock on the female.

Code	Description	Material	ORDER BY BOX
10.440.00	Female for oversized head hood, 15-mm Ø for better grip, for fabric up to 3 mm thick.	Stainless steel	50 -
10.440.50	Female for oversized head hood, 15-mm Ø for better grip, for fabric up to 3 mm thick.	Stainless steel	5 (blister)
10.440.02	Female for oversized head hood, 15-mm Ø for very thick fabric up to 7 mm.	Chromed brass	50 -
10.440.01	Female for hood, standard version, 11-mm Ø head, for fabric up to 3 mm thick.	Chromed brass	50 -
10.441.00	Male with self-tapping stainless steel screw. Length A: 12 mm.	Stainless steel	100 -
10.441.50	Male with self-tapping stainless steel screw. Length A: 12 mm.	Stainless steel	5 (blister)
10.442.10	Male with screw and nut. Length A: 10 mm.	Stainless steel	100 -
10.442.51	Male with screw and nut. Length A: 10 mm.	Stainless steel	5 (blister)
10.444.10	Male with knurled ring to be fastened on the fabric.	Stainless steel	100 -
10.444.51	Male with knurled ring to be fastened on the fabric.	Stainless steel	5 (blister)
10.443.00	Male with plate to be fastened with screws or rivets.	Chromed brass	100 -
10.443.50	Male with plate to be fastened with screws or rivets.	Chromed brass	5 (blister)
10.439.00	Special tool designed to screw “Tenax” and "Loxx" pins.	-	1 (single)

Q-SNAP fasteners

AISI 316

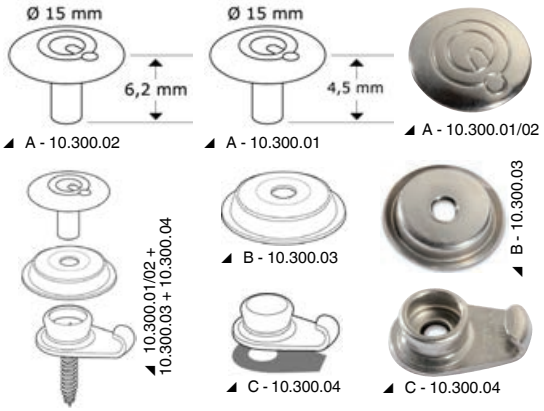
PATENT / BREVETTATO

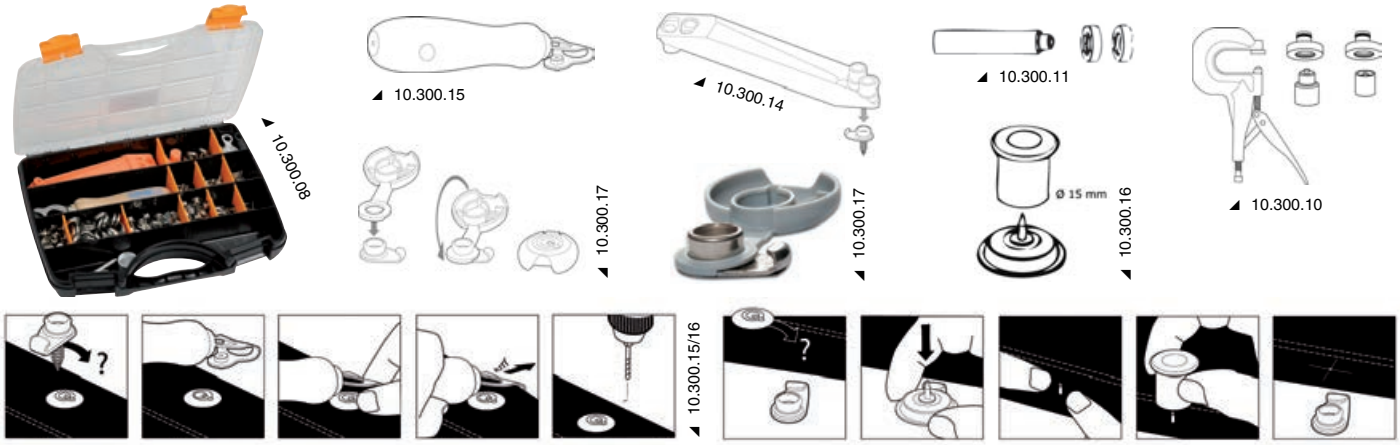
Made of AISI 316 stainless steel. The male part is equipped with a tooth to hook the female part which in turn has a special check lip.
These two elements keep the fabric perfectly stretched and avoid its fortuitous release.

Code	Product	ORDER BY BOX
10.300.01	Q-CAP **(A)**, 4.4-mm pin	100
10.300.02	Q-CAP **(A)**, 6.2-mm pin	100
10.300.03	Q-SOCKET **(B)**	100
10.300.04	Q-STUD **(C)**	100
10.300.06	KIT A (4.4 mm)+B+C+screws	1 kit =10+10+10+screws
10.300.08	STARTER KIT	50 x 10.300.01 + 50 x 10.300.03 + 50 x 10.300.04 with 3 types of screws + 5 x SS rivets + 1 x 10.300.14 + 1 x 10.300.15 + 5 x 10.300.16 + 5 x 10.300.17 + 1 x 10.300.11

ACCESSORIES TO COMPLETE

10.300.10 *Industrial press for mounting A+B*
10.300.11 *DIY kit for mounting A+B*
10.300.14 *Tool for correct orientation and fixing of C*
10.300.15 *Tool for correct positioning of C on the hull, when A+B are already mounted on the tent*
10.300.16 *Pin for correct positioning of A+B on the cloth when C is already mounted on the hull*
10.300.17 *Plastic cap for C*

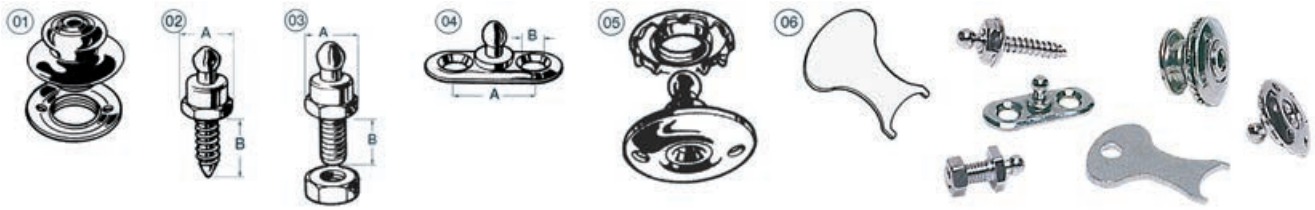




TOMAX snap fasteners made of nickle-plated brass

Made of **nickel-plated brass**, fitted with press-functioning system and spring lock on the female.

Code	Description	Picture n.	ORDER BY BOX
10.473.01	Female with large mushroom plug, fitted with screw counter-ring, designed to be fixed on fabric	01	25
10.473.02	Male with self-tapping pin, A = 8 mm, B = 10 mm	02	25
10.473.03	Male with threaded pin Ø 5 mm, A = 8 mm, B = 10 mm	03	25
10.473.04	Male with 2 screw platei, A = 15 mm, B = 4.8 mm	04	25
10.473.05	Male for fixing on fabric, fitted with screw counter-ring	05	25
10.473.06	Tool device to screw “PULL IT UP”	06	1

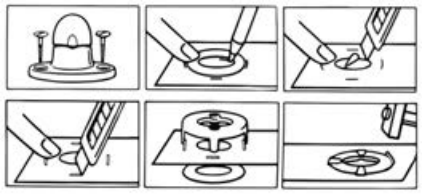


Eyelets made of brass

Display blister pack with installation kit.

Code	Size mm	Color	ORDER BY BOX
10.372.05	5.5	nickel plated	40
10.372.08	8.5	nickel plated	24
10.372.11	11	nickel plated	15
10.372.15	14	yellow	10

Turn buttons for canvas



The blister contains: 4 complete pieces.

Code	Material	⟷ mm
10.455.02	Stainless steel	33

Snap fasteners and male + female snap fasteners

Kit of nickel-plated brass fasteners in a display blister.

Code	Kit including
10.416.49	2 x 10.440.00 + 2 x 10.441.00 + tool for screwing

◢ 10.305.00

◢ 10.306.00

Fasteners made of nickel-plated brass for carpet

Code	Description	ORDER BY BOX
10.305.00	Female to be seamed on the carpet	100
10.306.00	Male with **S.S.** self-tapping screws, length 10 mm, to be screwed on the floor	100

Canopy knob

100% **nylon**. Press-fit the eyelet onto the fabric part. **Nylon** knob spring, white colour.

Code	Description	ORDER BY BOX
10.426.00	Male to be fixed + eyelet for fabric	10

◢ 10.462.01

FASTMOUNT PANEL MOUNTING SYSTEMS

◢ 10.462.03

FASTMOUNT Textile Range fastening system for cushions and backrests

These clips are sewn on the cushions. The flexible spring loaded clip with 3-point release system locks to the male clip screwed onto the panel or backrest.
Manual release or by removal tool.

Code	OEM	Description	ORDER BY BOX
10.462.01	TC-F6	Recessless female clip to be sewn	25
10.462.03	TC-M6	20-mm Ø recessless male clip to be screwed	25

delahousse S.A.

◢ 10.340.01

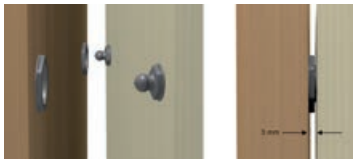
◢ 10.340.02

◢ 10.340.03

◢ 10.340.04

◢ 10.341.01

◢ 10.341.02



◢ 10.340.04 Standard installation

◢ 10.341.03

DELAHOUSSE Quick Fit panel fastening system

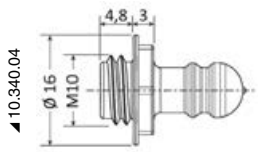
Hidden and easy fastening, no special tools required.
For panels made of wood, metal, resin, etc.
With or without seals.
Material: PA6 (black nylon).

Code		Description	Opening load kg with:			
Male	Female		10.341.01	10.341.02	10.341.03	ORDER BY BOX
10.340.01	-	**Short thread** with standard ball pin	6.5	5.8	5.8	100
10.340.02	-	**Short/short thread** with standard ball pin	6.5	5.8	5.8	100
10.340.03	-	**Short thread** with long ball pin	7.0	5.6	5.6	100
10.340.04	-	**Short/short thread** with long ball pin	7.0	5.6	5.6	100
-	**10.341.01***	**Standard model** with 20-mm bore and 2.5-mm hear overhang	-	-	-	100
-	**10.341.02***	**Self-aligning model** with 25-mm bore and 2.5-mm hear overhang	-	-	-	100
-	**10.341.03**	**Square self-aligning model** with 25-mm bore and 2.7-mm hear overhang	-	-	-	100

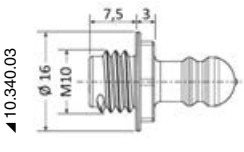
* *For flush mounting, drill a 2.5-mm deep bore on the 25/32-mm panel*

10.342.00 *Marking Pin to be used at the rear of the panel for mounting without measuring.*

◢ 10.342.00



◢ 10.340.04



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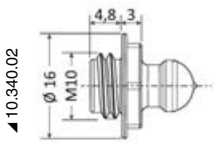

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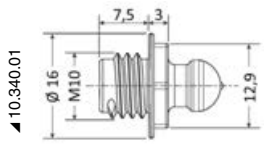

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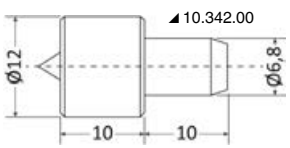

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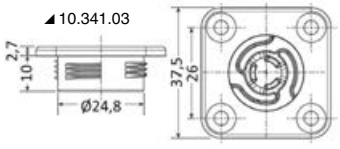

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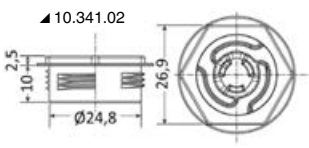

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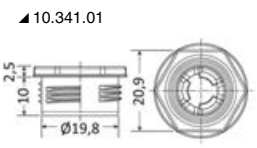


◢ 10.341.01

► NAVISAFE portable Navigation lights

NAVISAFE

Multifunctional Navigation lights, battery powered (3 x AAA), waterproof (IP68), submersible to 20 m, float light facing up, US Coast Guard approved for 2 nautical miles, superbright LEDs. Various mounting solutions available - magnet, suction cup and bayonet (Navimount).

NAVISAFE Navilight 360° All-round white light 2NM

5 operating modes: All-round/Anchor light (360°, 15hrs. burn time), Masthead light (225°, 24hrs. burn time), Sternlight (135°, 32hrs. burn time), Safety/Flashing light (360°, 85hrs. burn time), Cabin/ Courtesy light (72hrs. burn time). Dimensions: Ø68x35h-90mm (depending on model).

Code	Model
11.139.01	with magnetic base, straps and lanyards for multiple fixing and securing
11.139.04	with bayonet base (Navimount), base compatible with GoPro® camera mounts
11.139.06	with suction cup base, base compatible with GoPro® camera mounts

◢ 11.139.06

◢ 11.139.04

◢ 11.139.01

NAVISAFE Navilight Tricolour 2NM

5 operating modes: tricolor masthead light (135° white, 112.5° red, 112.5° green, 12h life), stern light (135°, 32h life), bicolour light (112.5° red, 112.5° green, 20h life), green light (112.5°, 38h life), red light (112.5°, 38h life). Dimensions: 68x35/90(h) mm depending on the model.

Code	Model
11.139.03	with magnetic base, straps and lanyards for multiple fixing and securing
11.139.05	with bayonet base (Navimount), base compatible with GoPro® camera mounts
11.139.07	with suction cup base, base compatible with GoPro® camera mounts

◢ 11.139.07

◢ 11.139.05

◢ 11.139.03

NAVISAFE mounting kit + pole + 360° light

Complete solution for small tenders, canoes, fishing boats that need a 360° white light.

Code	It contains
11.139.19	Navilight 360° 11.139.01; 4-pc pole; vertical support; neoprene carrying bag

NAVISAFE bracket for 25-mm Ø tube

11.139.33 Magnetic head to house 11.139.01/03/04/05.

NAVIMOUNT mounting system

For NAVISAFE Navilight 11.139.04 and 11.139.05.

Code	Description
11.139.11	horizontal support
11.139.12	horizontal support with self-adhesive rubber base for pneumatic boats
11.139.13	boats support for 25 or 35 mm rails

◢ 11.139.11

◢ 11.139.12

◢ 11.139.13

► 360° mooring light, poles and combined pole lights < 20 m, RINA and NMMA type-approved

Evoled Smart 360° LED mooring light

LED

For vessels < 20 m.

Code	Material	Colour	V
11.039.12	Plastic	White	12
11.039.13	Plastic	Black	12

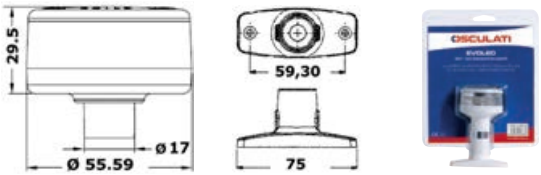
OSCULATI

Evoled 360° mooring light with LED light source

LED

COLREG72- and ABYC-A16-certified for vessels < 20-m long.
100-mm overall height.

Code	Body material	Body colour	V
11.039.16	Plastic	White	12
11.039.17	Plastic	Black	12
11.039.18	AISI316 stainless steel	SS	12



OSCULATI

Pole light with Evoled 360° light - Pull-out version with nylon/polished stainless steel base

LED

COLREG72- and ABYC-A16-certified for vessels < 20-m long.

Code	SS tube cm	Light colour	Base	V
11.039.40	100	White	SS + white	12
11.039.60	100	SS	SS + white	12

OSCULATI

Pole light with EVOLED 360° light - Pull-out version with wall-mounting stainless steel base

LED

COLREG72- and ABYC-A16-certified for vessels < 20-m long.

Code	SS tube cm	Light colour	Base	V
11.039.41	100	White	SS	12
11.039.61	100	SS	SS	12

OSCULATI

Pole light with EVOLED 360° light - Pull-out angular version with stainless steel base, flat mounting

LED

COLREG72- and ABYC-A16-certified for vessels < 20-m long.

Code	SS tube cm	Light colour	Base	V
11.039.42	60	White	SS	12
11.039.62	60	SS	SS	12
11.039.64	100	SS	SS	12
11.039.72	120	SS	SS	12

OSCULATI

Foldable pole light with hidden wires

LED

For vessels < 20-m long. Fitted with Evoled 360° light.
AISI316 stainless steel metal parts. Screw mounting.

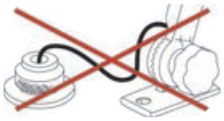
Code	Length cm	Light colour
11.039.80	60	White
11.039.81	60	SS

Foldable pole light with hidden wires

LED

For vessels up to 20-m long. Fitted with Evoled 360° light.
AISI316 stainless steel metal parts. Screw mounting.

Code	Length cm	Light colour
11.039.50	60	White
11.039.51	60	SS



Compact 360° mooring light

COLREG72- and ABYC-A16-certified for vessels < 20-m long.
Powered by a **small high-intensity 5W bulb** for very small external size, minimum heat emission and low current draw.

Body		Bulb included	Optional LED bulb
white	black		
11.412.16	**11.412.06**	14.412.00 - 12 V 5 W	**14.225.01**

Compact pole

Pole with stainless steel tube. For vessels < 20-m long.

Code	Length cm	Light colour	Halogen bulb included	
11.113.00	20	Black	**14.412.00**	- 12 V 5 W
11.113.02	20	White	**14.412.00**	- 12 V 5 W

Compact folding pole

For vessels < 20 m. Made **fully** of **stainless steel**.

Code	Type	Length cm	Colour	Halogen bulb included	
11.127.01	225° bow	60	Black	**14.412.00**	- 12V 5W
11.127.02	135° stern	40	Black	**14.412.00**	- 12V 5W
11.127.03*	360° anchor	60	Black	**14.412.00**	- 12V 5W
11.127.04*	360° anchor	60	White	**14.412.00**	- 12V 5W

Different lengths are available upon request, for a minimum order of 10 pieces.

Compact foldable pole with double light

Made fully of **stainles steel**; may be used as navigation lights at 225° and at 135° or as anchor lights at 360°.

Code	Length cm	Light colour	Halogen bulb included	
11.105.00	60	Black	**14.412.00**	- 12 V 5 W
11.105.01	25	Black	**14.412.00**	- 12 V 5 W

Compact 360° retractable pole

For vessels < 20 m. **AISI316 stainless steel** base with self-locking adjustment at various heights. **100% stainless steel**, it serves as flagstaff as well as stern light.

Code	Length cm	Light colour	Halogen bulb included	
11.141.00	60	Black	**14.412.00**	- 12 V 5 W
11.141.02	60	White	**14.412.00**	- 12 V 5 W

OSCULATI

Compact 360° wall-mounting pull-out pole

For vessels < 20-m long. Fully made of stainless steel, fitted with AISI 316 stainless steel wall mount base; clip-on fit with bottom contacts; watertight.

Code	Length cm	Light colour	Halogen bulb included
11.112.00	60	Black	**14.412.00** - 12 V 5 W
11.112.02	60	White	**14.412.00** - 12 V 5 W
11.112.03	100	Black	**14.412.00** - 12 V 5 W
11.112.04	100	White	**14.412.00** - 12 V 5 W

OSCULATI

Compact flat-mounting pull-out pole

For vessels < 20-m long. Made of mirror polished **stainless steel**, fitted with **stainless steel** "Flush Deck" base for deck mounting.

Code	Type	Length cm	Light colour	Base Ø mm	Pole Ø mm	Halogen bulb included
11.147.10	360° anchor	100	Black	60	20	**14.412.00** - 12 V 5 W
11.147.11	360° anchor	100	White	60	20	**14.412.00** - 12 V 5 W
11.148.10	225° bow	100	Black	60	20	**14.412.00** - 12 V 5 W

OSCULATI

Compact 360° angled pull-out pole

For vessels < 20-m long. AISI 316 stainless steel base with self-locking adjustment at various heights, **fully** made of **stainless steel**, serves as flag-staff as well as stern light.

Code	Length cm	Light colour	Base mm	Halogen bulb included
11.161.00	60	Black	115x60	**14.412.00** - 12 V 5 W
11.161.10*	100	Black	115x60	**14.412.00** - 12 V 5 W
11.161.02	60	White	115x60	**14.412.00** - 12 V 5 W

* *Made upon request for a minimum order of 20 pieces, available with **plastic** parts and **white** polycarbonate light.*

OSCULATI

Classic pull-out pole with bow light, made of aluminium

Fitted with flush mount **nylon** base, snap-in mounting activation; watertight base cap that closes the base when the pole is slipped-off, type-approved for < 20 metres.

Code	Length cm	Light colour	Pole Ø mm	Halogen gulb included	Optional LED bulb
11.121.02	100	White	30	**14.300.00**	**14.301.22**

OSCULATI

Classic pole with combined lights, made of aluminium

For vessels < 20-m long, with COLREG72-certified light.
Fitted with **black or white nylon** base, pole that snaps into the base and activates the light, and cap that closes the base when the pole is slipped off.
It comes with a 360° light as well as red/green navigation light.

Code	Length cm	Mounting	Light colour	Halogen bulb included
11.125.00	100	Flat recess	Black	**14.200.02; 14.300.00**
11.125.01	100	Flat recess	White	**14.200.02; 14.300.00**
11.126.00	100	Bulkhead	Black	**14.200.02; 14.300.00**
11.126.01	100	Bulkhead	White	**14.200.02; 14.300.00**

Classic pole with combined lights, made of stainless steel

AISI 316

For hulls < 20-m long with COLREG72-certified light.
Mirror-polished AISI316 stainless steel base and snap-in pole.

Code	Length cm	Mounting	Light colour	Halogen bulb included
11.166.01	100	Recess	Black	**14.200.02; 14.300.00**
11.166.02	100	Recess	White	**14.200.02; 14.300.00**
11.167.01	100	Bulkhead	Black	**14.200.02; 14.300.00**
11.167.02	100	Bulkhead	White	**14.200.02; 14.300.00**

11.166.02

11.167.01/02

11.167.01 · 11.166.02 · 11.167.02 · 11.166.01

Classic 360° mooring light

Polycarbonate and stainless steel version. For vessels <50 m.

Code	Light colour	Shank for pipe fitting	Ø mm	Height mm	Halogen bulb included
11.133.00	Black polycarbonate	-	60	74	**14.200.02** - 12 V 10 W
11.133.01	White polycarbonate	-	60	74	**14.200.02** - 12 V 10 W
11.133.03	Black polycarbonate	INCLUDED (for 20-mm Ø pipe)	60	74	**14.200.02** - 12 V 10 W
11.133.04	White polycarbonate	INCLUDED (for 20-mm Ø pipe)	60	74	**14.200.02** - 12 V 10 W
11.132.00	SS	-	64	74	**14.200.02** - 12 V 10 W
11.132.01	SS	INCLUDED (for 20-mm Ø pipe)	64	74	**14.200.02** - 12 V 10 W

11.133.00 · 11.133.01 · 11.133.03 · 11.133.04 · 11.132.00 · 11.132.01

360° mooring light

Made of polycarbonate. ABYC-A16-certified for vessels up to 20-m long.

Code	Body color	Ø mm	Height mm	Halogen bulb included
11.135.00	Black	81	103	**14.220.02** - 12 V 10 W
11.135.01	White	81	103	**14.220.02** - 12 V 10 W
11.135.10	Black	81	103	**14.220.03** - 24 V 10 W
11.135.11	White	81	103	**14.220.03** - 24 V 10 W

11.135.01/11 · 11.135.00/10

360° mooring light

Made of polycarbonate and mirror-polished AISI316 stainless steel.
ABYC-A16-certified for vessels < 20-m long.

Code	Version	Ø mm	Height mm	Halogen bulb included
11.136.00	-	85	106	**14.220.02** - 12 V 10 W
11.136.10	-	85	106	**14.220.03** - 24 V 10 W
11.136.20	With SS raised base	85	165	**14.220.02** - 12 V 10 W
11.136.21	With SS raised base	85	165	**14.220.03** - 24 V 10 W

11.136.20/21 · 11.136.00/10

Classic 360° mooring light with lifting base

COLREG72-certified for vessels < 20-m long.

Code	Light colour	Rise base mm	Ø mm	Height mm	Halogen bulb included
11.132.98	Black polycarbonate	77x38	60	74	**14.200.02** - 12 V 10 W
11.132.99	White polycarbonate	77x38	60	74	**14.200.02** - 12 V 10 W
11.132.02	SS	77x38x55(h)	64	74	**14.200.02** - 12 V 10 W

11.132.02 · 11.132.99 · 11.132.98

OSCULATI

Compact pole

Fpr vessels < 20-m long. Pole with stainless steel tube and COLREG72-certified light.

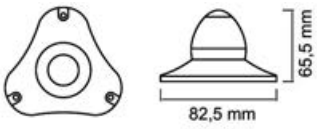
Code	Length cm	Light colour	Halogen bulb included
11.113.20	20	Black	**14.200.02** - 12 V 10 W
11.113.21	20	White	**14.200.02** - 12 V 10 W

OSCULATI

Sphera II 360° LED anchor light < 20 m

COLREG72- and ABYC-A16-certified for vessels up to 20-m long.

Type	ABS body		V	Consumption W
	black	white		
360° anchorage	**11.061.01**	**11.061.11**	12/24	2
360°	**11.061.02**	-	12/24	2



OSCULATI

Classic 360° folding pole

For vessels < 20 m. 100% stainless steel, base fitted with AISI316 stainless steel teeth for adjustment of the pole in any position.

Code	Length cm	Light colour	Bulb included
11.130.00	60	Black plastic	**14.200.02** - 12 V 10 W
11.130.01	60	SS	**14.200.02** - 12 V 10 W
11.130.02	60	White plastic	**14.200.02** - 12 V 10 W

OSCULATI

Aerodinamics foldable pole, adjustable pitch

For vessels < 20 m. 100% AISI316 stainless steel, with Aerodinamics base.

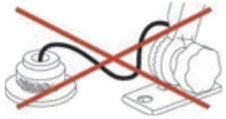
Code	Length cm	Light colour	Halogen bulb included
11.128.00	60	Black plastic	**14.200.02** - 12 V 10 W
11.128.01	60	SS	**14.200.02** - 12 V 10 W
11.128.02	60	White plastic	**14.200.02** - 12 V 10 W

OSCULATI

Classic 360° foldable pole light with hidden wires

For vessels < 20 m.

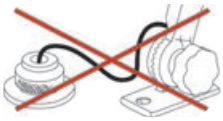
Code	Length cm	Light included	Light colour	Halogen bulb included
11.143.00	60	**11.133.03**	Black plastic	**14.200.02** - 12 V 10 W
11.143.02	60	**11.133.01**	White plastic	**14.200.02** - 12 V 10 W
11.143.01	60	**11.132.01**	SS	**14.200.02** - 12 V 10 W



Classic 360° foldable pole light with hidden wires

For vessels up to 20 m.

Code	Length cm	Light included	Light colour	Halogen bulb included
11.142.00	60	**11.133.03**	Black plastic	**14.200.02** - 12 V 10 W
11.142.02	60	**11.133.01**	White plastic	**14.200.02** - 12 V 10 W
11.142.01	60	**11.132.01**	SS	**14.200.02** - 12 V 10 W



Classic 360° retractable pole

For vessels up to 20 m. **AISI316 stainless steel** base with self-locking adjustment at various heights. The stainless steel pole also serves as flag holder.

Version		Length cm	Light colour	Base mm	Halogen bulb included
Standard	30° light				
11.140.00	**11.140.20**	60	Black plastic	115x60	**14.200.02** - 12 V 10 W
11.140.01	-	60	SS	115x60	**14.200.02** - 12 V 10 W
11.140.02	**11.140.22**	60	White plastic	115x60	**14.200.02** - 12 V 10 W

Classic 360° wall-mounting pull-out pole

For vessels up to 20 m. 100% stainless steel, fitted with **AISI316 stainless steel** wall mount base.
Clip-on fit with bottom contacts.
Watertight, bulb included.

Code	Length cm	Light colour	Halogen bulb included
11.110.00	60	Black plastic	**14.200.02** - 12 V 10 W
11.110.02	60	White plastic	**14.200.02** - 12 V 10 W
11.110.01	60	SS	**14.200.02** - 12 V 10 W
11.110.10	100	Black plastic	**14.200.02** - 12 V 10 W
11.110.12	100	White plastic	**14.200.02** - 12 V 10 W
11.110.11	100	SS	**14.200.02** - 12 V 10 W

Classic 360° pull-out pole made of aluminium

For vessels < 20 m.
Version A fitted with **black or white nylon** base for flat mounting.
Version B fitted with **black or white nylon** base for bulkhead mounting. Ideal for installation on the stern of dinghies or Boston Whaler-type open hulls.
The pole snaps into the base and activates the light.
Watertight base cap that closes the base when the pole is slipped-off.

Code	Regulatory length cm	Light/base colour	Version	Pole Ø mm	Halogen bulb included
11.120.00	100	Black	A	30	**14.200.02** - 12V 10W
11.120.01	100	White	A	30	**14.200.02** - 12V 10W
11.123.00	100	Black	B	30	**14.200.02** - 12V 10W
11.123.01	100	White	B	30	**14.200.02** - 12V 10W

OSCULATI

Classic 360° flat-mounting pull-out pole

For vessels < 20 m.
100% mirror-polished stainless steel and fitted with a Flush Deck **stainless steel** base.

Code	Length cm	Light colour	Base Ø mm	Pole Ø mm	Halogen bulb included
11.145.10	100	Black	60	20	**14.200.02** - 12V 10W

OSCULATI

Classic 360° pull-out pole

For vessels up to 20 m. Fitted with a special **AISI316 stainless steel** base.
The contact is activated by inserting the pole. When the pole is removed, the clip-on cover seals the hole in order to prevent electric poles from rusting.

Version		Length cm	Light colour	Base mm	Halogen bulb included
standard	with 30° light in axis				
11.160.00	**11.160.20**	60	Black plastic	85x50	**14.200.02** - 12 V 10 W
11.160.01	-	60	SS	85x50	**14.200.02** - 12 V 10 W
11.160.02	**11.160.22**	60	White plastic	85x50	**14.200.02** - 12 V 10 W

OSCULATI

Classic 360° pull-out pole with Advance base

AISI 316

For vessels < 20 m. Made of **polished AISI316 stainless steel**, fitted with **AISI316 stainless steel base and nylon rubber**. The contact is activated by inserting the pole; when the pole is removed, the clip-on cover seals the hole.

Code	Length cm	Light colour	Halogen bulb included
11.163.00	100	Black plastic	**14.200.02** - 12 V 10 W
11.163.01	100	SS	**14.200.02** - 12 V 10 W
11.163.02	100	White plastic	**14.200.02** - 12 V 10 W
11.164.00	60	Black plastic	**14.200.02** - 12 V 10 W
11.164.01	60	SS	**14.200.02** - 12 V 10 W
11.164.02	60	White plastic	**14.200.02** - 12 V 10 W

OSCULATI

Utility 360° mooring light

Made of polycarbonate, for vessels < 20 m.

Code	Light colour	Light colour	Base Ø mm	Height mm	Halogen bulb included
11.134.00	White	Black	60	90	**14.220.02** - 12 V 10 W
11.134.02	White	White	60	90	**14.220.02** - 12 V 10 W
11.134.01	Red*	Black	60	90	**14.220.04** - 12 V 15 W

* *Not Under Command.*

Classic 360° LED mooring light

OSCULATI

LED Polycarbonate and AISI316 stainless steel light. For vessels < 20-m long.

Code	Light colour	Shank for pipe fitting	Ø mm	Height mm	LED bulb included
11.133.10	Black polycarbonate	-	60	74	14.223.00 12/24 V - 1,7 W
11.133.11	White polycarbonate	-	60	74	14.223.00 12/24 V - 1,7 W
11.133.13	Black polycarbonate	INCLUDED (for 20-mm Ø tube)	60	74	14.223.00 12/24 V - 1,7 W
11.133.14	White polycarbonate	INCLUDED (for 20-mm Ø tube)	60	74	14.223.00 12/24 V - 1,7 W
11.132.10	Stainless steel	-	64	74	14.223.00 12/24 V - 1,7 W
11.132.11	Stainless steel	INCLUDED (for 20-mm Ø tube)	64	74	14.223.00 12/24 V - 1,7 W

11.133.10

11.133.11

11.133.13

11.133.14

11.132.10

11.132.11

Classic 360° LED mooring light with base

OSCULATI

LED For vessels < 20-m long.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Code	Light colour	Ø mm	Height mm	LED bulb included
11.132.88	Black polycarbonate	60	148	14.223.00 12/24 V - 1,7 W
11.132.89	White polycarbonate	60	148	14.223.00 12/24 V - 1,7 W
11.132.12	Stainless steel	64	154	14.223.00 12/24 V - 1,7 W

11.132.12

11.132.89

11.132.88

Foldable pole with micrometric adjustment and toothed base

OSCULATI

LED For vessels < 20-m long.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Code	Length cm	Light colour	LED bulb included
11.130.10	60	Black plastic	14.223.00 12/24 V - 1,7 W
11.130.11	60	White plastic	14.223.00 12/24 V - 1,7 W
11.130.12	60	SS	14.223.00 12/24 V - 1,7 W

11.130.12

11.130.11

11.130.10

Aerodinamics LED foldable pole, adjustable pitch.

LED For vessels < 20-m long.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Code	Length cm	Light colour	LED bulb included
11.128.10	60	Black plastic	14.223.00 - 12/24 V, 1.7 W
11.128.11	60	White plastic	14.223.00 - 12/24 V, 1.7 W
11.128.12	60	SS	14.223.00 - 12/24 V, 1.7 W

11.128.12

11.128.11

11.128.10

OSCULATI

Classic/LED foldable pole light with hidden wires and oval base plate

LED For vessels < 20 m. Polycarbonate and AISI316 stainless steel light. Stylized base plate with better grip knob. COLREG72-certified.

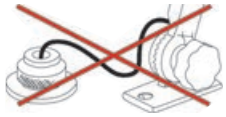
Code	Length cm	Light included	Light colour	LED bulb included
11.143.10	60	**11.133.00**	Black plastic	**14.223.00** 12/24 V, 1.7 W
11.143.12	60	**11.133.01**	White plastic	**14.223.00** 12/24 V, 1.7 W
11.143.11	60	**11.132.00**	SS	**14.223.00** 12/24 V, 1.7 W

OSCULATI

Classic/LED foldable pole light with hidden wires and rectangular base plate

LED For vessels < 20 m.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Code	Length cm	Light included	Light colour	LED bulb included
11.142.10	60	**11.133.00**	Black plastic	**14.223.00** 12/24 V, 1.7 W
11.142.12	60	**11.133.01**	White plastic	**14.223.00** 12/24 V, 1.7 W
11.142.11	60	**11.132.00**	SS	**14.223.00** 12/24 V, 1.7 W



Telescopic angled pole with flag eyelets

OSCULATI

LED For vessels < 20 metres. Thru-hull version. Made of polycarbonate and AISI316 stainless steel. COLREG72-certified.

Version		Length cm	Light colour	LED bulb included	
Standard	With 30° light				
11.140.10	**11.140.30**	60	Black plastic	**14.223.00**	12/24 V - 1,7 W
11.140.11	**11.140.31**	60	White plastic	**14.223.00**	12/24 V - 1,7 W
11.140.12	-	60	SS	**14.223.00**	12/24 V - 1,7 W
11.140.15	**11.140.35**	100	Black plastic	**14.223.00**	12/24 V - 1,7 W
11.140.16	**11.140.36**	100	White plastic	**14.223.00**	12/24 V - 1,7 W

Pull-out sloped pole with flag holding eyelets

OSCULATI

LED For vessels < 20-m long. Pull-out version. Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Version		Length cm	Light colour	LED bulb included	
Standard	With 30° light				
11.160.10	**11.160.30**	60	Black plastic	**14.223.00**	12/24 V - 1,7 W
11.160.11	**11.160.31**	60	White plastic	**14.223.00**	12/24 V - 1,7 W
11.160.12	-	60	Stainless steel	**14.223.00**	12/24 V - 1,7 W
11.160.15	**11.160.35**	100	Black plastic	**14.223.00**	12/24 V - 1,7 W
11.160.16	**11.160.36**	100	White plastic	**14.223.00**	12/24 V - 1,7 W

Built-in pull-out with flag holding eyelets

LED

For vessels < 20-m long.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Code	Length cm	Light colour	LED bulb included
11.145.20	100	Black plastic	**14.223.00** 12/24 V - 1,7 W
11.145.21	100	White plastic	**14.223.00** 12/24 V - 1,7 W

Wall-mounting pull-out pole with flag holding eyelets

LED

For vessels < 20-m long.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.

Code	Length cm	Light colour	LED bulb included
11.110.20	60	Black plastic	**14.223.00** 12/24 V - 1,7 W
11.110.22	60	White plastic	**14.223.00** 12/24 V - 1,7 W
11.110.21	60	SS	**14.223.00** 12/24 V - 1,7 W
11.110.30	100	Black plastic	**14.223.00** 12/24 V - 1,7 W
11.110.32	100	White plastic	**14.223.00** 12/24 V - 1,7 W
11.110.31	100	SS	**14.223.00** 12/24 V - 1,7 W

Advance pull-out pole with base

LED

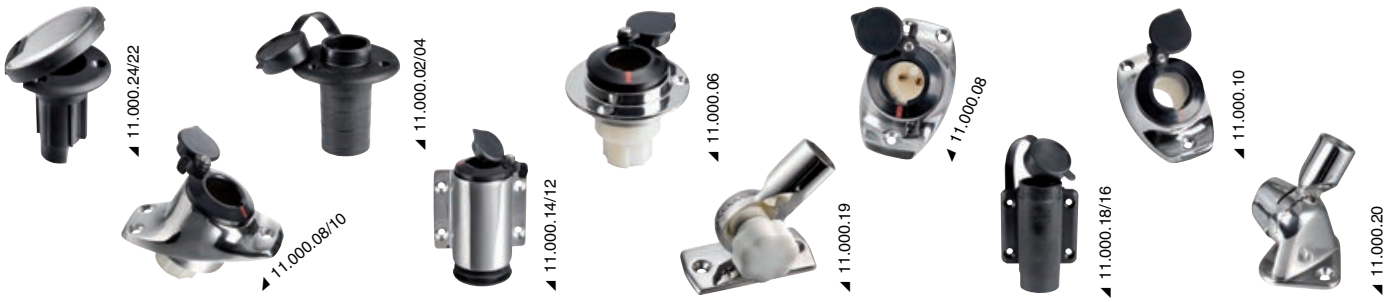
For vessels < 20-m long.
Polycarbonate and AISI316 stainless steel light. COLREG72-certified.
Automatic closure base cover.

Code	Length cm	Light colour	LED bulb included
11.164.10	60	Black plastic	**14.223.00** 12/24 V - 1,7 W
11.164.12	60	White plastic	**14.223.00** 12/24 V - 1,7 W
11.164.11	60	SS	**14.223.00** 12/24 V - 1,7 W
11.163.10	100	Black plastic	**14.223.00** 12/24 V - 1,7 W
11.163.12	100	White plastic	**14.223.00** 12/24 V - 1,7 W
11.163.11	100	SS	**14.223.00** 12/24 V - 1,7 W

Spare base for poles

OSCULATI

White	Black	Stainless steel	Type	Material	base mm	No of contacts
11.000.21	**11.000.22**	-	Recess fit on flat surface	Nylon + AISI316 SS cap	Ø 57	2
11.000.23	**11.000.24**	-	Recess fit on flat surface	Nylon + AISI316 SS cap	Ø 57	3
11.000.01	**11.000.02**	-	Recess fit on flat surface	Plastic	Ø 80.5	3
11.000.03	**11.000.04**	-	Recess fit on flat surface	Plastic	Ø 80.5	2
11.000.05	**11.000.06**	-	Straight, recess fit for pull-out poles	SS	Ø 60	2
11.000.07	**11.000.08**	-	Angled, recess fit for pull-out poles	SS	49x85	2
11.000.09	**11.000.10**	-	Angled, recess fit for telescopic poles	SS	49x85	-
11.000.11	**11.000.12**	-	Bulkhead	SS	60x64.5	3
11.000.13	**11.000.14**	-	Bulkhead	SS	60x64.5	2
11.000.15	**11.000.16**	-	Bulkhead	Nylon	70x72	3
11.000.17	**11.000.18**	-	Bulkhead	Nylon	70x72	2
11.000.19	-	-	Adjustable	SS	31x65	-
-	-	**11.000.20**	Adjustable Aerodinamics	SS	47.5x52	-



► Navigation lights up to 12 m

Polycarbonate navigation lights

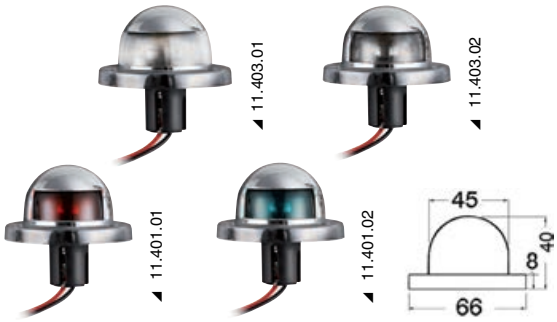
Made of **white polycarbonate** with **plexiglass** lens.

Code	Type	mm	Bulb		
			halogen, included	halogen, included	LED optional
11.507.01	112,5° + 112,5° bicolor	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**
11.507.02	112.5° left	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**
11.507.03	112.5° right	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**

Navigation lights made of stainless steel

AISI 316 Made of **mirror polished AIS-316 stainless steel**.

Code	Type	mm	Bulb		
			halogen, included	halogen, included	LED optional
11.507.05	112,5° + 112,5° bicolor	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**
11.507.06	112.5° left	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**
11.507.07	112.5° right	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**
11.507.08	225° bow	80x58x38h	**14.400.01**	- 12 V 8 W	**14.301.20**



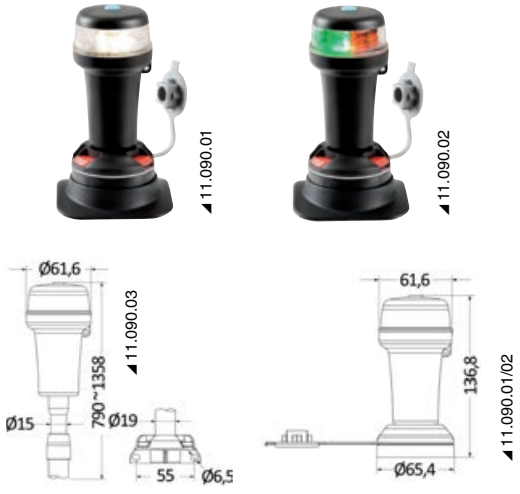
Utility navigation lights made of chromed ABS

Code	Type	Halogen bulb included	
11.403.01	225° bow	**14.200.00**	- 12 V 5 W
11.403.02	135° stern	**14.200.00**	- 12 V 5 W
11.401.01	112.5° left	**14.200.00**	- 12 V 5 W
11.401.02	112.5° right	**14.200.00**	- 12 V 5 W

Utility battery-powered navigation lights made of ABS

Made of **chromed ABS + black ABS**; clip-on installation through a nylon bracket; fitted with LR20 a 1.5 volt battery light, life of 15/30 hours (continuous/discontinuous operation).
It switches on by rotating the central part of the lantern.

Code	Description	Power	Duration of continuos/ discontinuos operation
11.137.01	3-piece set	a 1.5-V torch lamp	15/30 hours
11.137.04	360° mooring	a 1.5-V torch lamp	15/30 hours



Multipurpose independent navigation lights

Internally powered by 3 x AA batteries, duration up to 24 hours.
Floating and extractable. Floating and IP67 watertight. CE certified.

Code	Type	Functions	Accessories included
11.090.01	360° white	Continuous light Flash light	Adhesive base for rubber dinghies; round base for flat mounting; Click/Clack bayonet mounting system for installing lights on the bases
11.090.02	Bicolour red/green	Green light Red light Red+green combined light	Adhesive base for rubber dinghies; round base for flat mounting; Click/Clack bayonet mounting system for installing lights on the bases
11.090.03	White on 790/1358-mm telescopic pole	Continuous light Flash light	Base for Click/Clack snap mounting

LED navigation lights

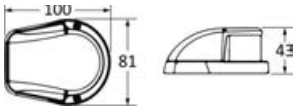
Dry-battery independent LED light. Approved by USCG and certificate ABYC-A16.

Code	Type	Model	Batteries
11.138.01	Rod with clamp	360° white	3 x "C"
11.138.02	Suction cup mounting	360° white	3 x "C"
11.138.03	Rod with clamp	360° white	3 x "AAA"
11.138.04	Suction cup mounting	360° white	3 x "AAA"

Red/green bicolour bow navigation lights

LED **IP66**

Code	Body colour	⟷ mm	V	W LED	Lumen	Matching poles
11.501.01	Black base, **white** cover	100x81	12/24	2.4	50	**11.140.10; 11.160.10**
11.501.02	Black base, **SS** cover	100x81	12/24	2.4	50	**11.163.10; 11.164.10**



◢ 11.501.01 ◢ 11.501.02

Red/green bicolour bow navigation lights made of ABS

Made of **chromed or white ABS**; plexiglass lens with lamp socket; elegant and functional.

Code	Body color	⟷ mm	Bulb included	Can be combined with poles
11.500.00	black base cap **chromed**	100x78	**14.200.00** - 12 V 5 W	**11.140.00; 11.160.00**
11.500.02	white base cap **white**	100x78	**14.200.00** - 12 V 5 W	**11.140.00; 11.160.00**

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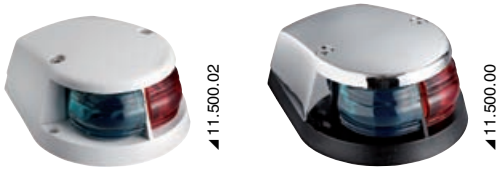

◢ 11.500.02 ◢ 11.500.00

Built-in side navigation lights made of ABS

Made of **ABS**, watertight.

Code	Type	Body	⟷ outside mm	Bulb included
11.129.01	112,5° left	black	192x65	**14.200.00** - 12 V 5 W
11.129.02	112,5° right	black	192x65	**14.200.00** - 12 V 5 W
11.129.11	112,5° left	white	192x65	**14.200.00** - 12 V 5 W
11.129.12	112,5° right	white	192x65	**14.200.00** - 12 V 5 W

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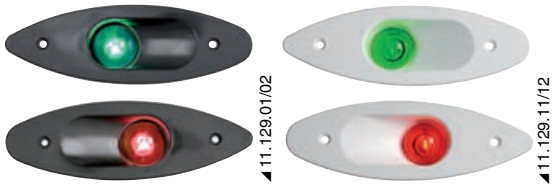


◢ 11.129.01/02 ◢ 11.129.11/12

Built-in stern lights made of ABS

Made of **ABS**, watertight; supplied with lamp holder.

Code	Body	⟷ mm	Bulb included
11.332.01	black	110x60	**14.200.00** - 12 V 5 W
11.332.11	white	110x60	**14.200.00** - 12 V 5 W

OSCULATI

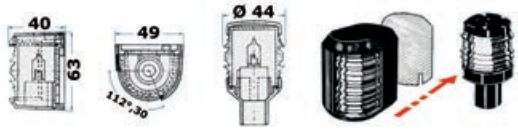
◢ 11.332.11 ◢ 11.332.01

Utility Compact navigation lights

RINA type-approved in compliance with COLREG72 standards. Suitable for vessels up to 12 metres. Powered by a **small high intensity 5W halogen bulb** for very compact size, minimum heat and low current draw. 2-screw mounting.

Type	Body		Bulb		
	white	black	halogen, included	halogen, included	LED optional*
112,5° left	**11.412.11**	**11.412.01**	**14.412.00**	- 12 V 5 W	**14.225.01**
112,5° right	**11.412.12**	**11.412.02**	**14.412.00**	- 12 V 5 W	**14.225.01**
225° bow	**11.412.13**	**11.412.03**	**14.412.00**	- 12 V 5 W	**14.225.01**
135° stern	**11.412.14**	**11.412.04**	**14.412.00**	- 12 V 5 W	**14.225.01**
112,5° + 112,5° bicolor	**11.412.15**	**11.412.05**	**14.412.00**	- 12 V 5 W	**14.225.01**
360° mooring, round	**11.412.16**	**11.412.06**	**14.412.00**	- 12 V 5 W	**14.225.01**

* *Not certified, with LED bulb.*



OSCULATI

◢ 11.412.11 ◢ 11.412.12 ◢ 11.412.13 ◢ 11.412.15

◢ 11.412.02 ◢ 11.412.04 ◢ 11.412.01 ◢ 11.412.02

◢ 11.412.06 ◢ 11.412.16 ◢ 11.412.06/16

OSCULATI

◢ 11.413.11

◢ 11.413.12

◢ 11.413.13

◢ 11.413.14

◢ 11.413.15

◢ 11.413.01

◢ 11.413.03

◢ 11.413.04

◢ 11.413.05

Utility Compact navigation lights for deck mounting

RINA type-approved in compliance with COLREG72 standards.
Suitable for vessels up to 12 metres. Powered by a **small high intensity 5W bulb** for very compact size, minimum heat and low current draw. 2-screw mounting.

Type	Body		Bulb		
	white	black	halogen, included	halogen, included	LED optional*
112,5° left	**11.413.11**	**11.413.01**	**14.412.00**	- 12 V 5 W	**14.225.01**
112,5° right	**11.413.12**	**11.413.02**	**14.412.00**	- 12 V 5 W	**14.225.01**
225° bow	**11.413.13**	**11.413.03**	**14.412.00**	- 12 V 5 W	**14.225.01**
135° stern	**11.413.14**	**11.413.04**	**14.412.00**	- 12 V 5 W	**14.225.01**
112,5° + 112,5° bicolor	**11.413.15**	**11.413.05**	**14.412.00**	- 12 V 5 W	**14.225.01**

* *Not certified, with LED bulb.*

◢ 11.413.01

◢ 11.413.02

OSCULATI

◢ 11.425.01

◢ 11.425.01

◢ 11.425.02

◢ 11.425.03

◢ 11.425.04

◢ 11.425.05

◢ 11.415.01

◢ 11.415.02

◢ 11.415.02

Utility 77 navigation lights

Type-approved lights for vessels up to 12-m long.
RINA type-approval in compliance with the COLREG72 regulations. Recommended for medium size boats, 100% watertight, easy to install. Supplied with lamp sockets and bulbs.

Type	Body		Granted visibility	Bulb		
	white	black		halogen, included	halogen, included	LED optional*
112.5° left	**11.425.01**	**11.415.01**	up to 1 mile	**14.300.00**	- 12 V 10 W	**14.301.22**
112.5° right	**11.425.02**	**11.415.02**	up to 1 mile	**14.300.00**	- 12 V 10 W	**14.301.22**
225° bow	**11.425.03**	**11.415.03**	up to 2 miles	**14.300.00**	- 12 V 10 W	**14.301.22**
135° stern	**11.425.04**	**11.415.04**	up to 2 miles	**14.300.00**	- 12 V 10 W	**14.301.22**
112,5° + 112,5° bicolor	**11.425.05**	**11.415.05**	up to 1 mile	**14.300.00**	- 12 V 10 W	**14.301.22**

* *Not certified, with LED bulb.*

◢ 11.415.03

◢ 11.415.04

◢ 11.415.05

OSCULATI

◢ 11.414.01

◢ 11.414.01

◢ 11.414.02

◢ 11.414.03

◢ 11.414.04

◢ 11.414.05

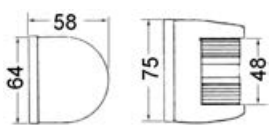
Utility 85 navigation lights made of stainless steel

AISI 316

Lights made of **mirror-polished stainless steel**.
RINA type-approved in compliance with the COLREG72 regulations.

Code	Type	Halogen		
		bulb included	bulb included	LED optional*
11.414.01	112.5° left	**14.300.00**	- 12 V 10 W	**14.301.22**
11.414.02	112.5° right	**14.300.00**	- 12 V 10 W	**14.301.22**
11.414.03	225° bow	**14.300.00**	- 12 V 10 W	**14.301.22**
11.414.04	135° stern	**14.300.00**	- 12 V 10 W	**14.301.22**
11.414.05	112.5° + 112.5° bicolor	**14.300.00**	- 12 V 10 W	**14.301.22**

* *Not certified, with LED bulb.*



Navigation lights

Certified by

and

Selected by the major OEM's

For our design, and reliable collaboration over many years, the worlds most prestigious boat yards trust in Osculati.

In-house production

- Quality and control
- Reliable delivery times
- Up to date with the latest regulations
- We can configure the navigation lights to your specification

MADE IN ITALY

Custom options available

► Sphera Design navigation lights up to 12 metres, RINA- and NMMA-certified

Compact 12 navigation lights

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COLREG72- and ABYC-A16-certified.

Type	Body			Festoon bulb included	V
	white	black	grey RAL 7042		
112.5° left	11.408.11	11.408.01	11.408.61	14.400.00	12
112.5° right	11.408.12	11.408.02	11.408.62	14.400.00	12
225° bow	11.408.13	11.408.03	11.408.63	14.400.00	12
135° stern	11.408.14	11.408.04	11.408.64	14.400.00	12

◢ 11.408.11

◢ 11.408.12

◢ 11.408.13

◢ 11.408.14

◢ 11.408.01

◢ 11.408.02

◢ 11.408.02

◢ 11.408.03

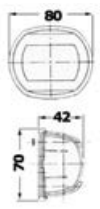
◢ 11.408.04

◢ 11.408.61

◢ 11.408.62

◢ 11.408.63

◢ 11.408.64



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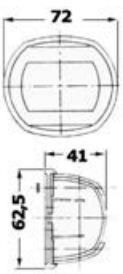
◢ 11.406.01

◢ 11.406.02

◢ 11.406.03

◢ 11.406.04



Compact 12 navigation lights made of mirror-polished AISI316 stainless steel

AISI 316 COLREG72- and ABYC-A16-certified.

Code	Type	Festoon bulb included	V
11.406.01	112.5° left	14.400.00	12
11.406.02	112.5° right	14.400.00	12
11.406.03	225° bow	14.400.00	12
11.406.04	135° stern	14.400.00	12

Compact 12 LED navigation lights

OSCULATI

LED COLREG72- and ABYC-A16-certified

Type	Body			LED light bulb included	V	W
	white	black	grey RAL 7042			
112.5° left	11.448.11	11.448.01	11.448.61	14.300.40	12	0.8
112.5° right	11.448.12	11.448.02	11.448.62	14.300.41	12	0.8
135° stern	11.448.14	11.448.04	11.448.64	14.300.41	12	0.8

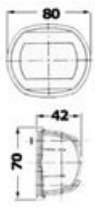
◢ 11.448.11

◢ 11.448.12

◢ 11.448.14

◢ 11.448.01

◢ 11.448.02



◢ 11.448.04

◢ 11.448.61

◢ 11.448.62

◢ 11.448.64

◢ 14.300.41

◢ 14.300.40

Compact 12 LED navigation lights made of mirror-polished AISI316 stainless steel

AISI 316 **LED**

COLREG72- and ABYC-A16-certified for vessels up to 12-m long.

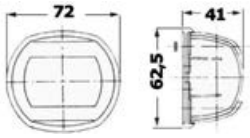
Code	Type	LED light bulb included	V	W
11.446.01	112.5° left	14.300.40	12	0.8
11.446.02	112.5° right	14.300.41	12	0.8
11.446.04	135° stern	14.300.41	12	0.8

◢ 14.300.40 ◢ 14.300.41

OSCULATI

◢ 11.446.01

◢ 11.446.02

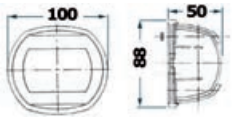


◢ 11.446.04

Classic 12 navigation lights

COLREG72- and ABYC-A16-certified for vessels up to 20-m long.

Type	Body		Festoon bulb included	V	W
	white	black			
112.5° left	11.410.11	11.410.01	14.300.00	12	10
112.5° right	11.410.12	11.410.02	14.300.00	12	10
225° bow	11.410.13	11.410.03	14.300.00	12	10
135° stern	11.410.14	11.410.04	14.300.00	12	10



◢ 11.410.02

◢ 11.410.03

◢ 11.410.04

OSCULATI

◢ 11.410.11

◢ 11.410.12

◢ 11.410.13

◢ 11.410.14

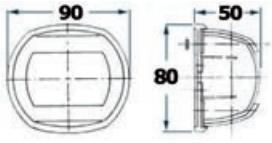
◢ 11.410.01

◢ 11.410.02

Classic 12 navigation lights made of mirror-polished AISI316 stainless steel

AISI 316 COLREG72- and ABYC-A16-certified for vessels up to 12-m long.

Code	Type	Festoon bulb included	V	W
11.407.01	112,5° left	14.300.00	12	10
11.407.02	112,5° right	14.300.00	12	10
11.407.03	225° bow	14.300.00	12	10
11.407.04	135° stern	14.300.00	12	10



OSCULATI

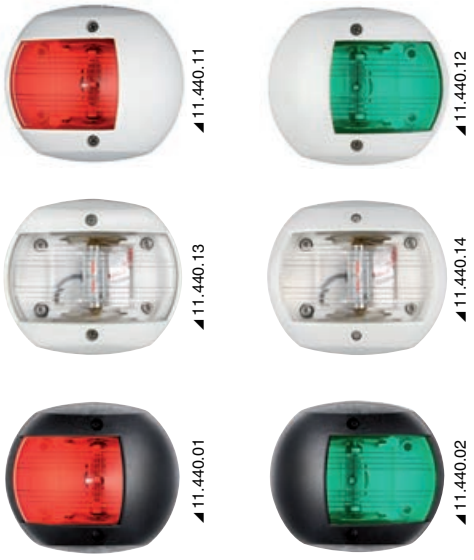
◢ 11.407.01

◢ 11.407.02

◢ 11.407.03

◢ 11.407.04

► Sphera Design lights up to 20 m, RINA and NMMA approved

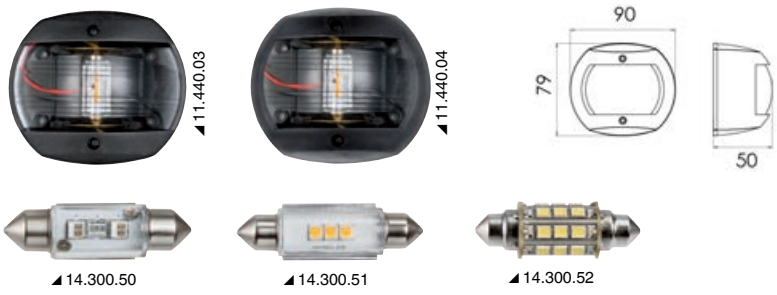


Classic 20 LED navigation lights

LED

COLREG72-certified for vessels up to 20-m long.

Type	Case white	Case black	Bulb included	V	W
112.5° left	11.440.11	11.440.01	14.300.50	12	0.8
112.5° right	11.440.12	11.440.02	14.300.51	12	0.8
225° bow	11.440.13	11.440.03	14.300.52	12	0.8
135° stern	11.440.14	11.440.04	14.300.51	12	0.8



OSCULATI

Classic 20 LED navigation lights made of mirror-polished AISI316 stainless steel

LED **AISI 316**

COLREG72-certified for vessels up to 20-m long.

Code	Type	Bulb included	V	W
11.447.01	112.5° left	14.300.50	12	0.8
11.447.02	112.5° right	14.300.51	12	0.8
11.447.03	225° bow	14.300.52	12	0.8
11.447.04	135° stern	14.300.51	12	0.8

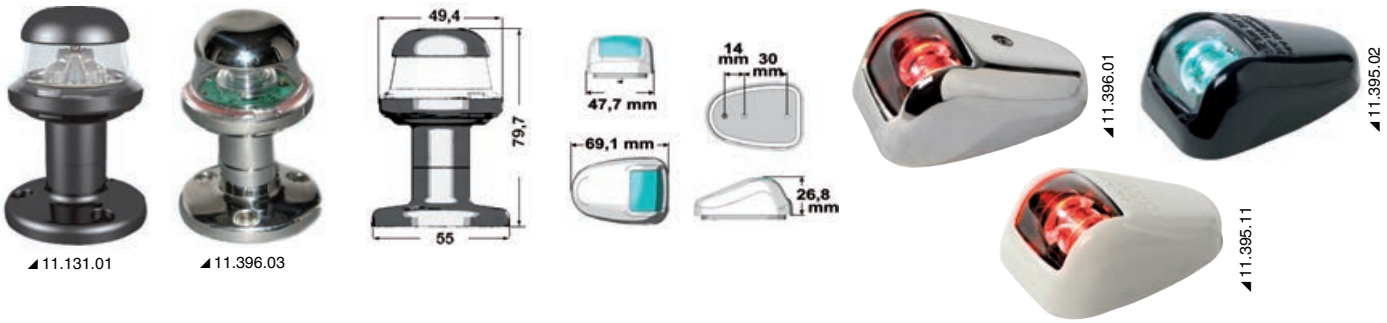
► Navigation LED lights "ORIONS" up to 20 m

Orions navigation lights

LED

COLREG72-certified for vessels up to 20-m long. Reverse-polarity protection.

Type	AISI 316 stainless steel body	Plastic body white	Plastic body black	Voltage universal	MAX absorption	Average lifetime h
360° masthead	11.396.03	11.131.02	11.131.01	12/24 V	3 W	10.000
112,5° left	11.396.01	11.395.11	11.395.01	12/24 V	1 W	10.000
112,5° right	11.396.02	11.395.12	11.395.02	12/24 V	1 W	10.000



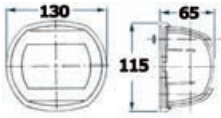
► Sphera Design navigation lights up to 12 metres, RINA- and NMMA-certified

Maxi 20 navigation lights

OSCULATI

COLREG72-certified for vessels up to 20-m long.

Version	White body		Black body		12V 12W halogen bulb included	24V 15W halogen bulb included	Optional 12V LED bulb
	12V	24V	12 V	24 V			
112.5° left	11.411.11	11.411.31	11.411.01	11.411.21	14.202.12	14.202.24	14.301.24
112.5° right	11.411.12	11.411.32	11.411.02	11.411.22	14.202.12	14.202.24	14.301.24
225° bow	11.411.13	11.411.33	11.411.03	11.411.23	14.202.12	14.202.24	14.301.24
135° stern	11.411.14	11.411.34	11.411.04	11.411.24	14.202.12	14.202.24	14.301.24



◢ 11.411.11

◢ 11.411.11

◢ 11.411.12

◢ 11.411.13

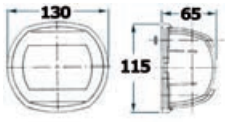
Maxi 20 navigation lights made of mirror-polished AISI316 stainless steel

OSCULATI

AISI 316 COLREG72 certified, for boats up to 20 m.

Type	Code		12V 15W halogen bulb included	24V 15W halogen bulb included	12V LED bulb optional *
	12 V	24 V			
112.5° left	11.411.71	11.411.81	14.202.12	14.202.24	14.301.24
112.5° right	11.411.72	11.411.82	14.202.12	14.202.24	14.301.24
225° bow	11.411.73	11.411.83	14.202.12	14.202.24	14.301.24
135° stern	11.411.74	11.411.84	14.202.12	14.202.24	14.301.24

* *Not certified, with LED bulb.*



◢ 11.411.71

◢ 11.411.72

◢ 11.411.73

◢ 11.411.74

► Discovery navigation lights up to 20 m

Discovery navigation lights

LED COLREG72-certified for vessels up to 20-m long.

Code	Type	V	W	Visibility N.M.
11.477.01	112.5° left	12/24	1	2
11.477.02	112.5° right	12/24	1	2
11.477.04	135° stern	12/24	1	2
11.477.05	112.5° left + 112.5 right	12/24	1	2
11.477.07	360° mast head	12/24	1.8	2
11.477.08	360° mast head + three colours	12/24	4.8	2

◢ 11.477.01

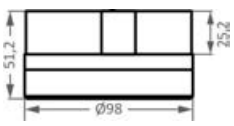
◢ 11.477.02

◢ 11.477.05

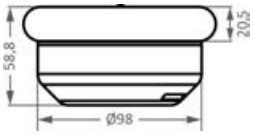
◢ 11.477.07

◢ 11.477.08

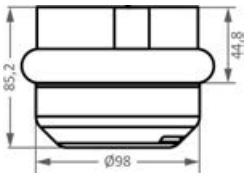
◢ 11.477.04



◢ 11.477.01/02/04/05



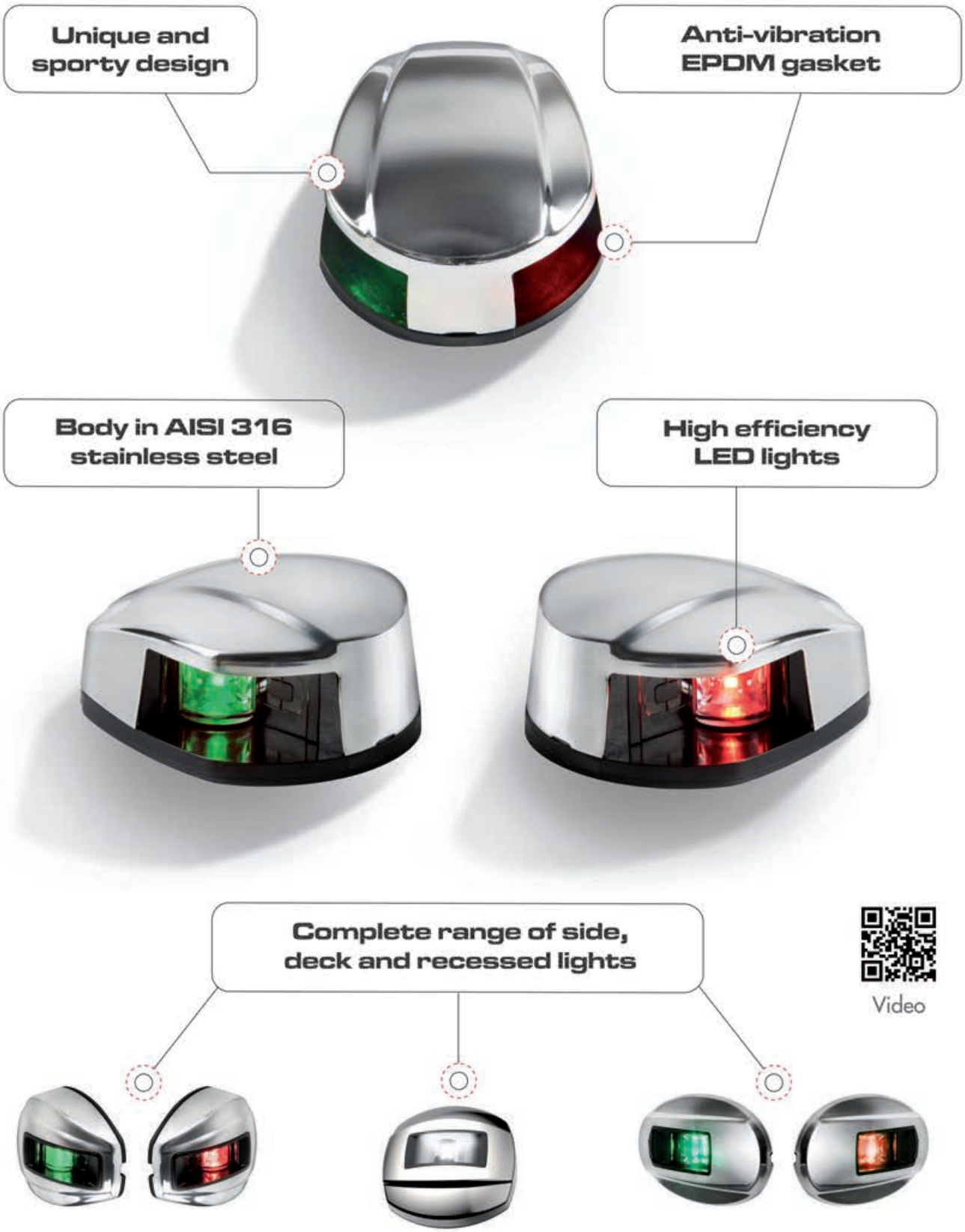
◢ 11.477.07



◢ 11.477.08

NEMO series navigation lights

RINA certified for boats up to 20 m



► Nemo navigation lights up to 20 m, RINA type-tested

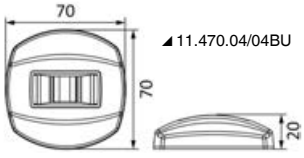
New Nemo LED navigation lights for vertical mounting

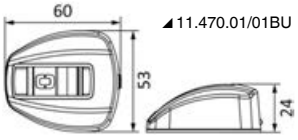
LED AISI 316

Black polycarbonate body and mirror-polished AISI316 stainless steel case.
Easy to install on both the hull and the deck.
RINA type-approved in compliance with the COLREG72 regulations.
For vessels up to 20 metres with visibility not exceeding 2NM.

Blister	Bulk 6 pcs/pair	Content	Light colour	Visibility NM	V	W
11.470.01	11.470.01BU	Pair of lights	+ 112,5° left + 112,5° right	2	12	0.4+0.4
11.470.04	11.470.04BU	Single light	135° stern	2	12	0.4

OSCULATI





New Nemo LED navigation lights for recess mounting

LED AISI 316

Black polycarbonate body and mirror-polished AISI316 stainless steel case.
Easy to install on both the hull and the deck.
For the correct adjustment of the light body, it is recommended to install it on a surface angled at 22° again the axis of the bow.
RINA type-approved in compliance with the COLREG72 regulations.
For vessels up to 20 metres with visibility not exceeding 2NM.

Retail	Bulk 6 pais	Content	Light colour	Visibility NM	V	W
11.473.01	11.473.01BU	Couple of lights	+ 112,5° left + 112,5° right	2	12	0.4+0.4

OSCULATI

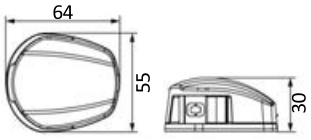
New Nemo LED navigation lights for horizontal mounting

LED AISI 316

Black PVC body and mirror-polished AISI316 stainless steel case.
Easy to install on both the hull and the deck.
RINA type-approved in compliance with the COLREG72 regulations.
For vessels up to 20 metres with visibility not exceeding 2NM.

Retail	Bulk 6 pcs/pair	Content	Light colour	Visibility NM	V	W
11.480.01	11.480.01BU	Couple of lights	+ 112,5° left + 112,5° right	2	12	0,4+0,4
11.480.03	11.480.03BU	Single light	225° stern	3	12	0.4
11.480.05	11.480.05BU	Single light	112,5° + 112,5° bicolour	2	12	0.4

OSCULATI



► Navigation lights

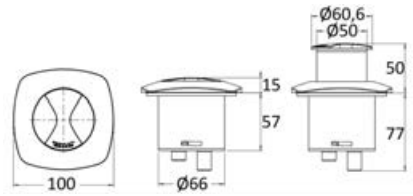
OSCULATI

Borea push up LED navigation light for hulls up to 20 m

AISI 316 **LED**

Technopolymer + mirror-polished AISI316 stainless steel body.
Slightly rotate the upper stainless steel plate to raise the light to its use position.
Conforming to Colreg'72, ABYC and CE standards.

Code	V	Version	Visibility	For hulls up to m
11.053.05	12/24	112.5° left + 112.5° right	2 NM	20



CE

◢11.038.01

◢11.038.02

◢11.038.21

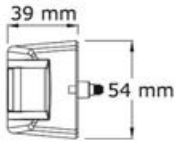
◢11.038.22

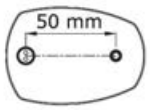
Mouse LED navigation lights up to 20 m.

LED

For vessels up to 20-m long.

Type	White polycarbonate body	Polished SS body	V	W	Visibility NM
112.5° left	**11.038.01**	**11.038.21**	12	0.7	2
112.5° right	**11.038.02**	**11.038.22**	12	0.4	2





◢11.038.21/22

◢11.038.01/02

CE

◢11.037.01

◢11.037.05

◢11.037.02

◢11.037.02

◢11.037.21

◢11.037.25

Mouse Deck navigation lights up to 20 m.

LED

ABYC-A16-certified for vessels up to 20-m long.

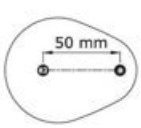
Type	White polycarbonate body	Polished SS body	V	W	Visibility NM
112,5° + 112,5° bicolour	**11.037.05**	**11.037.25**	12	1.1	2
112.5° left	**11.037.01**	**11.037.21**	12	0.7	2
112.5° right	**11.037.02**	**11.037.22**	12	0.4	2

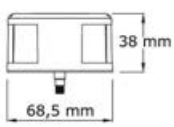
◢11.037.22

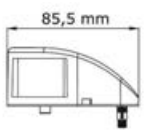
◢11.037.25/21/22

◢11.037.05/01/02

◢11.037.22







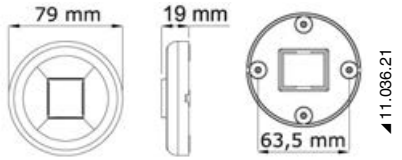
Mouse Stern navigation lights up to 20 m.

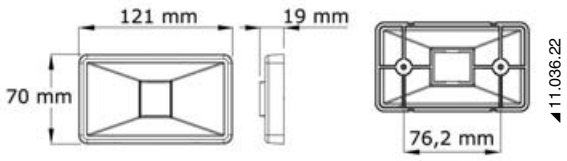
LED

CE

ABYC-A16 certified for mounting on the transom.

Type	SS body	V	W	Visibility NM
Round	**11.036.21**	12	0.32	2
Rectangular	**11.036.22**	12	0.32	2





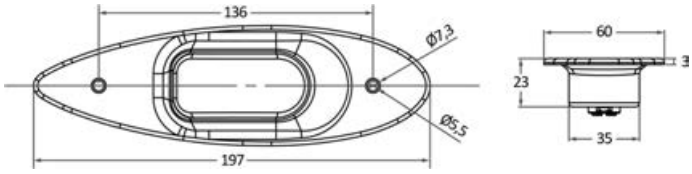
Evoled Eye low consumption LED navigation lights made of mirror-polished stainless steel for built-in bulkhead mounting

OSCULATI

LED

COLREG72-certified for vessels up to **20-m long**.

Code	Type	V	Length	Height	Depth	Recess hole
11.043.24	+ 112.5° left + 112.5° right	12	197 mm	60 mm	23 mm	70x35 mm



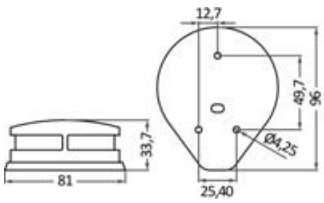
Evoled low consumption LED navigation lights made of stainless steel for flat mounting

OSCULATI

LED

COLREG72-certified for vessels up to **20-m long**.

Code	Type	V
11.041.24	+ 112.5° left + 112.5° right	12
11.041.21	112,5° + 112,5° bicolor	12



OSCULATI

Sea-Dog stainless steel LED navigation lights.

AISI 316 COLREG72-certified. 100% AISI 304 stainless steel and polycarbonate body.

Type	Version for hulls up to 12 m - 12 V	Version for hulls up to 20 m - 12/24 V	Mounting
112,5° left	**11.050.01**	**11.051.01**	flat
112,5° right	**11.050.02**	**11.051.02**	flat
112,5° + 112,5° bicolor	**11.050.03**	**11.051.03**	flat
225° white	**11.050.04****	**11.051.04****	flat
112,5° left	**11.048.01**	**11.049.01**	bulkhead
112,5° right	**11.048.02**	**11.049.02**	bulkhead
135° stern	-	**11.052.02***	bulkhead

* *11.052.02 12V only*

** *Not type-tested.*

◢ 11.050-051.04

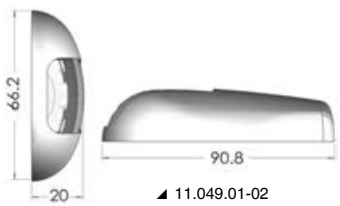
◢ 11.050-051.03

◢ 11.048.01/11.049.01

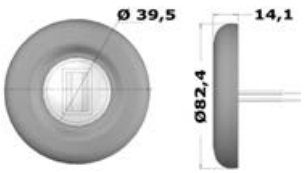
◢ 11.048.02/11.049.02

◢ 11.050.01/02 - 11.051.01/02

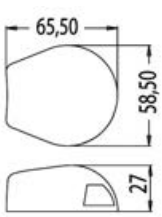
◢ 11.052.02



◢ 11.049.01-02



◢ 11.052.02



◢ 11.050-051.xx

◢ 11.048.xx - 11.049.xx

◢ 11.050.xx

OSCULATI

◢ 11.039.01

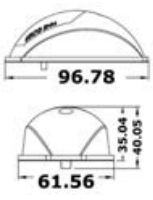
◢ 11.039.21

EVOLED navigation lights with low-consumption LED light source

LED COLREG72-certified for vessels up to 12-m long.

Type	White polycarbonate body	Black polycarbonate body	Polished stainless steel body	V
112.5° left + 112.5° right	**11.039.01**	**11.039.02**	**11.039.21**	12
135° stern	**11.039.14**	-	**11.039.24**	12

◢ 11.039.02



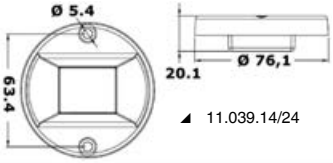
◢ 11.039.01/21/02

◢ 11.039.14

◢ 11.039.24

◢ 11.039.14

◢ 11.039.01



◢ 11.039.14/24

► Lights up to 20 m

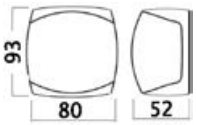
Sphera III navigation LED light up to 20 m

OSCULATI

LED

Mirror-polished stainless steel cover.
Polycarbonate rear element and lens.
COLREG72-certified for vessels up to 20 m.

Code	Type	V	W	Range miles
11.062.21	112.5° left	12/24	1.0	2
11.062.22	112.5° right	12/24	1.0	2
11.062.25	112.5° + 112.5° bicolour	12/24	2.8	2
11.062.23	225° bow	12/24	1.5	3
11.062.24	135° stern	12/24	1.0	2



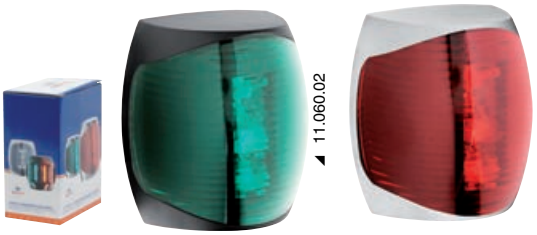
Sphera II LED navigation lights up to 20 m, polycarbonate body

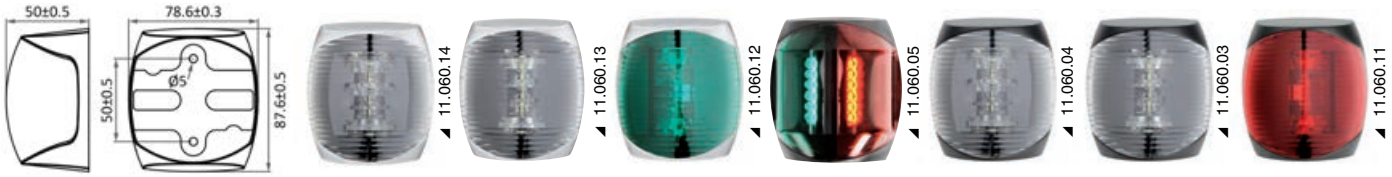
OSCULATI

LED

COLREG72-certified for vessels up to 20-m long. 100% watertight.

Type	Body black	Body white	V	Consumption W
112,5° left	**11.060.01**	**11.060.11**	12/24	0.6
112,5° right	**11.060.02**	**11.060.12**	12/24	0.7
112,5° + 112,5° bicolor	**11.060.05**	**11.060.15**	12/24	2
225° bow	**11.060.03**	**11.060.13**	12/24	2
135° stern	**11.060.04**	**11.060.14**	12/24	2





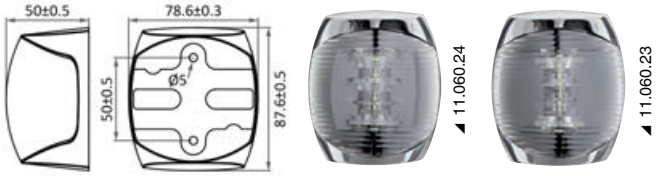
Sphera II LED navigation lights up to 20 m, mirror-polished stainless steel body

OSCULATI

LED

COLREG72-certified for vessels up to 20 metres. Fully watertight.

Body	Type	V	Consumption W
11.060.21	112,5° left	12/24	0.6
11.060.22	112,5° right	12/24	0.7
11.060.25	Bicolored 112,5° + 112,5°	12/24	2
11.060.23	Bow 225°	12/24	2
11.060.24	Stern 135°	12/24	2



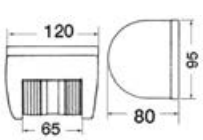
Utility 78 navigation lights

OSCULATI

Made of polycarbonate, fitted with plexiglass lens. COLREG72-certified for vessels up to 20-m long.

Type	Body white 12V	Body white 24V	Body black 12V	Body black 24V
112.5° left	**11.427.01**	**11.427.11**	**11.417.01**	**11.417.11**
112.5° right	**11.427.02**	**11.427.12**	**11.417.02**	**11.417.12**
225° masthead white	**11.427.03**	**11.427.13**	**11.417.03**	**11.417.13**
135° stern white navigation	**11.427.04**	**11.427.14**	**11.417.04**	**11.417.14**
112,5° + 112,5° bicolor	**11.427.05**	**11.427.15**	**11.417.05**	**11.417.15**

A 12 V, 25 W (14.220.00) - a 24 V, 25 W (14.220.01) - a 12 V, 10 W (14.220.02) - a 24 V, 10W (14.220.03)

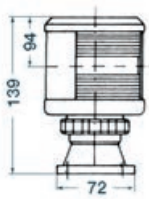


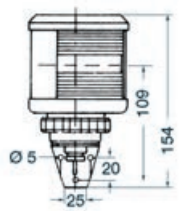
► Navigation lights up to 20 and 50 m

DHR navigation lights for hulls up to 20 metres with MED 96/98 - EC type-testing

Also type-tested for Marina Mercantile. Made of **black polycarbonate and stainless steel.**
Equipped with vertical filament bulb.

Code	Type	Version	Bulb included	Spare halogen lamp			
				12V		24V	
11.420.01	112.5° left	with bulkhead bracket	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.02	112.5° right	with bulkhead bracket	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.03	225° bow	with bulkhead bracket	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.04	135° stern	with bulkhead bracket	10 W - 24 V	**14.220.02**	- 12 V 10 W	**14.220.03**	- 24 V 10 W
11.420.05	112,5° + 112,5° bicolor	with bulkhead bracket	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.06	135°	with bulkhead bracket	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.07	360°	circular with base	10 W - 24 V	**14.220.02**	- 12 V 10 W	**14.220.03**	- 24 V 10 W
11.420.08	360°	circular with base	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.09	360°	circular with base	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W
11.420.18*	360°	with bracket to be suspended over and beneath	25 W - 24 V	**14.220.00**	- 12 V 25 W	**14.220.01**	- 24 V 25 W





DHR navigation lights for hulls up to 50-m long, with MED 2014/90/EU type-testing

Also type-tested for Marina Mercantile. Made of black polycarbonate and stainless steel.
Equipped with vertical filament bulb.

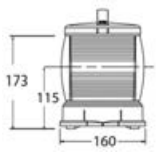
◢ 11.418.03

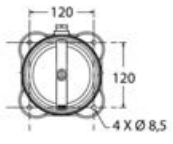
◢ 11.418.01-02-04-05

◢ 11.418.06

Code	Type	Version	Bulb included	
11.418.01*	112.5° left	with base	**14.220.01**	- 24 V - 25 W
11.418.02*	112.5° right	with base	**14.220.01**	- 24 V - 25 W
11.418.03*	225° bow	with base	**14.220.01**	- 24 V - 25 W
11.418.04*	135° stern	with base	**14.220.01**	- 24 V - 25 W
11.418.05*	135°	with base	**14.220.01**	- 24 V - 25 W
11.418.06	360°	circular with base	**14.220.01**	- 24 V - 25 W
11.418.07	360°	circular with base	**14.220.01**	- 24 V - 25 W
11.418.08	360°	circular with base	**14.220.01**	- 24 V - 25 W

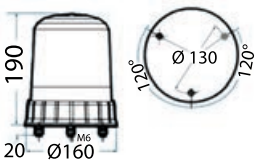
* **11.418.10** *Wall bracket kit*





Blue lights for emergency vehicles

Equipped with high quality electronic and mechanical circuits.



Code	V	Version	Halogen lamp
11.096.12	12	**Turning series** (160 +/-30 rpm)	H1
11.096.24	24	**Turning series** (160 +/-30 rpm)	H1
11.097.00	12/24	With high-intensity **strobo flash** (130 +/-10 flash/minute)	-

► Bathyscopes

Demountable bathyscope

OSCULATI

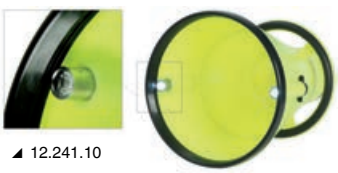
REGISTERED DESIGN / DISEGNO DEPOSITATO

This bathyscope can be disassembled in 4 parts. Tempered glass viewer, soft grip and eyepiece.
Available in standard and night/day version with **underwater lighting system fitted with 2 LED lights.**

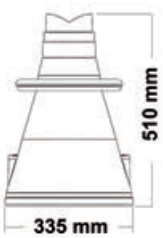
Code	Version	Description	Duration	OPTIONAL spare torches	OPTIONAL padded bag*
12.241.00	Classic	For day use	-	**-**	**12.241.40**
12.241.10	Day/Night	For day/night use, equipped with 2 powerful self-powered built-in LED spot lights (6 x AAA batteries)	6 continuous hours	**12.241.02** 1 pair	**12.241.40**

* **12.241.40** *Bathyscope padded bag for light and battery storage OPTIONAL*

◢ 12.241.00/10



◢ 12.241.10



REGISTERED COMMUNITY DESIGN
- No. 002305300-0003

◢ 12.241.40

Padded bag
- Always protected while not in use. (Optional).

Night & day version
- Two LED lights provide underwater lighting.

◢ 12.241.02

► LED torches

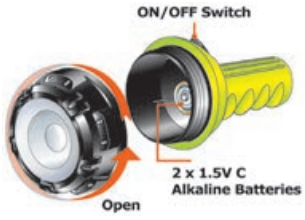
OSCULATI

Sub-Extreme underwater LED torch

LED Equipped with Cree high-efficiency LED, watertight up to 30 m.

IPX8

Code	Watertight up to m	Lumen	Range m	Life	Flash mode	Body colour	mm	Batteries
12.170.02	30	300	45	3.5	No	Fluo yellow	182x89	2 C (not included)



Extreme and Extreme plus watertight LED torch

LED Fit with Cree XRE high-efficiency LEDs, watertight up to 1 m.
Three operating modes: **full light, low light, flash.**

IPX7

Code	Version	Watertight up to m	Lumen/Candles		Range m		Duration h in full light / half light / flash mode	Body color	mm	Batteries	g
			Full light	Half light	Full light	Half light					
12.170.10	Extreme	1	250/24000	35/3200	300	110	33/100/180	Fluo yellow	146x160; Ø 75	3 C (not included)	513
12.170.11	Extreme plus	1	820/87000	75/5200	590	140	3/200/120	Fluo yellow	169x183; Ø 92	4 C (not included)	815

New Extreme Plus watertight and rechargeable LED torch

LED **IP67**

Technical features:
- rechargeable low-voltage lithium battery with USB cable included;
- 1A current draw for use of any USB sockets (i.e. 14.516xx/14517.xx);
- small USB port for recharge and large USB port to use the torch as energy source for cell phones;
- floating.

5 light functions:
A) SPOT+COH-HI, 1400 lm, 1h duration;
B) SPOT-HI, 950 lm, 1.15h duration;
C) COB-HI, 750 lm, 1.45h duration;
D) COB-LO, 45 lm, 20h duration;
E) FLASH, 45 lm, 3h duration.

Code	Watertight up to m	Lumen	Range m	Duration h in full light / half light / flash mode	Body colour	mm	g
12.170.13	1	1400/950/750/45	600/300/200	1/1.15/1.45/20	Fluo yellow	150x160xØ70	0.445

Extreme LED head torch

LED

Fitted with 2 x Nichia high-efficiency LEDs. Shock-proof and watertight. Four operating modes: **full light, half light, red light, red flashing light.**

Code	Watertight up to m	Lumen/Candles			Range m			Duration in 4 functions h	⟷ mm	Battery INCLUDED
		Full light	Half light	Red light	Full light	Half light	Red light			
12.170.20	1	80/440	20/120	1/5	42	22	5	10/30/70/115	57x26x35	1 AA

Sub-Extreme Light underwater LED torch

Fitted with high-efficiency white Luxeon LED, it generates an light cone efficient up to 30 metres deep.
Two operating modes: full light and SOS flash with built-in safety lock.

Code	Watertight up to m	Lumen	Range m	Duration h		Body colour	⟷ mm	Batteries INCLUDED	g
				full light	flash				
12.170.04	30	240	163	4	26	Fluo yellow	44x166	4 AA	192

Extreme Personale emergency LED mini torch

LED

IP67

Fitted with a shackle to be hooked to the lifejacket, it can be used as a mini torch.
Modes: **fixed or flash light**.
Submersible up to 1m. Turn the ring to switch on.

Code	Watertight up to m	Lumen	Max range m	Life h		Body colour	⟷ mm	Battery	g
				Fixed light	Flash				
12.170.08	1	25	6	11	16	yellow	22x73	1xAAA	28 (with battery)

GEN2 ultra-compact LED torch

LED

IPx6

Fitted with a GEN 2 LG high-efficiency 3W LED and multifaced reflector.
Antislip case with safety line.
IPx6 watertight.
Packed in display blister.

Code	W	Lumen	USA spark plugs	Range m	Duration m	Colour	Dimensions mm	Battery
12.170.15	3	155	2250	95	3.5	Blue	Ø 21x113	1 x AA

► Luci d'ispezione

SLIM inspection/emergency LED light

extremely compact and lightweight, watertight to spray. Lighter-like plug with built-in switch.
2.5-m power cable.

Code	V	LED	W	W equivalent	⟷ mm
12.526.00	12	12	1.2	7	300x20x8

Inspection/emergency light with 60 LED lights

LED

12.525.00 Power with internal rechargeable battery.
Up to 6-hour capacity. 3-hour recharge time. Waterproof rubber body.
Equipment accessories: 110/240 volt battery charger, 12 volt cable with lighter-type plug.

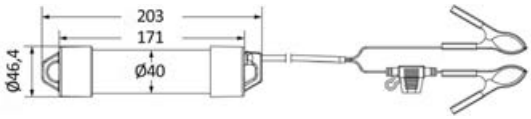
Fish Attractor LED light + portable light

LED

IP68

It emits a powerful white LED light that attracts fish.
Polycarbonate body. 360° light.
Fitted with standard lighter plug and safety fuse.
It can also be used as a regular lamp both **above and under water**.

Code	V	LED	W	W equivalent	Lumen	Current draw A	⟷ mm	Cord m
12.115.02	12/24	144x0.5	72	800	5400	45	203x46.4	5.20



► Princeton U.S.A. torches

PRINCETON Meridian emergency light

IPx8

The low-profile body is designed to attached to scuba divers or any tank or object by means of a 25-mm band.
The toggle switch allows for operation of red and white strobing modes.

Code	Light	Lumen	Range	Life h	Batteries
12.159.01	white or red	100 (white)	over 1 mile	100	3xAAA alcaline

PRINCETON Eco Flare LED emergency torch, IPX8 underwater

Emergency light equipped with a ultrabright LED + 1 krypton bulb.
Useful to be spotted or to see in the dark.

Code	Watertight up to m	Power	Duration hours	Frame color	Batteries INCLUDED	g
12.158.01	100	1 watt + 10 lumen	500	Fluo yellow	2 AAA	42

PRINCETON Tec 40 torch, IPX8 underwater

Extra-powerful torch equipped with a halogen light.
Incredible power and range despite its compact size.

Code	Watertight up to m	Lumen	Range m	Duration hours	Frame colour	Batteries INCLUDED	g
12.156.02	100	28	66	5	Fluo yellow	4 AA	181

PRINCETON Impact XL LED torch, IPX8 underwater

Very light torch (197 grams) featuring the same characteristics of the most performing models.
Rubber handle for a better grip. Equipped with 1 high-efficiency maxibright LED.

Code	Watertight up to m	Lumen	Range m	Duration hours	Frame colour	Batteries INCLUDED	g
12.155.01	100	120	50	76	Fluo yellow	4 AA	197

PRINCETON League LED underwater torch, IPX8

Fit with 1 x 3W high-efficiency maxibright LEDs + PRINCETONTEC'S special satellite dish.
Switch with lock system.

Code	Watertight up to m	Lumen	Range m	Hours	Frame color	Battery included	g
12.153.03	100	420	180	14	Fluo yellow	4 AA	203

PRINCETON Sector IPX8 5 LED underwater torch

IPx8

3 maxibright high-efficiency LEDs combined with Princeton Tec's lenticular optics.

Code	Watertight up to m	Lumen	Range m		Duration hours		Frame colour	Batteries INCLUDED	g
			low	high	low	high			
12.150.02	100	551	113	200	24	3	Fluo yellow	4 C	650

PRINCETON Sector 7 underwater LED torch

IPx8

High-efficiency Maxbright LED

Code	Watertight up to m	Lumen	Range m	Duration hours	Frame colour	⟷ mm	Batteries INCLUDED	g
12.150.11	100	700	210	4/30	Fluo yellow	165x163; Ø 75	8C	1075

► Power generators, solar panels

When the boat is moored at buoy or at docks where electric current is not available, the onboard battery progressively runs out and often causes problems with ignition. Our solar panels offer a solution to this inconvenient.

ENECOM flexible solar panels

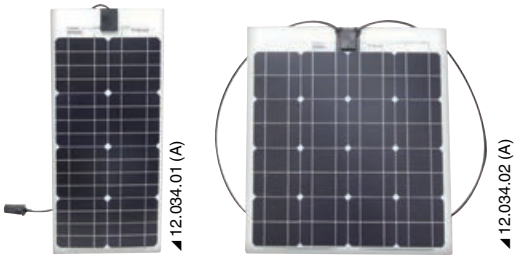
MADE IN ITALY

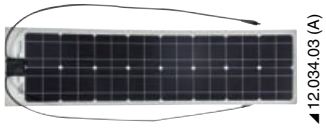
Built with high-performance aerospace solar cells. Latest generation ultrathin and ultraflexible panels (1.7 mm). 17.25% mono-crystalline cell efficiency. The panel is a sandwich construction made up of a plastic support + solar cell + UV-resistant epoxy resin surface coating. Installation by means of double-sided tape. Connection cable with plug, included.
Version A: mono-crystalline panels.
Version B: fitted with Sun Power top-efficiency cells. This results in more compact dimensions and 23% higher efficiency over standard cells.

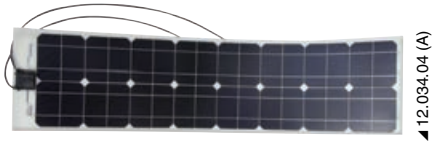
Code	Max power (Wp)	Thickness mm	V	Cable cm	⟷ mm	kg	Version
12.034.01	20	1.7	12	70	620x272	0.5	A
12.034.02	40	1.7	12	100	604x536	0.8	A
12.034.03	40	1.7	12	100	1120x282	0.8	A
12.034.04	65	1.7	12	100	1370x344	1.2	A
12.034.11	100	1.7	12	100	1231x536	1.6	A
12.034.07	90	1.7	12	100	977x546	1.5	B
12.034.08	120	1.7	12	100	1230x546	1.8	B
12.034.14 New	140	1.7	12	100	1194x660	1.85	A
12.034.16 New	160	1.7	12	100	1352x660	2.1	A

To be completed with voltage regulator and MC4 connectors if needed depending on the system requirements.

Enecom SUNPOWER™



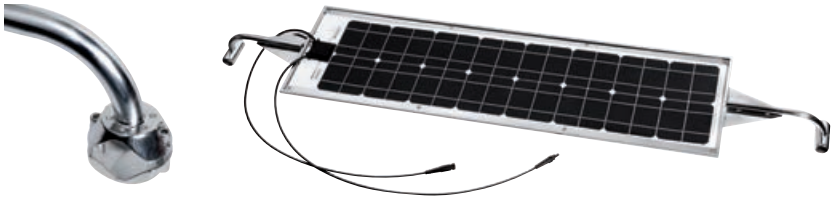




Solar panel for T-Tops

Fitted with end terminals to suit any 1200- to 1500-mm width. It matches any T-Top on the market made of 28/44-mm Ø tubes. Panel frame overall dimensions: 1150x320 mm.
It comes with a 5-m solar power cable, two connectors 12.034.09 and charge controller 12.035.01.

Code	Max power (Wp)	V	⟷ Panel cm	⟷ Adjustable support cm
12.034.10	40	12	113x32	120 to 158



Solar panel for A-frame

To be installed exclusively on the A-frame central part. Universal model.
Fitted with support to install navigation light. Frame overall dimensions: 1100x180 mm.
It comes with a 4-m solar power cable, charge controller 12.035.01 and two connectors 12.034.09.

Code	Max power (Wp)	V	⟷ mm
12.034.12	24	12	1100x180

Pair of MC4 male + female connectors, IP67 for installation of Enecom panels.

MADE IN ITALY **12.034.09** After fixing them to the onboard cables, they ensure an immediate connection to the Enecom panel already fitted with MC4 connectors.

◢ 12.035.01

◢ 12.035.02

Charge controllers for panels

These charge controllers are used in small-size solar systems for controlled charging of liquid electrolyte or gel dual batteries.

Code	Capacity A	Volt	Max load No panels
12.035.01	10	12/24	4x20 W, 3x40 W, 2x65 W, 1x90W, 1x130 W
12.035.02	20	12/24	4x60 W; 3x80 W; 3x90 W; 2x130 W

VICTRON Blue - Solar charge controllers for solar panels

Internal temperature sensor, protection against short-circuit, over-current and reverse polarity.
Three stage battery charging: BULK, ABSORPTION, FLOAT.
The DUO version charges two separate batteries and its charge current ratio is programmable.

Code	Model	V	Max charge A	No.of chargeable batteries	mm	kg
12.033.01	Blue 5	12/24	5	1	70x133x34	0.15
12.033.02	Blue 10	12/24	10	1	70x133x34	0.15
12.033.03	Blue 20	12/24	20	1	70x133x34	0.23
12.033.04	Blue Duo 20	12/24	20	2	70x153x37	0.20

LE300 wind generator

It generates 24V electric energy. Anodized aluminium and stainless steel frame.
Blades made of fiberglass-reinforced nylon. Engine locking device in OFF position.
The item is fitted with a Run / Stop switch, which makes the turbine operate at unusual voltages and currents generated by the turbine and be electrically isolated from battery systems. This switch acts as a temporary brake for the blades, not be used to stop the turbine over a long period.

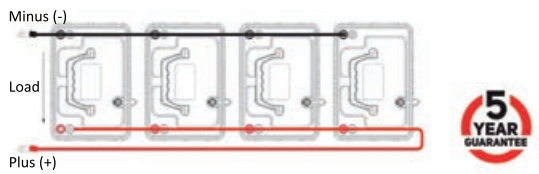
Code	V	Ø rotor cm	Yield		Average life cycle	kg
			Average	Max		
12.209.24	24	100	85 W with 8 m/s wind	300 W	20 years	6

12.209.16 *24V charge regulator*

► AGM and lithium batteries

◢ 12.470.01

◢ 12.470.02



LIFO lithium battery for services

SERVICES | LITIO | BLUETOOTH / PLUG AND PLAY SUBSTITUTION

LIFOS lithium iron phosphate (LiFePO4) batteries offer outstanding performance for all applications (except engine starting) and perfectly replace lead acid batteries without affecting the electric installation.

These batteries ensure several advantages over lead batteries:
- 40% weight reduction, doubled charge/discharge cycles at 100% depth of discharge, full recharge with no damage, maintenance free, fast recharge, 99% performance efficiency, more than doubled usable capacity.

A LiFePO4 battery has twice the voltage of a lead battery as well as high and even voltage most of the time. Among the lithium batteries these are the most eco-friendly and can be mounted at all angles. These batteries can be charged via any battery charger and the integrated BMS-Battery Management System monitors the charge/discharge functions.

Dimensions and (conic) poles are similar to most service batteries used so far.

Up to 4 batteries can be connected in series or in parallel in order to get a 48V battery bank.

Charge state and remaining running time are available in real time on a dedicated App on your smartphone that connects via Bluetooth to the batteries.
The App also warns the user to recharge the battery when residual charge is lower than 30%.

Code	Description	mm	kg
12.470.01	Lifos lithium batteries12,8 V 68 Ah	257x175x190	7.8
12.470.02	Lifos lithium batteries12,8 V 105 Ah	328x177x217	11.9

VICTRON AGM Deep Cycle batteries

SERVICES / SERVIZI **STARTING / AVVIAMENTO**

Fitted with VRLA (Valve Regulated Lead Acid) technology, which means that the batteries are sealed.

Gas will escape through the safety valves only in case of overcharging or cell failure.

Excellent high current performance.

Low self-discharge that enables these batteries to be stored for up to a year without recharging.

Very fast charging time, irrespective of how deep and for how long the battery has been discharged previously.

Code	A·h	Rush A/18° EN	W·h	V	Pole (+)	⟷			kg
						length mm	width mm	height mm	
12.416.01	110	500	924	12	LEFT	350	171	220	32
12.416.02	130	500	1092	12	LEFT	410	176	227	38
12.416.03	240	500	2016	12	LEFT	522	240	224	67

VICTRON lithium iron phosphate batteries

VICTRON Lithium-iron-phosphate (LiFePO4 or LFP) batteries have integrated cell balancing and cell monitoring. Up to ten batteries can be paralleled and **up to four batteries can be series-connected**, so that a **48V battery bank of up to 3000Ah** can be assembled.
The cell balancing/monitoring cables can be daisy- chained and must be connected to a Battery Management System (BMS).

Battery Management System (BMS)
The BMS connects to the BTV and will:
1 - Prevent cell undervoltage (lower than 2.5V) by timely disconnecting/switching off the load.
2 - Prevent cell overvoltage (exceeding 4.2V) by stopping the charge process.
3 - Shut down the system in case of overtemperature (exceeding 50° C).
4 - Carry out cell balancing.
5 - BMS supplies up to 200 A with any CC load (inverters and inverters/battery chargers included);
6 - More features may be included: see the individual BMS data sheet.

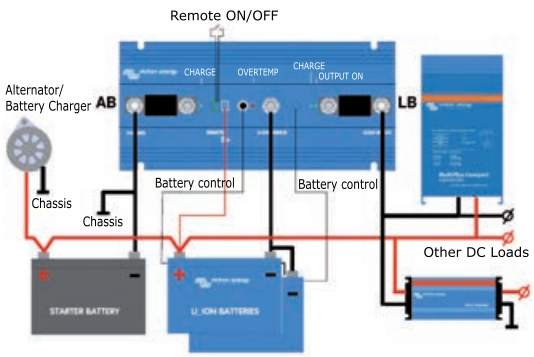
Advantages:
1) Lithium-iron-phosphate (LiFePO4 or LFP) is the safest of the mainstream li-ion battery types. The nominal voltage of an LFP cell is 3.2V (lead-acid: 2V/cell). A 12.8V LFP battery therefore consists of 4 cells connected in series; and a 25.6V battery consists of 8 cells connected in series.

2) **Up to 70% more lightweight and compact in comparison with traditional batteries**.

3) A lead-acid battery will fail prematurely due to sulphation:
•If it operates in deficit mode during long periods of time (i.e. if the battery is rarely, or never at all, fully charged).
•If it is left partially charged or worse, fully discharged.
An LFP battery does not need to be fully charged. Service life even slightly improves in case of partial charge instead of a full charge. This is a major advantage of LFP compared to lead-acid.

4) Other advantages are the wide operating temperature range, excellent charge cycle performance, low internal resistance and high efficiency (see below).

Code	Description	⟷ mm	kg
12.415.01	60-A·h battery	239x286x132	12
12.415.02	100-A·h battery	197x321x152	14
12.415.05	160-A·h battery	237x321x152	18
12.415.08	200-A·h battery	237x321x152	20
12.415.09	300-A·h battery	345x425x274	51
12.415.20	BMS management system	65x120x260	1.8



► Exide batteries

EXIDE Excell starting batteries

STARTING/ AVVIAMENTO

+15% starting power over a standard battery.
Central degassing system with flame arrestor pads.
Maintenance-free.
It can be inclined up to 60°.

Code	A·h	Capacity storage (min)	Peak A -18° (EN)	V	Model	Pole (+)	⟷ Length mm	Width mm	Height mm	kg
12.403.01	50	85	450	12	EB500	RIGHT	207	175	190	12.8
12.403.02	62	110	540	12	EB620	RIGHT	242	175	190	15.1
12.403.03	74	140	680	12	EB740	RIGHT	278	175	190	17.7
12.403.05	100	190	720	12	EB1000	RIGHT	318	175	205	23.3

EXIDE Premium Dual Purpose batteries (engine start and domestic system use)

STARTING / AVVIAMENTO **SERVICES / SERVIZI**

+30% starting power over a standard battery. Increase of the battery duration in working conditions at high temperature.
Double thermowelded cover sealed for maximum safety. Exide-patented labyrinth system allowing the reflow of acid particles thus avoiding leaks.
Maintenance-free. It can be inclined up to 60°. Higher capacity storage thanks to the use of thicker plates.
Higher corrosion resistance thanks to the use of expanded metal grids (Exmet) and Lead-Calcium alloys.

Code	A·h	Capacity storage (min)	Peak A -18° (EN)	W/h	V	Model	Pole (+)	⟷ Length mm	Width mm	Height mm	kg
12.404.02	64	106	640	191	12	EA640	RIGHT	242	175	190	15.6
12.404.03	77	130	760	230	12	EA770	RIGHT	278	175	190	19.1
12.404.05	105	190	850	315	12	EA1050	RIGHT	313	175	205	24.4

◢ 12.404.02

◢ 12.404.03

◢ 12.404.05

EXIDE Maxxima batteries with AGM technology

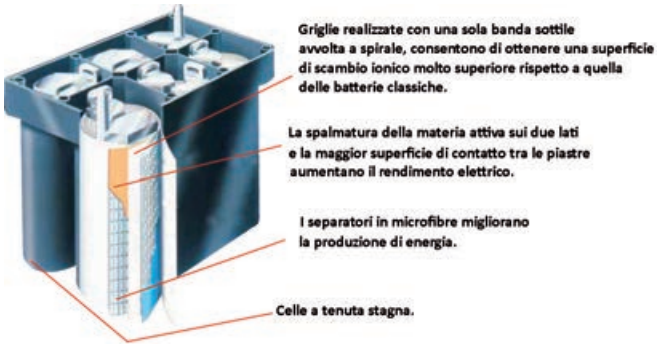
STARTING / AVVIAMENTO **SERVICES / SERVIZI**

◢ 12.406.03

+50% starting power over a standard battery.
Resistance to vibrations.
Guaranteed starting from -40° to +75° C.
Maintenance-free.
Totally airtight.
It can be inclined up to 180°.
Resistance to charge and discharge cycles.
Low rate of self-discharge.
Fast recharge.
Limited size and weight in comparison with performance.
Versatile-to-use: four poles and two front couplings.
24-month warranty.

Code	Use	A·h	Capacity storage (min)	Peak A -18° (EN)	Peak A -0° (MCA)	W·h	V	Model	Poles	⟷ Length mm	Width mm	Height mm	kg
12.406.01	Starting	-	95	800	1000	-	12	EM1000	Conical on the head Female front threads	260	173	205	17.9
12.406.03	Services/thruster starting	50	95	750	940	450	12	EP450	Conical on the head Male threads	260	173	205	18.6

◢ 12.406.01



EXIDE Professional batteries for starting and onboard services

STARTING/AVVIAMENTO **SERVICES/SERVIZI**

Reference battery.
Lead/calcium/antimony plates and polyetylene spacers.
Standard caps.

Code	A·h	Capacity duration (min)	Peak A/18° (EN)	W·h	V	Model	Pole (+)	|⟷|			kg
								Length mm	Width mm	Height mm	
12.408.01	120	223	680	430	12	EH1206	RIGHT	510	175	225	36
12.408.03	180	360	1000	640	12	EG1803	LEFT	513	223	223	45
12.408.04	225	481	1200	750	12	EG2104	RIGHT	518	279	240	60

EXIDE Agm batteries for services and starting

SERVICES / SERVIZI **STARTING / AVVIAMENTO**

No maintenance: thanks to the gas recombination technology.

Starting power: higher starting power even in extreme conditions.

Longer duration: 3 times the life cycle of a standard lead/free acid battery (in compliance with the EN 50342-1 CCA tests).

Vibration resistance: excellent resistance to vibration (V3 level in compliance with the EN 50342-1 CCA tests).

Safety: 100% sealed battery avoiding acid leaks when the battery is turned upside down. The battery is absolutely airtight thanks to the VRLA safety system.

Easy to install: easy to transport and install even in vertical position.

12.412.03/05

12.412.02

Code	A·h	Reserve capacity (min)	Peak A/-18° (EN)	W·h	V	Model	Pole (+)	|⟷|			kg
								Length mm	Width mm	Height mm	
12.412.02	100	205	720	900	12	EP900	LEFT conical+threaded	330	173	240	32
12.412.03	140	300	700	1200	12	EP1200	LEFT	513	189	223	45
12.412.05	240	550	1200	2100	12	EP2100	LEFT	518	279	240	72

EXIDE Gel batteries for services and starting

SERVICES / SERVIZI **STARTING / AVVIAMENTO**

Maximum safety: Airtight and sealed battery avoiding acid or gas leaks thanks to the recombination process. Acid is frozen by means of a gel thus making the battery highly eco-friendly.

Higher capacity of use: Very low self-discharge so that EXIDE GEL still has more than 80% of its nominal capacity in store after 6 months' non-use, and more than 60% after 2 years' non-use.
No need of recharge!

Sturdier built: EXIDE GEL combines sturdier built and the advantages of the gel technology thus standing very high vibrations.

More cycles - longer duration: Differently from traditional batteries, EXIDE GEL allows 100% discharge.

It can be inclined up to 180°.

12.413.03

12.413.08

Code	A·h	Capacity storage (min)	Peak A/18° (EN)	W·h	V	Model	Pole (+)	|⟷|			kg
								Length mm	Width mm	Height mm	
12.413.01	60	95	510	650	12	ES650	RIGHT	278	175	190	21.2
12.413.03	85	130	510	969	12	ES950	LEFT	330	165	236	30
12.413.08	210	320	1200	2394	12	ES2400	LEFT	518	276	242	70
12.413.20*	200	260	950	1100	6	ES1100-6	RIGHT	244	190	275	62

* *To be used in series. Smaller size and weight batteries than 12V batteries can deliver greater charge stock.*

Aurora pop-out LED table light

13.448.00 - A Flush Lamp, that is concealed when retracted

Video

► Brightness and colour temperature

Brightness (luminous flux)

The light flux (also known as brightness) emitted by a bulb is expressed in **lumen** (lm). Traditional incandescent or halogen light bulbs only indicated electric power in **watt** (W); watts actually indicate energy consumption and not the real quantity of light emitted.

Watt consumption being equal, modern light bulbs (using the LED technology or other low consumption technologies) have a much higher brightness. As an indication, the table here below shows the correspondence between **halogen bulbs** and any modern bulb whose brightness is expressed in **lumen**.

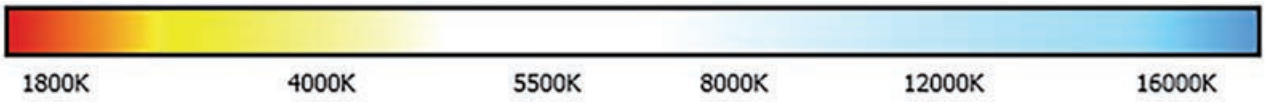
A light source having luminous flux equal to	10 lumen	20 lumen	50 lumen	70 lumen	100 lumen	150 lumen	200 lumen	250 lumen	350 lumen	500 lumen
Replaces a halogen bulb of	0.5 watt	1 watt	3 watt	4 watt	6 watt	9 watt	12 watt	15 watt	20 watt	30 watt

Colour temperature

Colour temperature is a characteristic of visible light and is expressed in **kelvin** (K). Any light source has a distinctive colour temperature ranging from warm (such as a candle, 1000 K) to cool (Xenon lamps, 6200 K).

Warm lights have a yellow/orange shade and make ambients more comfortable to the detriment of the colour fidelity of the surrounding objects. **Cool lights** - over 5300 K - result in bluish tones.

Traditional incandescent bulbs have a warm light (about 2900 K) but cooler lights are used to light up work areas (3500 K to 6000 K).

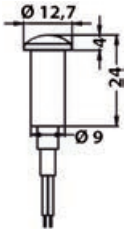


IP protection degree

Ex. IP67:
6 = complete protection against ingress of dust.
7 = Ingress of water is possible when the enclosure is immersed in water under defined conditions of pressure and time.

IP	X	Y
Code breakdown (International Protection)	**X = solid particle protection (0-6)**	**Y = liquid ingress protection (0-8)**
	0 No protection	**0 No protection**
	1 Protected against ingress of solid particles > 50-mm Ø	**1 Protection against vertically falling drops**
	2 Protected against ingress of solid particles > 12-mm Ø	**2 Protection against dripping water when tilted at any angle up to 15° from the vertical**
	3 Protected against ingress of solid particles > 2.5-mm Ø	**3 Protection against water falling as a spray at any angle up to 60° from the vertical**
	4 Protected against ingress of solid particles > 1-mm Ø	**4 Protection against water splashing against the enclosure from any direction**
	5 Protection against ingress of dust (dust protected)	**5 Protection against water jets**
	6 Complete protection against ingress of dust (dust tight)	**6 Protection against powerful water jets**
		7 Protection against temporary immersion in water
		8 Protection against continuous immersion in water

► Plastic walkway and courtesy lights



LED walkway light for recess mounting - frontal orientation

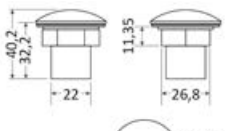
Clear plastic.

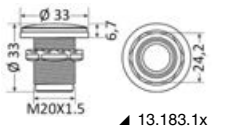
Code	V	W	K	LED beam angle	Light colour	⟷ mm	
						recess Ø	outer Ø
13.183.15	12	0.24	2850/3200	30°	White	9	12.7
13.183.16	12	0.24	-	30°	Blue	9	12.7

LED courtesy light for recess mounting - frontal orientation

IP66 ABS.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								recess Ø	outer Ø
13.183.08	12	0.24	4	2900-3200	30°	1	White	14x20 depth	28

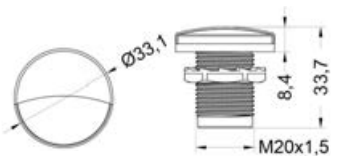




LED courtesy light for recess mounting - frontal orientation

IP68 Clear polycarbonate.

Code	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outside Ø	over hang
13.183.01	12	0.2	12.5	5500-6300	120°	1	white	22	38	8
13.183.02	12	0.2	2	-	120°	1	red	22	38	8
13.183.03	12	0.2	2	-	120°	1	blue	22	38	8
13.183.11	12	0.2	12,5	5500-6300	120°	1	white	20	31.6	5
13.183.13	12	0.2	2	-	120°	1	blue	20	31.6	5

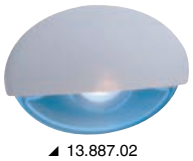


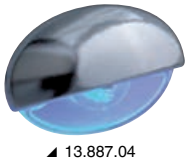
Recess fit LED courtesy light - downward orientation

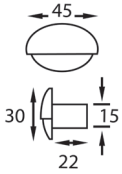
IP68 Made of technopolymer with polished AISI316 stainless steel cover.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outer Ø	overhang
13.188.11	12	0.4	21	5500	120°	2	White	19.2	Ø 33,1	6
13.188.12	12	0.4	4	-	120°	2	Blue	19.2	Ø 33,1	6

Båtsystem







BATSYSTEM Steeplight LED courtesy light for recess mounting - downward orientation

IP65 White plastic and opal glass.

Body colour		V	W	Lumen	K	No of LEDs	Light colour	⟷ mm		
white	chromed							recess Ø	outside	overhang
13.887.01	**13.887.03**	12	0.15	10	3000	1	White	15	30x45	7
13.887.02	**13.887.04**	12	3	3	-	1	Blue	15	30x45	7

LED courtesy light, recessless version - frontal orientation

FLUSH MOUNT White plastic.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm
13.177.01	12	0.23	4	5500-6300	30°	2	White	43x19

LED courtesy light, recessless version - frontal orientation

IP65 **FLUSH MOUNT**

White plastic.

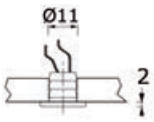
Code	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm
13.178.31	12	0.4	38	2900-3200	120°	2.6	White	70x38x10 overhang
13.178.32	12	0.4	11.4	-	120°	2.6	Blue	70x38x10 overhang

► Metal walkway and courtesy lights

Apus-r LED courtesy light for recess mounting - frontal orientation

IP65 Chromed brass with clear polycarbonate diffuser. Pressure installation.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outside Ø	over hang
13.477.20	12/24	0.24	6	6000	80°	1	White	11	20	2
13.477.21	12/24	0.24	3	-	70°	1	Blue	11	20	2
13.477.22	12/24	0.46	4	-	80°	1	Red	11	20	2

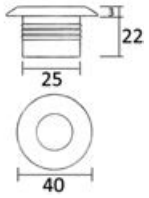


LED courtesy light for recess mounting - frontal orientation

IP65 **AISI 316**

Precision-cast mirror-polished stainless steel. Polycarbonate diffuser.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outer Ø	overhang
13.429.04	12/24	0.3	6	6000	25°	1	White	25	40	3
13.429.05	12/24	0.3	3	-	25°	1	Blue	25	40	3
13.429.06	12/24	0.3	3	-	25°	1	Red	25	40	3

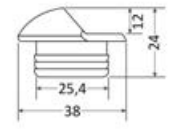


Alcor LED courtesy light for recess mounting - downward orientation

IP67 **AISI 316**

Machined stainless steel body. Snap mounting.

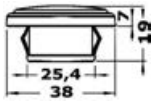
Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outer Ø	overhang
13.425.90	12/24	0.2	20	3000	100°	1	White	25.4	38	12
13.425.91	12/24	0.2	10	-	100°	1	Blue	25.4	38	12
13.425.92	12/24	0.2	10	-	100°	1	Red	25.4	38	12



Tilly LED courtesy light for recess mounting - frontal or downward orientation

IP67 White plastic body, mirror-polished stainless steel front panel. Snap mounting.

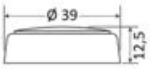
Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outer Ø	over hang
13.426.01	12/24	0.5	25	3000	360°	6	White	25.4	38	7
13.426.02	12/24	0.5	10	-	360°	6	Blue	25.4	38	7
13.426.10	12/24	0.5	25	3000	180°	6	White	25.4	38	7
13.426.11	12/24	0.5	10	-	180°	6	Blue	25.4	38	7



◢ 13.426.22

◢ 13.426.23

◢ 13.426.24



Aara LED courtesy light, recessless version - downward orientation

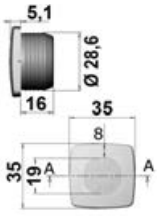
IP67 **FLUSH MOUNT**

White plastic body, mirror-polished stainless steel front panel.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm
13.426.22	12	0.5	25	3000	180°	6	White	39x12.5
13.426.23	12	0.5	10	-	180°	6	Blue	39x12.5
13.426.24	12	0.5	10	-	180°	6	Red	39x12.5

◢ 13.429.42

◢ 13.429.41

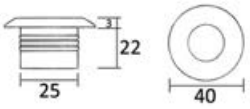


LED courtesy light for recess mounting - frontal orientation

IP65 **AISI 304**

Polycarbonate body. Mirror polished stainless steel front panel. Push-fit mounting.

Code	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm		
								recess Ø	outside	over hang
13.429.41	12/24	0.4	20	3000	110°	2 LED HD 5 mm	white	28.6	35x35	5.1
13.429.42	12/24	0.4	10	-	110°	2 LED HD 5 mm	blue	28.6	35x35	5.1

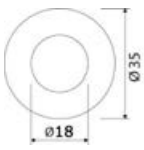


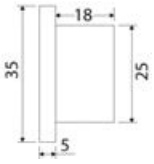
LED ceiling light for recess mounting - frontal orientation

IP65 **AISI 316**

Stainless steel body. For use as ambient light under gangplanks.

Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.429.10	Mirror-polished	12/24	1	110	3000	25°	1	White
13.429.11	Mirror-polished	12/24	1.2	45	-	25°	1	Blue
13.429.12	Mirror-polished	12/24	1	45	-	25°	1	Red
13.429.20	Mirror-polished	12/24	3	190	3000	25°	3	White
13.429.21	Mirror-polished	12/24	3	74	-	25°	3	Blue



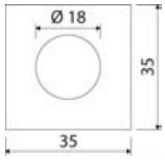


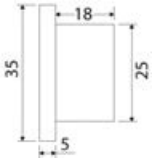
Recess fit LED ceiling light - frontal orientation

IP65 Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.429.90	12/24	1	110	3000	25°	1	White
13.429.91	12/24	1	45	-	25°	1	Blue
13.429.95	12/24	3	190	3000	25°	1	White
13.429.96	12/24	3	74	-	25°	1	Blue



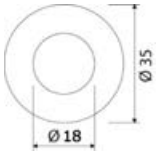


Recess fit LED ceiling light - frontal orientation

IP65 Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.429.80	12/24	1	110	3000	25°	1	White
13.429.81	12/24	1	45	-	25°	1	Blue
13.429.85	12/24	3	190	3000	25°	1	White
13.429.86	12/24	3	74	-	25°	1	Blue



Recess fit LED courtesy light - frontal orientation

IP67 Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								outer	overhang
13.429.75	12/24	0.5	24	3000	25°	1	White	35x35	5
13.429.76	12/24	0.5	3	-	25°	1	Blue	35x35	5

Recess fit LED courtesy light - downward orientation

IP67

Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								outer	overhang
13.429.60	12/24	0.5	23	3000	90°	1	White	35x35	5
13.429.61	12/24	0.5	4	-	90°	1	Blue	35x35	5

Recess fit LED courtesy light - dual upward/downward orientation

IP67

Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316

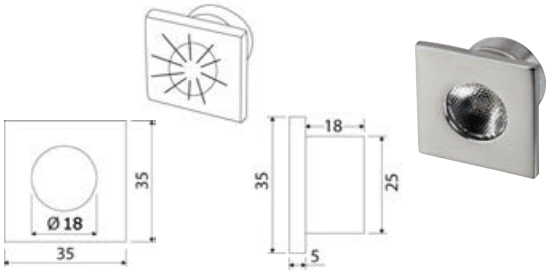
Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								outer	overhang
13.429.65	12/24	0.5x2	41	3000	90°+90°	2	White	35x35	5
13.429.66	12/24	0.5x2	7	-	90°+90°	2	Blue	35x35	5

Recess fit LED courtesy light - frontal orientation

IP67

Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316



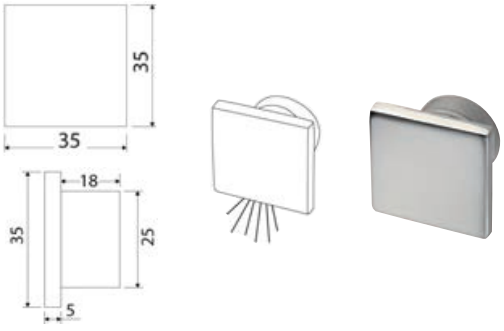
Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								outer	overhang
13.429.70	12/24	0.5	24	3000	25°	1	White	35x35	5
13.429.71	12/24	0.5	3	-	25°	1	Blue	35x35	5

Recess fit LED courtesy light - downward orientation

IP67

Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316



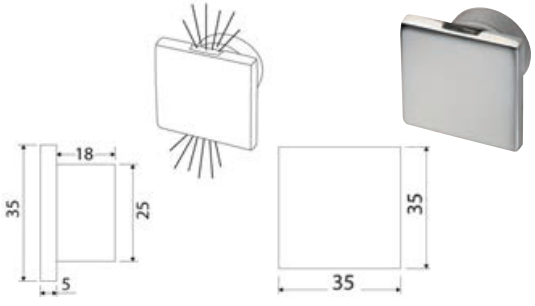
Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								outer	overhang
13.429.50	12/24	0.5	23	3000	90°	1	White	35x35	5
13.429.51	12/24	0.5	4	-	90°	1	Blue	35x35	5

Recess fit LED courtesy light - dual upward/downward orientation

IP67

Polished precision-cast AISI316 stainless steel body. Pressure mounting.

AISI 316



Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
								outer	overhang
13.429.55	12/24	0.5x2	41	3000	90°+90°	2	White	35x35	5
13.429.56	12/24	0.5x2	7	-	90°+90°	2	Blue	35x35	5

LED courtesy light for recess mounting - frontal orientation

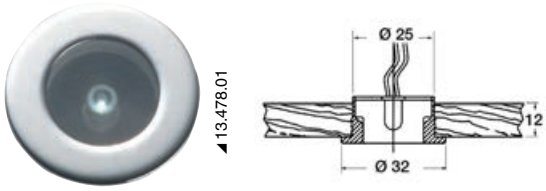
IP65

Chromed brass.

◀ 13.185.12/13

◀ 13.186.12/13

Code	Front panel	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm	
									recess Ø	outside
13.185.12	square	12	0.23	1.6	5500-6300	30°	1	white	26	30x30
13.185.13	square	12	0.23	0.5	-	30°	1	blue	26	30x30
13.186.12	round	12	0.23	1.6	5500-6300	30°	1	while	26	Ø 32
13.186.13	round	12	0.23	0.5	-	30°	1	blue	26	Ø 32



FORESTI E SUARDI Circinus LED courtesy light for recess mounting

IP67

Electro-plated brass body, clear technopolymer diffuser. Suitable for mounting on flammable surfaces. Fastening by means of threaded finish ring.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	mm		
								recess Ø	outer Ø	overhang
13.478.01	12/24	0.24	20	6000	60°	1	White	25	32	2
13.478.03	12/24	0.24	6	-	60°	1	Blue	25	32	2

FORESTI E SUARDI Elettra-t LED courtesy light, recessless version

IP67 **FLUSH MOUNT**

Clear technopolymer body, electro-plated technopolymer snap finish ring. Suitable for mounting on flammable surfaces both horizontally and vertically. Innovative design, Wall Washer light effects. Screw mounting.

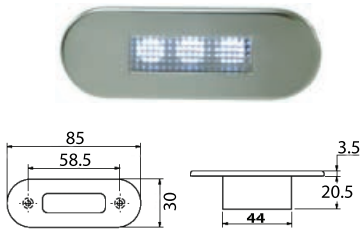
Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	mm
13.479.60	12/24	0.48	40	4000	60°x10°	1 SMD LED	White	38x31x10
13.479.61	12/24	0.48	12	-	60°x10°	1 SMD LED	Blue	38x31x10

LED courtesy light for recess mounting - frontal orientation

IP55

Translucent polycarbonate body. Stainless steel finish ring. Suitable to light up steps.

Code	Finish	V	W	lumen	LED beam angle	No of LEDs	Light colour	mm		
								recess Ø	outside Ø	overhang
13.181.00	no finish ring	12	0.6	12	24°	3 LED Long Life	yellow	28	46.3x23.3	2.4
13.181.01	mirror-polished	12	0.6	12	24°	3 LED Long Life	yellow	28	46.3x23.3	2.4
13.181.03	mirror-polished	12	0.6	7	20°	3 LED Long Life	blue	28	46.3x23.3	2.4

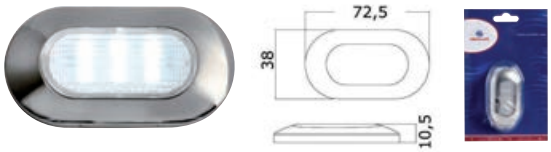


LED courtesy light for recess mounting - frontal orientation

IP67

Polycarbonate body and mirror-polished stainless steel front panel.

Code	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	mm		
								recess Ø	outside Ø	overhang
13.180.01	12	0.2	36	5000	100°	3 LED Long Life	white	44x16	29x84	3.5
13.180.02	12	0.2	25	-	100°	3 LED Long Life	yellow	44x16	29x84	3.5
13.180.03	12	0.2	14	-	100°	3 LED Long Life	blue	44x16	29x84	3.5

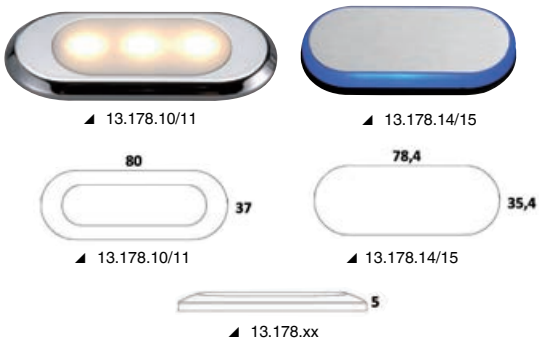


LED courtesy light, recessless version - frontal orientation

IP67 **FLUSH MOUNT**

Mirror-polished stainless steel front panel.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	mm	
								outside	overhang
13.178.04	12	1.2	83	5500/6300	120°	6	White	72.5x38	10.5
13.178.03	12	1.2	22	-	120°	6	Blue	72.5x38	10.5



Oculus ultra-flat courtesy light - frontal orientation

IP67

Recessless mounting, 5-mm thick. Watertight technopolymer body with polished stainless steel finishing ring.

Code	Model	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	mm
13.178.10	Front light, SS ring	12	0.3	30	3000	100°	3	White	80x37x5
13.178.14	Perimeter light, SS front panel	12	0.3	30	3000	360°	3	White	78.4x35.4x5
13.178.11	Front light, SS ring	12	0.3	10	-	100°	3	Blue	80x37x5
13.178.15	Perimeter light, SS front panel	12	0.3	10	-	360°	3	Blue	78.4x35.4x5

LED courtesy light, recessless version - frontal orientation

IP67 FLUSH MOUNT

Chromed finish. Fastening by means of hidden screws.

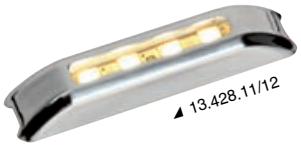
Code	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm outside	overhang
13.187.01	12	0.4	30	2900-3200	120°	5	white	80x18	15.8
13.187.02	12	0.4	2.4	-	120°	5	blue	80x18	15.8

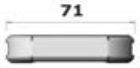
LED courtesy light, recessless version

IP67 AISI 304 FLUSH MOUNT

Mirror-polished stainless steel finish and polycarbonate diffuser. Fastening by means of screws hidden by the front panel.

Code	Version	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm outside	over hang
13.428.11	Front light	12/24	0.4	20	3000	110°	3	White	71x15	10
13.428.12	Front light	12/24	0.4	10	-	110°	3	Blue	71x15	10
13.428.01	Downward light	12/24	0.4	20	3000	110°	3	White	71x15	10
13.428.02	Downward light	12/24	0.4	10	-	110°	3	Blue	71x15	10
13.428.03	Double up/ downward light	12/24	0.6	40	3000	110°	3+3	White	71x15	10
13.428.13	Double up/ downward light	12/24	0.6	15	-	110°	3+3	Blue	71x15	10


◢ 13.428.11/12

◢ 13.428.01/02


◢ 13.428.03/13

LED courtesy light, recessless version

IP67 AISI 316 FLUSH MOUNT

Mirror-polished stainless steel microcast body. Hidden screws.

Code	Version	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm outside	overhang
13.427.11	Front light	12/24	0.6	60	3000	110°	3	White	100x16	11
13.427.12	Front light	12/24	0.6	24	-	110°	3	Blue	100x16	11
13.427.32*	Front light	12/24	0.3	60/24	3000	110°	3	White + Blue	100x16	11
13.427.01	Downward light	12/24	0.6	60	3000	110°	3	White	100x16	11
13.427.02	Downward light	12/24	0.6	24	-	110°	3	Blue	100x16	11
13.427.22*	Downward light	12/24	0.2	60/24	3000	110°	3	White + Blue	100x16	11
13.427.03	Double up/downward light	12/24	1.2	120	3000	110°	3+3	White	100x16	11
13.427.13	Double up/downward light	12/24	0.5	48	-	110°	3+3	Blue	100x16	11

* *Push the switch in sequence to choose the white or blue light.*

◢ 13.427.11/12/32

◢ 13.427.11/12/32

◢ 13.427.01/02/22

◢ 13.427.01/02/22

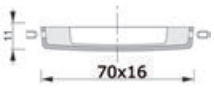
◢ 13.427.03/13

FORESTI E SUARDI Andromeda LED courtesy light, recessless version - downward orientation

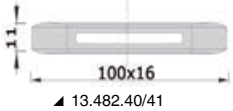
IP67 FLUSH MOUNT

Clear technopolymer body, chromed brass front panel. Suitable for mounting on flammable surfaces. Screw mounting both vertically and horizontally. Innovative design and ambient light effects.

Code	V	W	lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm outside	protrusion
13.482.30	12/24	0.5	50	4000	70°	5 x SMD LEDs	White	70x16	11
13.482.31	12/24	0.5	16	-	70°	5 x SMD LEDs	Blue	70x16	11
13.482.40	12/24	0.5	50	4000	70°	5 x SMD LEDs	White	100x16	11
13.482.41	12/24	0.5	16	-	70°	5 x SMD LEDs	Blue	100x16	11

◢ 13.482.30/31


◢ 13.482.30/31

◢ 13.482.40/41


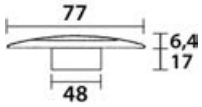
◢ 13.482.40/41

► Plastic spotlights and ceiling lights

Recess-fit or recessless mounting LED ceiling light

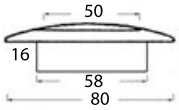
IP67 ABS body. It comes with finish ring also for recessless mounting.

Code	Finish	V	W	lumen	K	LED beam angle	No of LEDs	light colour
13.179.56	white	12/24	1.2	75	2900-3200	120°	6	white



◢ 13.179.01

◢ 13.179.02



LED ceiling light for recess mounting

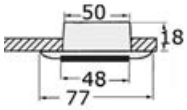
IP65 ABS body.

Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.179.01	White	12	0.8	50	6000	30°	9	White
13.179.02	Chromed	12	0.8	50	6000	30°	9	White
13.179.11	White	12	0.5	20	-	20°	9	Blue
13.179.22	Chromed	12	0.5	20	-	20°	9	Blue

Båtsystem

◢ 13.877.70/71

◢ 13.877.74/75



BATSYSTEM Nova Classic halogen ceiling light for recess mounting

ABS body.

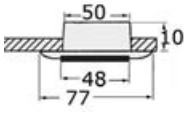
Code	Finish	V	W	Switch	Bulb	Spare bulb	Light colour
13.877.70	white	12	10	no	G4	**14.454.12; 14.454.24**	white
13.877.71	white	12	10	yes	G4	**14.454.12; 14.454.24**	white
13.877.74	chromed	12	10	no	G4	**14.454.12; 14.454.24**	white
13.877.75	chromed	12	10	yes	G4	**14.454.12; 14.454.24**	white

Båtsystem

◢ 13.877.60

◢ 13.877.62

◢ 13.877.65



BATSYSTEM Nova II LED ceiling light for recess mounting

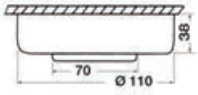
ABS body.

Code	Finish	V	W	Switch	lumen	K	LED beam angle	No of LEDs	Light colour
13.877.60	white	8/30	2	no	145	3000	120°	12 LED SMD	white
13.877.61	white	8/30	2	yes	145	3000	120°	12 LED SMD	white
13.877.62	golden	8/30	2	no	145	3000	120°	12 LED SMD	white
13.877.64	chromed	8/30	2	no	145	3000	120°	12 LED SMD	white
13.877.65	chromed	8/30	2	yes	145	3000	120°	12 LED SMD	white

Båtsystem

◢ 13.831.20

◢ 13.831.22



BATSYSTEM Sun LED ceiling light for recess mounting

ABS body, opal diffuser.

Code	Finish	V	W	Switch	lumen	K	LED beam angle	No of LEDs	Light colour
13.831.20	chromed	8/30	2.4	yes	150	3000	120°	12 LED SMD	white
13.831.22	white	8/30	2.4	yes	150	3000	120°	12 LED SMD	white

BATSYSTEM Saturn HD LED ceiling light

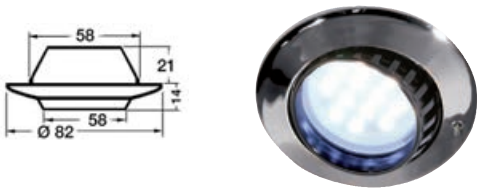
ABS body, satin-finish polycarbonate diffuser.

Code	Finish	V	W	Mounting	Switch	Lumen	K	LED beam angle	No. of LEDs	Light colour
13.833.11	White	12	3.5	Recessless	Yes, toggle switch	210	3000	120°	42	White
13.833.12	Chromed	12	3.5	Recessless	Yes, toggle switch	210	3000	120°	42	White

BATSYSTEM Comet LED spotlight for recess mounting

ABS body, satin-finish glass diffuser.

Code	Finish	V	W	Switch	lumen	K	LED beam angle	No of LEDs	Light colour
13.878.32	chromed	8/30	2.4	no	150	3000	120°	12 LED SMD	white
13.878.33	chromed	8/30	2.4	yes	150	3000	120°	12 LED SMD	white



LED ceiling light, reduced overhang

IP66 **FLUSH MOUNT**

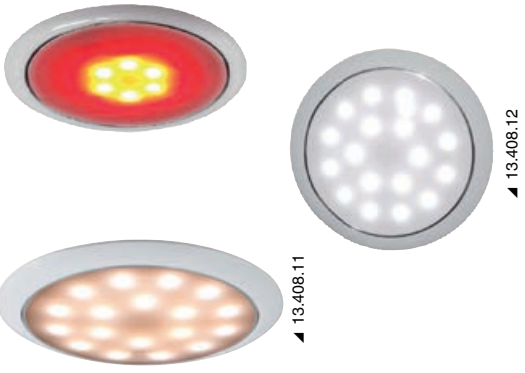
ABS body, satin-finish glass diffuser. Ultra-flat recessless version with touch switch and two light levels.

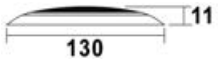
Code	Finish	V	W	Switch	lumen	K	LED beam angle	No of LEDs	Light colour
13.408.01	white + SS profile	12/24	3	yes	168	3050-3800	120°	42 LED SMD	white
13.408.02	chromed	12/24	3	yes	168	3050-3800	120°	42 LED SMD	white

Day/Night LED ceiling light, recessless version

White/red/off touch switch.

Code	Finish	V	W	Switch	lumen	K	LED angle	No of LEDs	Light colour
13.408.11	White finish ring	12/24	3.5	Yes	251	3000	120°	18 x white / 6 x red	White + red
13.408.12	Chromed finish ring	12/24	3.5	Yes	251	3000	120°	18 x white / 6 x red	White + red



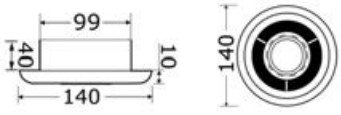


Extract and Light recess-fit LED spot light with extractor fan

Compact extractor fan with built-in LED light for application in toilets and kitchens.
Extraction and light are independent.
Fitted with **double finish ring** made of **white or chromed ABS**.

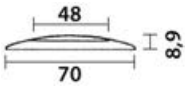
Code	V	W LED HD	Fan current draw W	Fan capacity m^3/h	K	Light colour
13.582.12	12	1.5*	3.7	7.2	3000	White
13.582.24	24	1.5*	4.8	7.2	3000	- -

* *Corresponding to a 10W halogen bulb.*



► Metal spotlights and ceiling lights

◢ 13.179.52

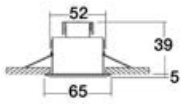


LED ceiling light, wired recessless version

IP67 **FLUSH MOUNT**

ABS body, stainless steel finish ring.

Code	Finish	V	W	lumen	K	LED beam angle	No of LEDs	Light colour
13.179.52	Mirror-polished	12/24	1.2	95	5500/6300	120°	6	white
13.179.53	Mirror-polished	12/24	1.2	13	-	120°	6	blue

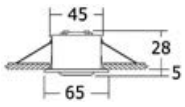


Sterope halogen ceiling light for recess mounting

IP65 **AISI 316**

Stainless steel body. Glass diffuser. Dichroic parabolic reflector.

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.438.01	Mirror-polished	12	20	G4	**14.453.01; 14.100.24**	white



ALTAIR compact and adjustable LED spotlight

IP20 **AISI 304**

Glass diffuser.

Code	Finish	V	W	Reflector	LED	Light colour
13.437.15	Mirror-polished	12/24	3	Optical	1 HD	White

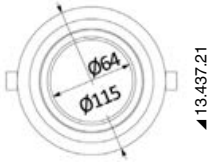
◢ 13.437.20

◢ 13.437.21

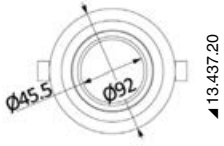
Recess-fit adjustable LED ceiling light

Chromed light alloy case, stainless steel parts. Polycarbonate lens. 3030 LED, warm light.

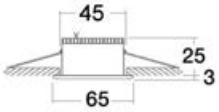
Code	Finish	V	W	Lumen	K	Beam angle	No. of LEDs	⟷ mm	
								recess	outside Ø
13.437.20	Chromed	12/24	2	130	3000	120°	1	14.5	92
13.437.21	Chromed	12/24	4	260	3000	120°	1	14.5	115



◢ 13.437.21



◢ 13.437.20

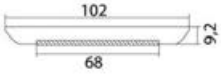


Atlas halogen ceiling light for recess mounting

IP40 **AISI 304**

Stainless steel body. Satin-finish glass diffuser.

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.435.01	Mirror polished	12	10	G4	**14.454.12; 14.454.24**	white



Luna LED ceiling light, recessless version

IP65 **FLUSH MOUNT**

Anodized aluminium body, stainless steel finish ring. Technopolymer diffuser. Hidden LEDs, **even and shadeless light.**

Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.410.01	Mirror-polished	12	4.8	420	3000	100°	24	White

Atria LED ceiling light for recess mounting

IP40/65

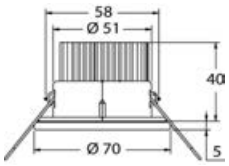
AISI 304

Stainless steel body. Satin-finish diffuser. Double mounting system: hidden screws or stainless steel internal springs.

Code	Finish	V	W	Switch	IP Degree	Lumen	K	LED beam angle	No of LEDs	Light colour
13.447.01	Mirror-polished	12/24	2	No	IP65	215	3000	100°	12 LED SMD G4	White
13.447.02	Mirror-polished	12/24	2	Yes	IP40	215	3000	100°	12 LED SMD G4	White
13.447.04	Nickel satin-finish	12/24	2.4	No	IP65	215	3000	100°	12 LED SMD G4	White
13.447.05	Nickel satin-finish	12/24	2.4	Yes	IP40	215	3000	100°	12 LED SMD G4	White
13.447.21	Mirror-polished	12/24	8.4	No	IP65	500	3000	60°	3x3 LED HD	White

◢ 13.447.01

◢ 13.447.02



◢ 13.447.21

Atria halogen ceiling light for recess mounting

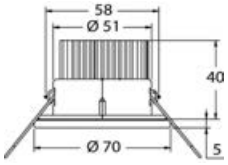
IP40/65 **AISI 304**

Stainless steel body. Satin-finish glass diffuser. Double mounting system: hidden screws or stainless steel internal springs.

Code	Finish	V	W	Switch	IP Degree	Bulb	Spare bulb	Light colour
13.447.90	Mirror-polished	12	10	no	IP65	G4	**14.454.12; 14.454.24**	white
13.447.91	Mirror-polished	12	10	yes	IP40	G4	**14.454.12; 14.454.24**	white

◢ 13.447.90

◢ 13.447.91



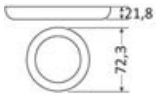
Aruba reduced recess fit LED ceiling light

IP56

AISI 316

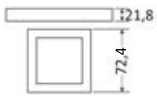
Technopolymer body and polished AISI316 stainless steel finishing ring. Polycarbonate opal lens. Mounting with stainless steel springs (no screws).

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	LED colour	⟷ mm
13.444.01	SS	12/24	3	No	193	3000	120°	14	White	Ø 72.3 x 21.8
13.444.02	SS	12/24	3	Touch	193	3000	120°	14	White	Ø 72.3 x 21.8
13.444.11	SS	12/24	3	No	193	3000	120°	14	White	72.4 x 72.4 x 21.8
13.444.12	SS	12/24	3	Touch	193	3000	120°	14	White	72.4 x 72.4 x 21.8



◢ 13.444.01/02

◢ 13.444.01/02



◢ 13.444.11/12

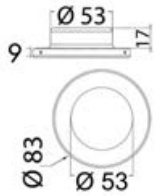
◢ 13.444.11/12

Montsarrat LED ceiling light for recess mounting

IP65 **AISI 304**

White epoxy-powder coated aluminium body, stainless steel finish ring.

Code	Finish	V	W	lumen	K	LED beam angle	No. of LEDs	Light colour
13.445.11	Mirror-polished	12/24	8	500	3000	120°	3 LED HD	white
13.445.12	Nickel satin-finish	12/24	8	500	3000	120°	3 LED HD	white



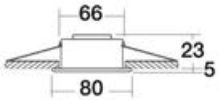
◢ 13.445.11

Asterope halogen ceiling light for recess mounting

IP40 **AISI 304**

Glass diffuser, dichroic parabolic reflector.

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.434.01	mirror-polished	12	20	G4	**14.453.01; 14.100.24**	white
13.434.02	golden	12	20	G4	**14.453.01; 14.100.24**	white



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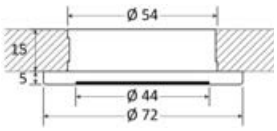
◢ 13.434.02

◢ 13.434.01



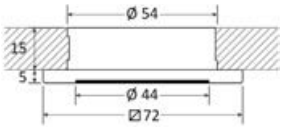
Polis reduced recess fit LED ceiling light

IP66

Traditional round lens dial, polycarbonate frame with mirror-polished stainless steel ring. Satin-finish lens.
Single central LED. Screw mounting.

Type	Recommended switch type	Recommended switch model	Dimmable
A	ON/OFF	Any	No
A	Touch dimmer	14.482.00	Yes
B	ON/OFF	Any	No
B	Switch on momentaneous	14.215.05/06.13/14 or similar	Yes

Code	Switch type	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.488.01	A	Polycarbonate + steel	12/24	2	No	170	3000	80°	1	White
13.488.02	B	Polycarbonate + steel	12/24	2	No	160+50	3000	80°	1	White + red night light
13.488.11	-	Polycarbonate + steel	12/24	2	Yes, dimmerable touch switch	170	3000	80°	1	White
13.488.12	-	Polycarbonate + steel	12/24	2	Yes, dimmerable touch switch	160+50	3000	80°	1	White + red night light



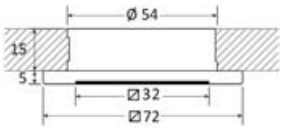
Polis reduced recess fit LED ceiling light

IP66

Round lens with square dial, polycarbonate frame with mirror-polished stainless steel ring. Satin-finish lens.
Single central LED. Screw mounting.

Type	Recommended switch type	Recommended switch model	Dimmable
A	ON/OFF	Any	No
A	Touch dimmer	14.482.00	Yes
B	ON/OFF	Any	No
B	Momentary on switch	14.215.05/06.13/14 or similar	Yes

Code	Switch type	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.489.01	A	Polycarbonate + steel	12/24	2	No	170	3000	80°	1	White
13.489.02	B	Polycarbonate + steel	12/24	2	No	160+50	3000	80°	1	White + red night light
13.489.11	-	Polycarbonate + steel	12/24	2	Yes, dimmerable touch switch	170	3000	80°	1	White
13.489.12	-	Polycarbonate + steel	12/24	2	Yes, dimmerable touch switch	160+50	3000	80°	1	White + red night light



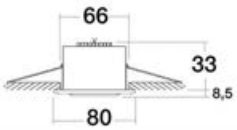
Bos reduced recess fit LED ceiling light

IP66

Square lens with square dial, polycarbonate frame with mirror-polished stainless steel ring. Satin-finish lens.
Single central LED. Screw mounting (IP66 protection degree) or spring mounting (IP40 protection degree).

Type	Recommended switch type	Recommended switch model	Dimmable
A	ON/OFF	Any	No
A	Touch dimmer	14.482.00	Yes
B	ON/OFF	Any	No
B	Switch on momentaneous	14.215.05/06.13/14; 14.482.01 or similar	Yes

Code	Switch type	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.490.01	A	Polycarbonate + steel	12/24	2	No	170	3000	80°	1	White
13.490.02	B	Polycarbonate + steel	12/24	2	No	160+50	3000	80°	1	White + red night light
13.490.11	-	Polycarbonate + steel	12/24	2	Yes, dimmerable touch switch	170	3000	80°	1	White
13.490.12	-	Polycarbonate + steel	12/24	2	Yes, dimmerable touch switch	160+50	3000	80°	1	White + red night light

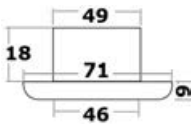


Merope halogen spotlight for recess mounting

IP20 **AISI 316**

Glass diffuser, dichroic parabolic reflector.

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.436.01	mirror-polished	12	20	G4	**14.454.12; 14.454.24**	white



Syntesis LED ceiling light for recess mounting

IP55

Aluminium body, stainless steel finish ring.

Code	Finish	V	W	lumen	K	LED beam angle	No of LEDs	Light colour
13.449.01	Mirror-polished	12/24	3	70	2900-3200	94°	1	white

Procion LED ceiling light, recessless version

IP65 | **AISI 304** | **FLUSH MOUNT**

Stainless steel body. Hidden screw mounting. It comes with 2 front diffusers having different transparency degree.

Code	Finish	V	W	Switch	Lumen	Ø mm	K	LED beam angle	No of LEDs	Light colour
13.441.11	Mirror-polished	12/24	1.2	No	110 (clear diffuser) / 80 (white diffuser)	65	3000	90°	6	White
13.441.12	Mirror-polished	12/24	1.2	Yes	110 (clear diffuser) / 80 (white diffuser)	65	3000	90°	6	White
13.442.11	Mirror-polished	12/24	2.4	No	215 (clear diffuser) / 160 (white diffuser)	86	3000	90°	12	White
13.442.12	Mirror-polished	12/24	2.4	Yes	215 (clear diffuser) / 160 (white diffuser)	86	3000	90°	12	White
13.442.14	Nickel satin-finish	12/24	2.4	Yes	215 (clear diffuser) / 160 (white diffuser)	86	3000	90°	12	White
13.442.25	Golden	12/24	2.4	No	215 (clear diffuser) / 160 (white diffuser)	86	3000	90°	12	White
13.442.26	Golden	12/24	2.4	Yes	215 (clear diffuser) / 160 (white diffuser)	86	3000	90°	12	White

◢ 13.441.11/12

◢ 13.441.xx

◢ 13.442.11

◢ 13.442.25

◢ 13.442.xx

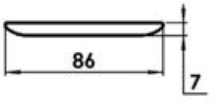
◢ 13.442.26/12/14/ 441.12

Procion (day/night) LED ceiling light, recessless version

IP65 | **AISI 304** | **FLUSH MOUNT**

Stainless steel body. Controlled by a central switch: 1st click = white light, 2nd click = coloured light.

Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.442.15	Mirror-polished	12/24	3.6	143 (white); 29 (coloured)	3000	90°/105°	8 (white); 4 (coloured) White+ blue	White+ blue
13.442.16	Mirror-polished	12/24	3.6	143 (white); 29 (coloured)	3000	90°/105°	8 (white); 4 (coloured) White+ red	White+ red



LED ceiling light, recessless version

IP65 | **FLUSH MOUNT**

Stainless steel body.

Code	Finish	V	W	lumen	K	LED beam angle	No of LEDs	Light colour
13.179.59	Mirror-polished	12	1.86	35	2900-3200	20°	3	white
13.179.80	Mirror-polished	12	3	84	2900-3200	25°	5	white
13.179.85	Mirror-polished	12	3.2	108	2900-3200	25°	6	white
13.179.90	Mirror-polished	12	5	162	2900-3200	25°	9	white

◢ 13.179.59

◢ 13.179.80

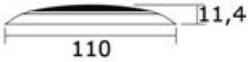
OSCULATI

◢ 13.179.59

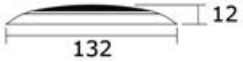
◢ 13.179.80

◢ 13.179.85

◢ 13.179.90



◢ 13.179.85



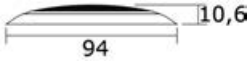
◢ 13.179.90

LED day/night ceiling light, recessless version

IP66 | **AISI 316** | **FLUSH MOUNT**

Stainless steel body.

Code	Finish	V	W	lumen	K	LED beam angle	No of LEDs	Light colour
13.179.81	Mirror-polished	12	3+0,6	84 (white); 2 (coloured)	2900-3200	25°	5 (white); 4 (coloured)	white + red

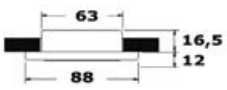


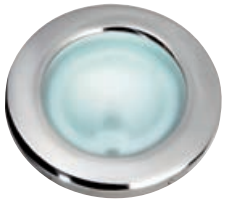
Vega Classic halogen ceiling light for recess mounting

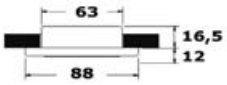
IP65 | **AISI 316**

White epoxy resin coated aluminium body, stainless steel finish ring. Satin-finish glass diffuser.

Code	Finish	V	W	Bulb type	Spare bulb	Light colour
13.433.01	Mirror-polished	12	20	G4	**14.453.01; 14.100.24**	White





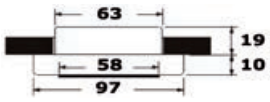


Vega LED ceiling light for recess mounting

IP65 **AISI 304**

White epoxy resin coated aluminium body, stainless steel finish ring. Satin-finish glass diffuser.

Code	Finish	V	W	lumen	K	LED beam angle	No of LEDs	Light colour
13.433.11	Mirror-polished	12/24	4	290	3000	90°	16 LED SMD	☐ white



Capella LED ceiling light for recess mounting

IP65 **AISI 316**

Nylon/fiberglass body, stainless steel ring, satin-finish glass diffuser.

Code	Finish	V	W	lumen	K	LED beam angle	No. of LEDs	Light colour
13.433.30	Mirror polished	12/24	3.6	240	3000	100°	12 LED SMD	☐ white

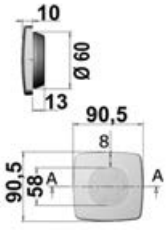
Superyacht LED ceiling light

IP67

AISI 316

PBT body with aluminium heat sink. Precision-cast stainless steel trimming ring. It emits a powerful natural and diffused light.

Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.413.01	Mirror-polished	12/24	7.8	460	3000	50°	1	☐ White



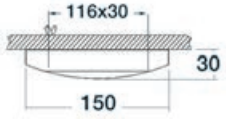
Square LED ceiling light for recess mounting

IP43 **AISI 316**

Polycarbonate body, stainless steel finish ring. Fitted with dual diffuser: opal glass and semi-clear glass.

Code	Finish	V	W	lumen	K	LED beam angle	No o f LEDs	Light colour
13.443.41	Mirror-polished	12/24	4	80	3000	110° (white diffuser) / 105° (satin-finish diffuser)	16 SMD HD LEDs	☐ White

OSCULATI



Polaris recessless ceiling light

IP56 **AISI 316** **FLUSH MOUNT**

Stainless steel body, polycarbonate diffuser.

Code	Finish	V	W	Lumen	Lux @ 1 m	Bulb	Spare bulb	Light colour
13.432.11	Mirror polished	12/24	5	334	173*	LED	-	☐ Warm white (3000 K)

* *Equivalent to 30W halogen bulb.*

OSCULATI

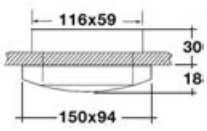
LED ceiling light for recess mounting

IP65

Satin-finish glass diffuser. For use in cockpits or engine rooms.

Code	Finishing	V	W	Lumen	Bulb	Spare halogen bulb	Spare LED bulb	Light colour
13.533.02	Chromed brass	12	1.8	120	LED 2835	-	14.441.11; 14.441.12; 14.441.15	☐ Warm white

OSCULATI



Phad ceiling light for recess mounting

IP65 **AISI 316**

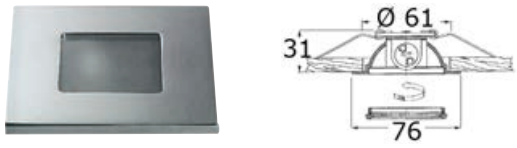
Polycarbonate diffuser.

Code	Finish	V	W	Bulb	Spare bulb	Light colour	Lumen	Lux @ 1 m
13.430.01	Mirror polished	12	20	G4 halogen	14.453.01; 14.100.24	☐ White	-	-

FORESTI E SUARDI Sextans Q halogen ceiling light for recess mounting

Diecast brass body. Satin-finish tempered glass diffuser. **Bulb not included.**

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.468.01	chromed brass	12/24	20	G4	**14.453.01; 14.100.24**	white

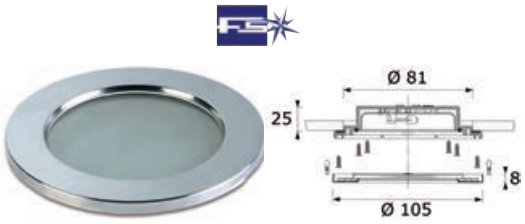


FORESTI E SUARDI halogen ceiling light for recess mounting

IP65

Technopolymer body, stainless steel finish ring. Satin-finish tempered glass diffuser. Metallized aluminium internal parabolic reflector. **Bulb not included.**

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.481.08	mirror-polished	12/24	20	G4	**14.100.24**	white

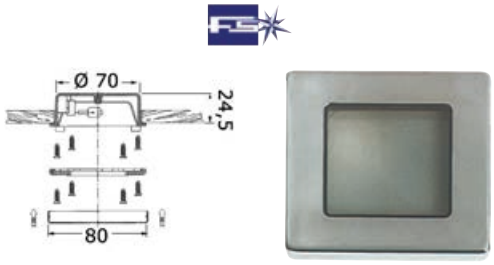


FORESTI E SUARDI Hydra halogen ceiling light for recess mounting

IP65

Technopolymer body, stainless steel finish ring. Satin-finish tempered glass diffuser. **Bulb not included.**

Code	Finish	V	W	Bulb	Spare bulb	Light colour
13.481.01	mirror-polished	12/24	20	G4	**14.454.12; 14.454.24**	white



Italian Style halogen ceiling light, recessless version

FLUSH MOUNT

Stainless steel body. Convex opal glass diffuser. Hidden mounting, hinge opening system for bulb replacement.

Code	Finish	V	W	Switch	Bulb	Optional LED bulb	Spare bulb	Light colour	⟷ mm		
									Ø A	Ø B	C
13.401.90	Mirror-polished	12	20	Yes	G4	**14.441.11; 14.441.12; 14.441.15**	**14.453.01; 14.100.24**	White	152	102	42

Japanese ceiling light, recessless version

FLUSH MOUNT Polycarbonate diffuser. **Halogen bulb version.**

IP65

Code	Finish	V	W	Switch	Bulb	Spare bulb	Optional LED bulb	Light colour	⟷ mm	
									outside Ø A	Glass Ø B
13.543.01	Stainless steel	12	15	Yes	BA15D	**14.200.02; 14.200.03**	**14.443.11; 14.443.12**	white	138	100
13.543.02	Stainless steel	12	15	Yes	BA15D	**14.200.02; 14.200.03**	**14.443.11; 14.443.12**	white	169	125
13.543.11	Mirror-polished lacquered brass	12	15	Yes	BA15D	**14.200.02; 14.200.03**	**14.443.11; 14.443.12**	white	138	100
13.543.22	Mirror-polished lacquered brass	12	15	Yes	BA15D	**14.200.02; 14.200.03**	**14.443.11; 14.443.12**	white	169	125
13.543.06	Polished lacquered brass	12	15	Yes	BA15D	**14.200.02; 14.200.03**	-	white	145	100
13.543.07	Polished lacquered brass	12	15	Yes	BA15D	**14.200.02; 14.200.03**	-	white	155	100

◢ 13.543.22

◢ 13.543.01/02

◢ 13.543.11

◢ 13.543.06/07

New Japanese recessless ceiling LED light

LED **IP65**

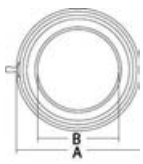
Polycarbonate diffuser.

Code	Finish	V	W*	LED No.	Switch	⟷ mm	
						Ø outside A	Ø Glass B
13.544.01	Stainless steel	12	3.7	20 x 0.2	Yes	138	100
13.544.02	Stainless steel	12	3.7	20 x 0.2	Yes	169	125
13.544.11	Polished lacquered brass	12	3.7	20 x 0.2	Yes	138	100
13.544.12	Polished lacquered brass	12	3.7	20 x 0.2	Yes	169	125

* *Equivalent to 19 W halogen bulb*

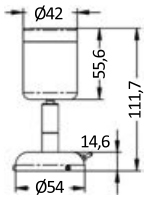
◢ 13.544.01/02

◢ 13.544.11



◢ 13.544.22

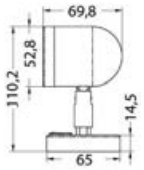
► Metal reading/chart lights



LED spotlight

ABS.

Polished brass	Polished SS	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.904.02	**13.904.01**	12	3	Yes	85	2900-3200	24°	1 x HD LED	☐ White



LED spotlight

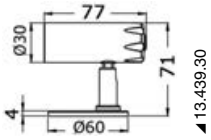
ABS. 360° rotation. 120° swivel motion.

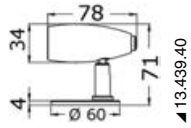
Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No. of LEDs	Light colour
13.947.10	Polished SS	12/24	3.2	Yes	154	2900-3200	42°	16 LED HD	☐ White
13.947.11	Polished and lacquered brass	12/24	3.2	Yes	154	2900-3200	42°	16 LED HD	☐ White

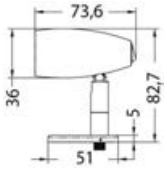
Kuma e Rana LED spotlight

Mirror-polished stainless steel body, chromed aluminium head. Switch on the head top.

Code	Model	V	W	Switch	Lumen	K	LED beam angle	N. of L EDs	Light colour
13.439.30	Kuma	12/24	3	Yes	150	3000	40°	1 HD LED	☐ White
13.439.40	Rana	12/24	3	Yes	150	3000	40°	1 HD LED	☐ White



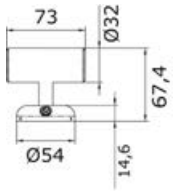




LED spotlight

Very small reading light. Chromed brass body.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.439.50	Chromed bras	12/24	2.2	Yes	52	2900-3200	80°	12	☐ White



Fixed LED spotlight with double light source

Stainless steel body. Bulkhead mounting. Upward and downward light.

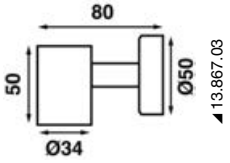
Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.438.80	Mirror-polished	12/24	2.1	Yes	68	2900/3200	45°	2	☐ White

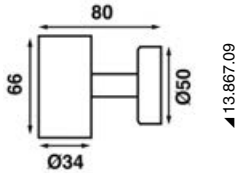
Båtsystem

BATSYSTEM Tube LED spotlight with USB outlet

Polished aluminium body.

Code	Light direction	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.867.03	Downwards	12	0.6	yes	60	3000	120°	18	☐ White
13.867.09	Up/downwards	12	1.2	yes	60x2	3000	120°	18x2	☐ White





BATSYSTEM Leia articulated LED spot light

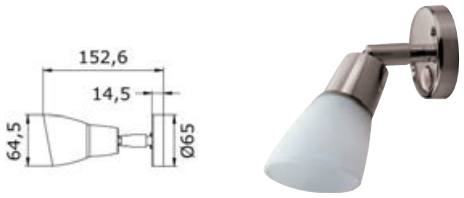
Fitted with 2A USB plug.
Dimmerable touch switch that stores the light intensity set when last lit up.

Code	Finishing	V	W	Lumen	K	Switch	Dimmer
13.867.20	Polished	12	3	270	3200	Yes	Yes
13.867.21	Black	12	3	270	3200	Yes	Yes

LED spotlight

Stainless steel body. Opal technopolymer diffuser. plastic lampshade.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.438.90	Mirror-polished	12/24	2	Yes	240	3000	63°	12 SMD	White



BATSYSTEM Opal halogen spotlight

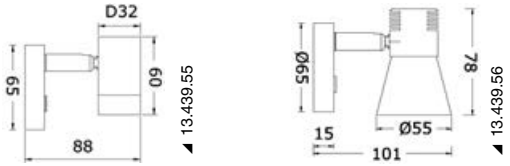
Brass body, white opal glass diffuser.

Code	Finish	V	W	Switch	Bulb	Spare bulb	Optional LED	Light colour
13.869.02	Polished brass	12	10	Yes	G4	**14.454.12; 14.454.24**	**14.441.11; 14.441.12; 14.441.15**	White

Dimming LED light

Aluminium body. Touch switch.

Code	Finish	Switch	V	W	Lumen	K	LED beam angle	No of LEDs	Light colour
13.439.55	Brushed and nickel-plated aluminium	Dimmable	10/30	1	141	3000	80°	1	White
13.439.56	Chromed aluminium + glass diffuser	Dimmable	10/30	3	203	3000	80°	1	White



CREE LED reading spotlight

Chromed aluminium body. Touch switch.

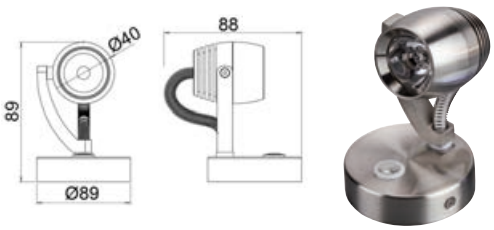
Code	Finish	V	W	Switch	Lumen	K	LED beam angle	N. of LEDs	Light colour
13.439.58	Chromed aluminium	12/24	2.7	Yes	150	3000	80°	1 LED CREE	White

LED spotlight

IP20

Made of chromed aluminium with touch (dimmerable) switch.
Switch positions:
1: all off.
2: blue LED light on the switch brim (courtesy light).
3: spotlight on.

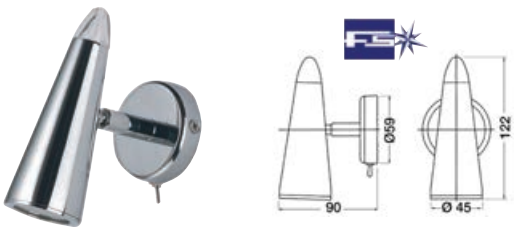
Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour
13.439.52	Satin chrome	12/24	3	120	3000	80°	1	White + blue



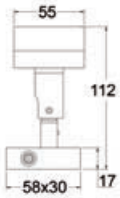
FORESTI E SUARDI Argo halogen bedside spotlight

Precision-cast brass body, sodic tempered satin-finish glass. **Bulb not included.**

Code	Finish	V	W	Switch	Bulb	Optional light bulb	Light colour
13.485.01	Chromed brass	12/24	10	Yes	G4	**14.454.12; 14.454.24**	White



◢ 13.439.03



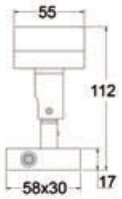
Laguna halogen spotlight

Turned brass body, satin-finish glass diffuser.

Code	Finish	V	W	Switch	Bulb	Spare bulb	Light colour
13.439.02	Golden brass	12	10	Yes	G4	**14.454.12; 14.454.24**	White
13.439.03	Nickel color satin finish brass	12	10	Yes	G4	**14.454.12; 14.454.24**	White

◢ 13.439.xx

◢ 13.439.21

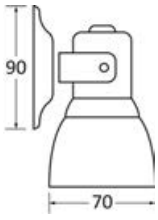


Laguna LED spotlight

Turned brass body, satin-finish glass diffuser.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.439.15	Chromed brass	12/24	3	Yes	88	3000	60°	1 x HD LED	White
13.439.17	Nickel-colour satin-finish brass	12/24	3	Yes	88	3000	60°	1 x HD LED	White
13.439.21*	Chromed brass	12/24	3	Yes	88	3000	60°	1 x HD LED	White

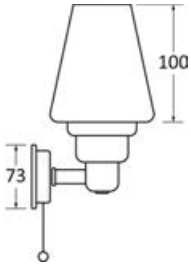
* *Lightweight version with round base plate.*



Deluxe halogen spotlight

Brass body.

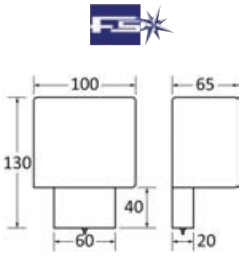
Code	Finish	V	W	Switch	Bulb	Spare bulb	Optional LED	Light colour
13.203.00	Mirror-polished lacquered brass	12	10	Yes	BA15D	**14.200.02**	**14.443.11/ 12/15/16/17**	White



Glow Light halogen spotlight, fixed version for bed headboard

Aluminium body.

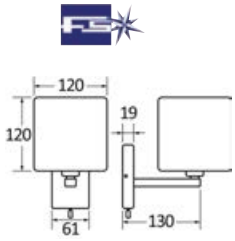
Code	Finish	V	W	Switch	Bulb	Spare bulb	Optional LED	Light colour
13.207.00	Satin-finish and gold-anodized aluminum	12	10	Yes	G4	**14.454.12; 14.454.24**	**14.441.11/ 12/15**	White



FORESTI E SUARDI bedhead halogen spotlight - fixed version for bed headboard

Brass body, self-extinguishing lampshade covered in ivory silk. **Bulb not included.** G4 screw.

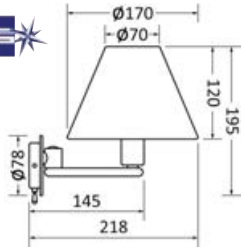
Code	Finish	V	W	Switch	Optional bulb	Light colour
13.483.10	Chromed brass	12/24	20	Yes	**14.453.01; 14.100.24**	White



FORESTI E SUARDI bedhead articulated spotlight

Precision-cast brass body, self-extinguishing lampshade covered in ivory silk. **Bulb not included.**

Code	Finish	V	W	Switch	OPTIONAL LED	Light colour
13.483.11	Chromed brass	12/24	40	Yes	**14.443.20; 14.443.21; 14.443.10**	White



FORESTI E SUARDI Maia bedhead articulated spotlight

Brass body, self-extinguishing lampshade covered in ivory silk. **Bulb not included.** E14 screw.

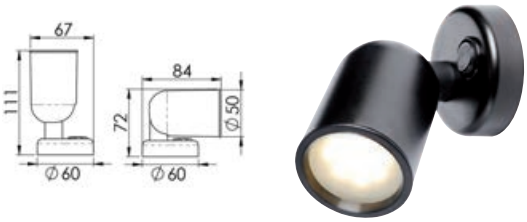
Code	Finish	V	W	Switch	OPTIONAL LED	Light colour
13.483.08	Chromed brass	12/24	40	Yes	**14.443.20; 14.443.21; 14.443.10**	White

► Plastic reading/chart lights

LED spotlight

Made of ABS.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No. of LEDs	Light colour
13.517.00	Black	12/24	2	Yes	50	2900-3200	90°	16 LED G4	White

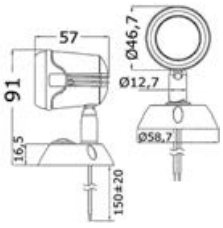


LED spotlight

Made of ABS with chromed brass articulation. Rotation: 300°. Up/down: 90°.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.896.01	White	12/24	1.32	Yes	150	3500	40°	1 HD LED	White
13.896.02	Black	12/24	1.32	Yes	150	3500	40°	1 HD LED	White

OSCULATI

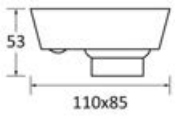


BATSYSTEM Eyelight halogen spotlight

ABS.

Code	Finish	V	W	Switch	Bulb	Spare bulb	Light colour
13.870.74	White	12	8	Yes	G4 with dichroic reflector	**14.921.20; 14.921.24**	White

Båtsystem

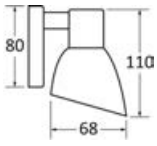


BATSYSTEM Opal II halogen spotlight.

ABS, opal glass diffuser.

Code	Finish	V	W	Switch	Bulb	Spare bulb	Optional LED	Light colour
13.869.03	Chromed	12	10	Yes	G4	**14.454.12; 14.454.24**	**14.441.11; 14.441.12; 14.441.15**	White

Båtsystem

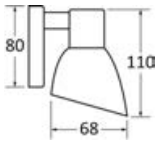


BATSYSTEM Opal II LED spotlight

ABS, opal glass diffuser.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.869.13	Chromed	8/30	1.2	Yes	80	3000	360°	15 x SMD LEDs	White

Båtsystem

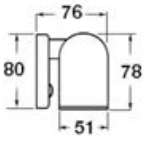


BATSYSTEM Tube halogen spotlight

ABS.

Code	Finish	V	W	Switch	Bulb	Spare bulb	Light colour
13.868.00	White	12	5	Yes	G4	**14.454.12; 14.454.24**	White
13.868.02	Chromed	12	5	Yes	G4	**14.454.12; 14.454.24**	White

Båtsystem

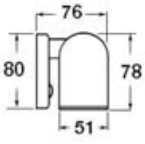


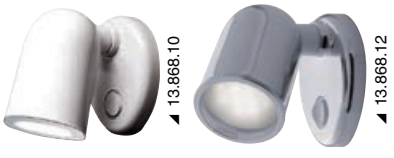
BATSYSTEM Tube halogen spotlight

ABS.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour
13.868.10	White	8/30	2.4	Yes	150	3000	120°	12 x SMD LEDs	White
13.868.12	Chromed	8/30	2.4	Yes	150	3000	120°	12 x SMD LEDs	White

Båtsystem





► Articulated spotlights

Articulated reading LED spotlight

Mirror-polished stainless steel baseplate and chromed brass head.

Code	Arm finish	V	W	Switch	Lumen	K	LED beam angle	Light colour	⟷ mm base	⟷ mm arm
13.237.03	Polished stainless steel	12/24	3	Yes	79	3000	40°	White	63x41	320
13.237.05	Black leather coating	12/24	3	Yes	79	3000	40°	White	63x41	320
13.237.06	Brown leather coating	12/24	3	Yes	79	3000	40°	White	63x41	320

New

Articulated reading LED spotlight

IP40

Polished stainless steel spotlight and baseplate. articulated arm coated in black silicone.
Fitted with USB socket on the base. Touch switch on the head.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm base	⟷ mm arm
13.237.07	Black silicone	12/28	3	Yes	167	3000	50°	1	white	65x37	300

Articulated LED light for bedhead and chart table

Chromed brass body.

Code	V	W	Switch	Lumen	K	LED beam angle	Light colour	⟷ mm base	⟷ mm arm
13.236.90	12/24	1.2	Yes	52	2900-3200	110°	White	54	460

14.654.02 *OPTIONAL dimmer.*

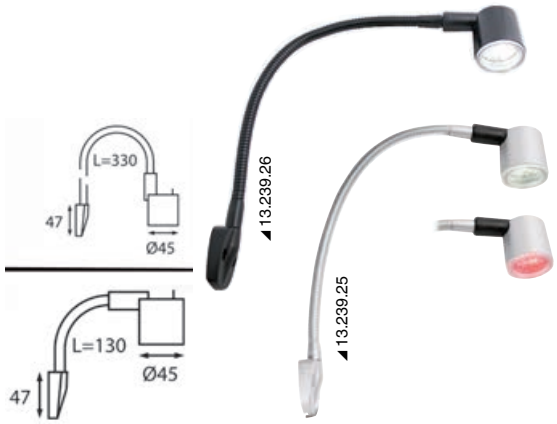
Articulated LED spolight for bedhead and chart table

Brushed and nickel-plated aluminium body. Methacrylate reflector.

Code	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Light colour	⟷ mm base	⟷ mm arm
13.236.92	10/30	1	Yes	143	3000	120°	1	White	Ø 35	491

Articulated LED spotlight for bedhead and chart table

Code	Finish	V	W	Switch	No of LEDs	Arm mm	Light colour
13.239.24	Black	12	1.3	Yes	6 SMD LEDs	330	White + night red
13.239.25	Silver titanium	12	1.3	Yes	6 SMD LEDs	330	White + night red
13.239.26	Silver titanium	12	1.3	Yes	6 SMD LEDs	130	White + night red



LABCRAFT ML articulated LED spotlight for chart table

Dual light.

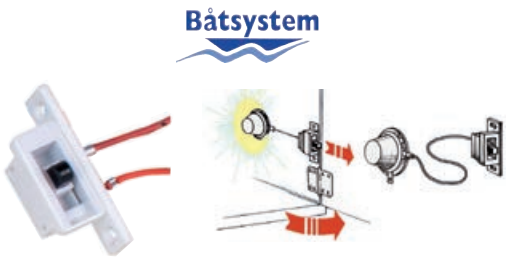
Code	V	W	Switch	Lumen	K	LED beam angle	Light colour	⟷ mm base	⟷ mm arm
13.228.11	12	0.85	Yes	72	6100 - 6900	115°	White + night red	35x18	460

► Spotlight for cabinets

Courtesy light with automatic switching

Suitable for closets or cabinets; fitted with electrical cable and spring switch for mounting onto the door leaf, which activates the light when it opens.

Code	Finish	V	W	Lumen	Light colour	Ø base mm	Overhang mm	Spare bulb
13.893.00	White ABS	12	4	50	White	32	37	**14.250.00**



Courtesy light with automatic activation and Feton 1 independent power supply

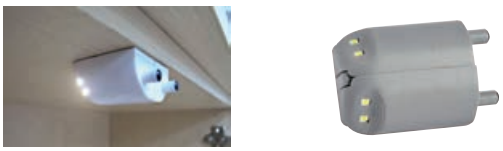
Activated by sensor (Maximum distance 10m). Suitable for wardrobes, closets lockers, toilets. To be fixed on recessed plate or with adhesive.

Code	Finish	W	Lumen	No of LEDs	Batteries	⟷ mm
13.851.50	Grey ABS	0.14	10/12	1	LI154 / LR44 (3 pcs)	50x15x16 h

Courtesy light with automatic activation and Feton 2 independent power supply.

Activated by pressure (on door opening). Suitable for wardrobes, lockers, closets, installation with bayonet fixing or adhesive.

Code	Finish	W	Lumen	No of LEDs	Batteries	⟷ mm
13.851.07	Grey ABS	0.07	14/18	4	LI154 (6 pcs)	50x41x20 h



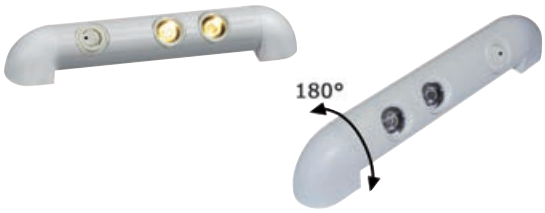
Courtesy light with automatic activation and Feton 3 independent power supply

Activated by sensor (Maximum distance 10m). Suitable for drawers, lockers, and compartments (for example fridges, drawers and low cupboards in the bathroom and kitchen) to be fixed with screws or adhesive.

Code	Finish	W	Lumen	No of LEDs	Batteries	⟷ mm
13.851.10	Grey ABS	0.14	40	4	LR03 AAA (3 pcs)	176x20x33 h

► Metal light strips

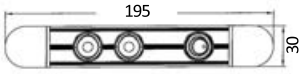
OSCULATI



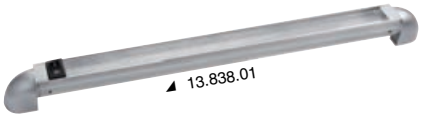
180° adjustable LED light

Made of white coated aluminium, fitted with 1W high powetr LEDs and switch. Very versatile thanks to the 180° swivelling system.

Code	V	W	Lumen	K	No of LEDs	⟷ mm
13.838.20	9-30	2.5	72	3500	2	195x30x33 h



◢ 13.838.01



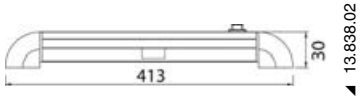
◢ 13.838.01

◢ 13.838.02

Turnstripe LED track light, rotating version

High intensity LED light and built-in switch; anodized aluminium body, opaline front glass.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	Length mm
13.838.01	12/24	1	50	4000	120°	8	260
13.838.02	12/24	2	81	4000	105°	16	413

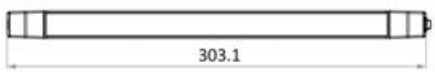


New **Slash 360° adjustable LED ceiling light**

Adjustable 360° chromed aluminium LED strip with polycarbonate lens.
Ideal for undercabinet installation. When rotated, it creates direct or diffused lights depending on its position.
Easy installation with a two-adhesive tape system that centers the supports with no need of template.

Code	V	W	Switch	Lumen	⟷ mm	
					Length	projection
13.838.12	12	2	Yes	145	303.1	45
13.838.24	24	2.2	Yes	162	303.1	45

Available as of May 2022

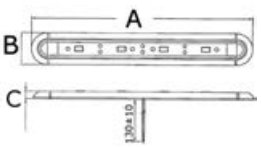


OSCULATI

Slim Mini shock-resistant light

IP67 Extraflat courtesy lights suitable for all uses. Epoxy resin + technopolymer coated case.

Code	V	W	Lumen	K	LED angle beam	No of SMD LEDs	⟷ AxBxC mm
13.197.21	12	0.6	41	4000	120°	2	82x19x6.8 h
13.197.22	12	1.2	82	4000	120°	4	131x19x6.8 h
13.197.23	12	1.8	119	4000	120°	6	181x19x6.8 h
13.197.24	12	2.7	155	4000	120°	8	230x19x6.8 h
13.197.25	12	3.4	212	4000	120°	10	280x19x6.8 h



◢ 13.197.22

◢ 13.197.21

◢ 13.197.23

► Plastic light strips

Cobo spotlight

Genuine Cobo white polycarbon ceiling light with switch. Fastoon bulbs not included.

Code	Finish	Switch	Length cm	OPTIONAL bulb	OPTIONAL LED
13.523.01	White polycarbonate	Yes	12	**14.300.00; 14.300.01**	**14.300.32**
13.523.02	White polycarbonate	Yes	17	**14.300.00; 14.300.01**	**14.300.32**

13.523.01

13.523.02

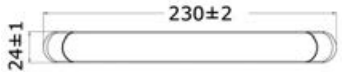
Free-standing watertight LED light fixture

OSCULATI

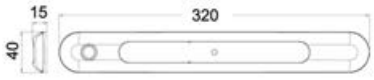
IP66 LED SMD-HD high-efficiency light source. **Flat base** version, ideal for engine compartments, bathrooms, kitchens, under boom on sailing boats, etc.

Code	Finish	V	W	Lumen	K	LED beam angle	LED	Switch	⟷ mm
13.192.00	White	12	3.4	360	4000	70°	10 SMD-HD	No	230x24x11 h
13.192.01	Polished AISI316 SS	12	6	450	4000	30°	10 SMD-HD	No	238x34x8.4 h
13.192.10	White	12	5.4	450	4000	50°	10 SMD-HD	Yes	320x40x15 h
13.192.11	Chromed	12	5.4	450	4000	50°	10 SMD-HD	Yes	320x40x15 h

13.192.01



13.192.00



13.192.10/11

13.192.00

13.192.10

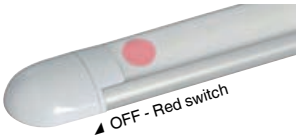
13.192.01

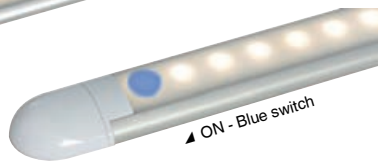
13.192.11

Linear overhead LED light

14 LED SMD-HD high-efficiency light source. Light alloy base with polycarbonate opal lens. Round switches with built-in blue/red LED.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	⟷ mm
13.192.40	White	12	5.2	Yes	228	3000	120°	14	345x33x12 (H)


OFF - Red switch


ON - Blue switch

LABCRAFT Astro LED strip light

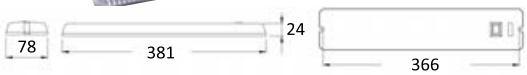
LED 24 HD Superflux LEDs are used which are embedded in a watertight clear resin structure. Light performance at 1-mt distance equal to a 10-watt halogen bulb but with 1/5 consumption.

Code	Finish	V	W	Current draw A	Lumen	K	LED beam angle	No of LEDs	⟷ mm
13.198.01	Grey technopolymer	12	3.7	0.18	288	6100 - 6900	115°	24	592x43x 30 h
13.198.02	Grey technopolymer	24	3.7	0.9	288	6100 - 6900	115°	24	592x43x 30 h

LABCRAFT Trilite table light

Fitted with **switch** and **anti-interference** device. High-resistance **methacrylate** body.

Code	Version	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	⟷ mm
13.340.16	HD LED	12	3	Yes	320	6100 - 6900	115°	12	381x78x 24 h
13.340.17	HD LED	24	3	Yes	320	6100 - 6900	115°	12	381x78x 24 h
13.340.18	HD LED	12	6	Yes	640	6100 - 6900	115°	24	381x78x 24 h
13.340.19	HD LED	24	6	Yes	640	6100 - 6900	115°	24	381x78x 24 h



13.340.16

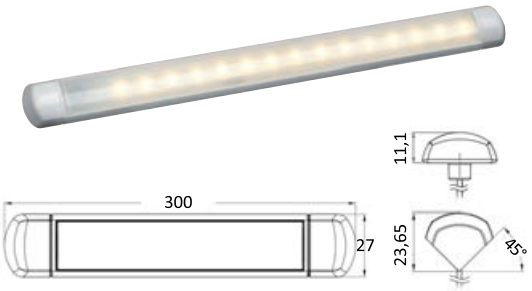
Fissaggio fori - Fixing holes Ø 4,5 mm

OSCULATI

Straight overhead LED lights

ON-OFF switch, white body + satin light bulb.
They replace the equivalent ones fitted with fluorescent tube and offer lower consumption and longer duration.

Code	Light	V	W	Lumen	K	No of LEDs	⟷ mm	LED beam angle
13.555.13	White	12	6.3	457	5600	18	410x65x35 h	120°
13.556.13	White	12	12.7	889	5600	36	410x95x35 h	120°

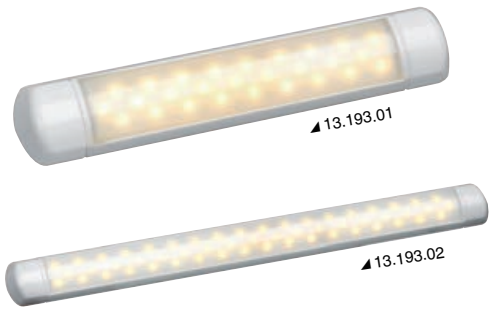


Watertight LED table light with touch switch

IP66

HD LED light source.
Ideal for bathrooms, kitchens, peaks, engine rooms, booms, sailing boats, etc.
For flat mounting, it also comes with a kit for mounting at 45°.
Blue light touch switch.

Code	V	W	Lumen	K	LED beam angle	No of LEDs
13.193.21	12/24	6	140	3300	130°	16



LED fluorescent light, watertight free-standing version

IP66

SMD LED light source. Flat mounting. Ideal for bathrooms, kitchens, peaks, engine rooms, under boom on sailing boats, etc. White technopolymer body.

Code	V	W	Lumen	K	LED beam angle	No. of LEDs
13.193.01	12/24	1.8	72	3325	110°	27
13.193.02	12/24	2.4	142	3325	110°	54

► Light strips

Labcraft

LABCRAFT Orizon LED strip lights

IP66

LED

Transparent polycarbonate light bars with Cree Superflux high-efficiency and low-consumption LEDs. Mounting by means of 2 screw or self-adhesive tape. Ultra-reduced section (18 x 11 mm). 100% watertight since all parts are inside the polycarbonate extruded body.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour	Length mm	Section mm
13.843.03	12	3	320	6100-6900	115°	12	White	272	18x11
13.843.04	24	3	320	6100-6900	115°	12	White	272	18x11
13.843.01	12	6	640	2000-3000	115°	24	White	522	18x11
13.843.02	24	6	640	2000-3000	115°	24	White	522	18x11
13.843.05	12	12	1280	2000-3000	115°	48	White	1022	18x11
13.843.06	24	12	1280	2000-3000	115°	48	White	1022	18x11

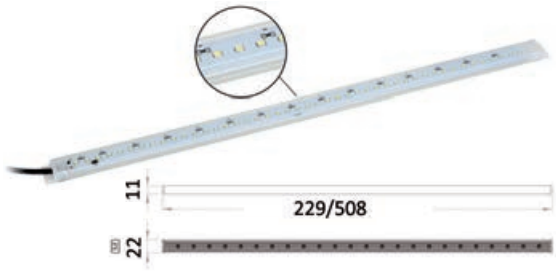
Orizon lights are made in England.

LED light strip

IP66

LED

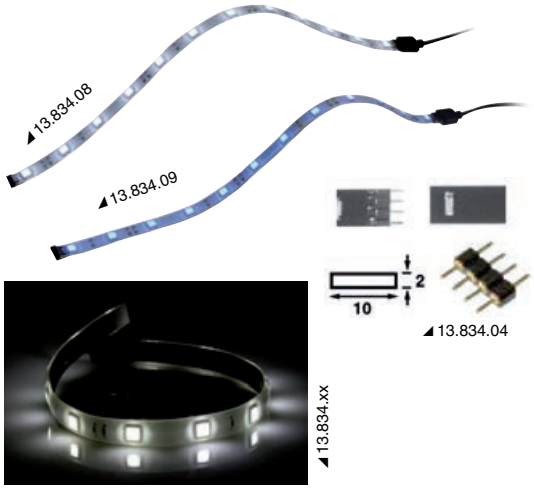
Light strip made of clear thermoplastic with 2835 LEDs. 4-screw mounting or with double-sided tape. 100% watertight. LEDs are embedded in the front resin element. ideal for indirect lighting in dinettes and cabins.



Code	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour	Length mm	Section mm
13.844.01	12	3	265	5800	120°	17	White	229	22x11
13.844.06	12	6	529	5800	120°	45	White	508	22x11

Ambient strip lights, flexible version

Self-adhesive, waterproof, equipped with end micro-connector allowing to connect them in series and with connection cable with micro-connector..



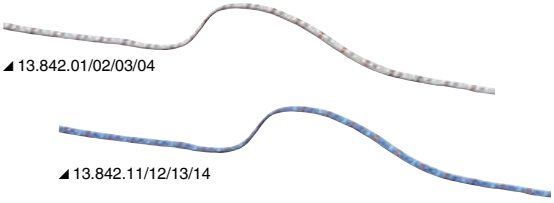
Code	V	W	Absorption mA	Lumen	K	LED beam angle	No of LEDs	LED colour	Length mm	Section mm
13.834.01	12	2.8	70	180	2700	120°	12 SMD	White	300	10x3
13.834.03	12	2.8	70	54	2700	120°	12 SMD	Blue	300	10x3
13.834.05	12	3.6	90	210	2700	120°	15 SMD	White	500	10x3
13.834.06	12	3.6	90	63	2700	120°	15 SMD	Blue	500	10x3
13.834.08	12	7.2	150	450	2700	120°	30 SMD	White	1000	10x3
13.834.09	12	7.2	150	135	2700	120°	30 SMD	Blue	1000	10x3
13.834.11	12	10.8	200	675	2700	120°	45 SMD	White	1500	10x3
13.834.12	12	10.8	200	202	2700	120°	45 SMD	Blue	1500	10x3

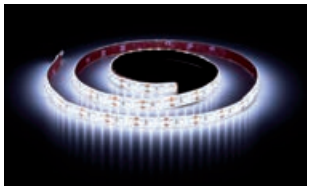
"Superbright" LED light

Flexible LED light strip

IP65

Fitted with 30-cm bipolar end cord. They can be cut every 2.5 cm (12V) or 5 cm (24V). Self-adhesive with 3M original tape.



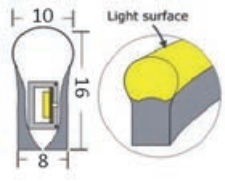


Code	V	W	Lumen/ m	K	LED beam angle	No. of LEDs	LED colour	Length mm	Section mm
13.842.01	12	12	1000	3000	120°	120	Warm white	1000	10x4
13.842.02	12	24	1000	3000	120°	240	Warm white	2000	10x4
13.842.03	24	12	1000	3000	120°	120	Warm white	1000	10x4
13.842.04	24	24	1000	3000	120°	240	Warm white	2000	10x4
13.842.11	12	12	300	-	120°	120	Blue	1000	10x4
13.842.12	12	24	300	-	120°	240	Blue	2000	10x4
13.842.13	24	12	300	-	120°	120	Blue	1000	10x4
13.842.14	24	24	300	-	120°	240	Blue	2000	10x4

Neon Light flexible LED strip, even light

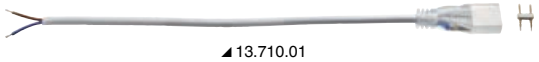
IP68

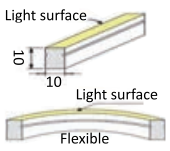
2-m bars. They can be very easily **cut to measure** keeping into account that the master contact is placed every 50 cm (marked on the bar).
Yet the bar can also be cut every **10 or 5 cm** (thus avoiding waste) being extremely careful in the process.
This technology delivers **even and diffused light**.
For interior and exterior applications.



Code	V	W/m	Lumen	K	LED beam angle	No of LEDs/m	LED colour	Length m	Section mm
13.701.12	12	10	380	3000	120°	120	Warm white	2	8x16
13.701.24	24	10	380	3000	120°	120	Warm white	2	8x16
13.702.12	12	10	100	-	120°	120	Blue	2	8x16
13.702.24	24	10	100	-	120°	120	Blue	2	8x16

13.710.01 *Electric cord fitted with 1 junction.*
13.710.02 *Electric cord to connect 2 bars fitted with 2 junctions.*
13.710.03 *Aluminium clip to fasten 2 bars.*
13.710.04 *End cap.*





Neon Light flexible LED strip, even light

IP65

10x10 mm **square section** version with silicone body. 3-m bars.
They can be cut every **5 cm**.
Ideal to be integrated into the **cabin roof** for diffused and uniform light.
For **interior and exterior applications**.
Accessory line for universal applications.

Code	V	W/m	Lumen	K	LED beam angle	No of LEDs/m	LED colour	Length m	Section mm
13.704.12	12	12	380	3000	120°	120	Warm white	3	10x10
13.704.24	24	12	380	3000	120°	120	Warm white	3	10x10
13.705.12	12	12	100	-	120°	120	Blue	3	10x10
13.705.24	24	12	100	-	120°	120	Blue	3	10x10

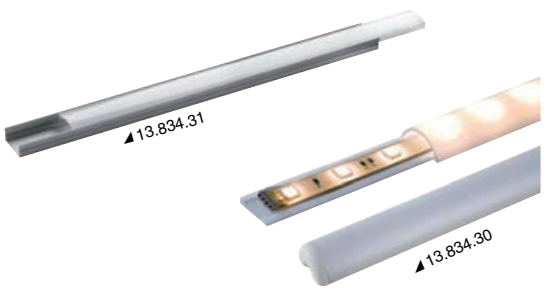
13.705.01 *Aluminium clips for strip mounting*
13.705.03 *90° cable outlet lid*
13.705.04 *Linear cable outlet lid*
13.705.05 *Blind end lid*
13.705.10 *SS flexible support for 2-m LED light strip. It can be used as a single piece, in pieces or in the single elements.*

SMD LED strip light, semi-rigid version

IP65

Flexible **self-adhesive** aluminium base. The strips can be **combined** head to head by means of their male/female end plug or can be cut every 100 mm thus obtaining the length needed.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour	Length mm	Section mm
13.834.20	12	7.2	450	2700	120°	30	White	500	12x3.2
13.834.21	12	7.2	135	2700	120°	30	Blue	500	12x3.2
13.834.22	24	3.6	585	2700	120°	30	White	500	12x3.2



Profile to embed LED strips

This profile is sold in bars and consists of a base to be fixed to the wall and a translucent methacrylate covering. LED strips not exceeding 12-mm width can be placed inside.
The bars can be aligned to get any legnth or cut to measure.

Code	Description	Length mm	Section mm
13.834.30	White plastic base profile + methacrylate cover + 2 terminals	1000	25x10 h
13.834.31*	Anodized aluminium base profile + methacrylate cover + 2 terminals + fastening clips	1000	17.3x8.4 h

* *Designed for bars 13.842.xx*

BATSYSTEM U-Pro-System LED strip lights with built-in switch

360° swivelling light bars. Anodized aluminium body with built-in SMD LEDs shielded by glazed plexiglass. The system is equipped with several types of supports that make it very versatile. It can be produced in any length.

Code	Type	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Length mm
13.839.01	U-Pro 230	12	1.56	Yes	150	3000	120°	60	230
13.839.03	U-Pro 480	12	3.52	Yes	417	3000	120°	120	470

13.839.01

13.839.03

► Watertight lights for cockpits, engine housings, service rooms

Cockpit light

IP56

Designed to be installed without recess fitting wherever safety lights are required (engine rooms, instrument panels, cabin entrance stairs, cockpits and storerooms). White UV resistant Luran body, waterproof.

Code	V	K	No of LEDs	⟷ mm	Spare bulb	
					12V	24V
13.540.00	12	-	-	80x42x38	**14.400.02**	**14.400.03**
13.539.12	12	6500	4	80x42x38	-	-

OSCULATI

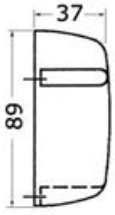
Courtesy Light watertight light with clear plexiglas lens

IP56

Specially suitable for lighting engine rooms, lockers or cockpits.

Code	V	K	No. of LEDs	Glass color	Spare bulb	
					12V	24V
13.530.01	12	-	-	White	**14.300.00**	**14.300.01**
13.529.12	12	6500	18	White	-	-
13.529.24	24	6500	18	White	-	-

OSCULATI



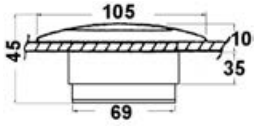
Courtesy Light cockpit light, built-in version

IP56

100% watertight, fitted with very sturdy plexiglass clear lens, designed for mounting on the cockpit bulkheads or on the flybridge. Also suitable as dock light for stern mounting and it may also be used as underwater light in tanks or pools. UV-resistant Luran body.

Code	V	K	No of LEDs	Glass color	Spare bulb	
					12V	24V
13.530.00	12	-	-	White	**14.300.00**	**14.300.01**
13.528.12	12	6500	18	White	-	-
13.528.24	24	6500	18	White	-	-

OSCULATI



LED ceiling light

IP67

LED

24 reflected LED lights inside a ultra-resistant watertight body. Ideal for confined places such as bilges, cockpits, flybridge and any place needing very bright and sturdy lights. Touch-control blue light switch. 3 light level modes.

Code	V	W*	Lumen	K	LED beam angle	No of LEDs	⟷ mm
13.199.05	10/30	3/6/9	1780	4500	120°	24	Ø 130 x 18.5 h

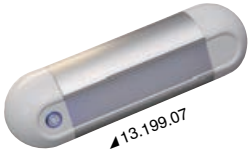
* *depending on the level chosen*

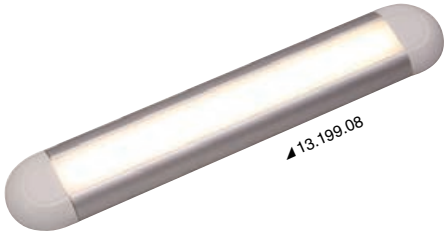
LED ceiling light for interior and exterior applications

IP67

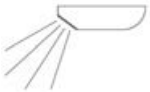
Anodized aluminium body + technopolymer. Suitable for use in cabins, bilges, peaks, engine rooms, cockpits, flybridge and confined rooms. Flat mounting without bores.

Code	Switching on	V	W	Lumen	K	LED beam angle	No of LEDs	⟷ mm
13.199.06	Automatic with motion sensor	12/24	4.4	195	3000	90°	22	160x53x12
13.199.07	With touch switch	12/24	6.4	250	3000	90°	32	200x60x35
13.199.08	With touch switch	12/24	11.6	550	4500	90°	58	300x53x12

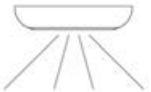




◢13.199.07



◢13.199.06/08



Watertight spotlight

Watertight lamp, bayonet lamp-holder + screw lamp-holder; specially suitable for machine rooms and deck lighting.

Code	Material	Ø mm	max bulb watt
13.202.89	chromed brass	155	60

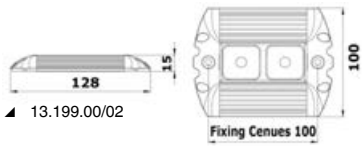
LABCRAFT Microlux LED hi-tech ceiling light

Labcraft

IP67 **LED**

It consists of Superlux LEDs embedded in a IP67 watertight extraresistant structure. With a 90° light opening, it is ideal for applications in damp or exposed environments (bilges, cockpits, flybridge, etc.)

Code	Type	Frame colour	V	W	Lumen	K	LED beam angle	LED	⟷ mm
13.199.00	MICROLUX	Black/Grey	12/24	2.7	320	5700 - 6500	180°	2	128x100x15
13.199.02	SUPERLUX	White/Silver	12/24	6	568	5700 - 6500	180°	2	128x100x15

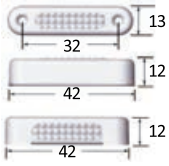


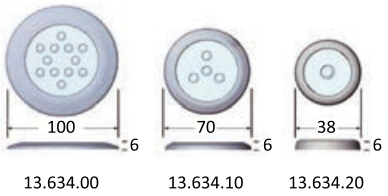
ATTWOOD LED courtesy light

attwood

IP67 **LED**

Installation **without additional components**. Polished stainless steel finishing collar. Totally waterproof, suitable for indoor and outdoor use.





Light type		Versions	V	W	No of LEDs	Light beam	Ø mm	Overhang mm	⟷ mm
White	Blue								
13.634.00	-	Round	12	3	6	-	100	6	-
13.634.10	-	Round	12	1.8	3	-	70	6	-
13.634.20	-	Round	12	1.1	1	-	38	6	-
13.634.30	**13.634.31**	Oval, also suitable for gangplanks and ladders	12	1	4	horizontal	-	12	42
13.634.40	-	Oval, also suitable for gangplanks and ladders	12	1	4	vertical	-	12	42

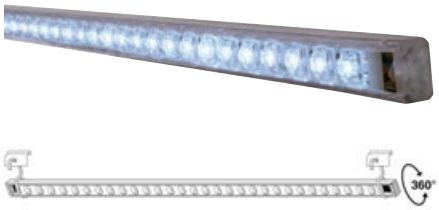
► Table and cockpit lighting

Båtsystem

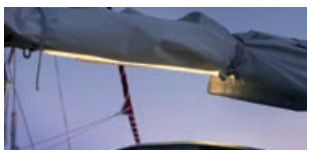
Portable LED strip

IP65

This IP65 watertight light strip can be fixed anywhere and lights up, permanently or temporarily, cabins, cockpits, engine housings, etc., with very low current draw.



Code	Description	No of LEDs	V
13.835.05	50-cm bar	30	12



Aurora pop-out LED table light

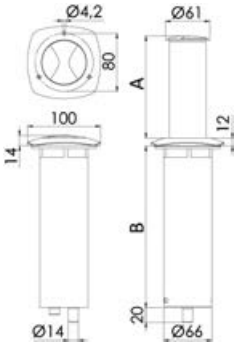
LED

Flush with the table top when off, it pops out and automatically lights up by slightly rotating the stainless steel upper ring. **Dimmer switch** upon request (13.448.01) to dim the light for ambient effect. Mirror-polished AISI316 stainless steel upper element.

Code	Version	V	W	Lumen	K	Optional dimmer	⟷ A-B mm
13.448.00	Standard	12/24	7	500	3000	**13.448.01**	140-222
13.448.06	Short	12/24	7	500	3000	**13.448.01**	71-110

1 dimmer can manage up to 6 lamps at a time.

OSCULATI



Video

Pull-out table lamp for cockpit tables

The power supply comes through base 13.440.10 (sold separately). Stainless steel pole with snap clutch. The table lamp is made of plastic material.

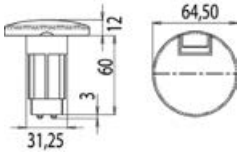
Code	V	W	⟷ mm	OPTIONAL base
13.440.03	12	10	180x340	**13.440.10**

13.440.10 *Base dimensions: 63x64x31 mm (sold separately)*

Spare bulb, see 14.200.02 or LED 14.443.11

Base for pull-out poles

13.440.10 Base with AISI 316 stainless steel cap.



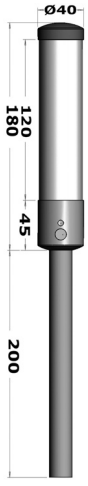
Pull-out LED light pole for table applications

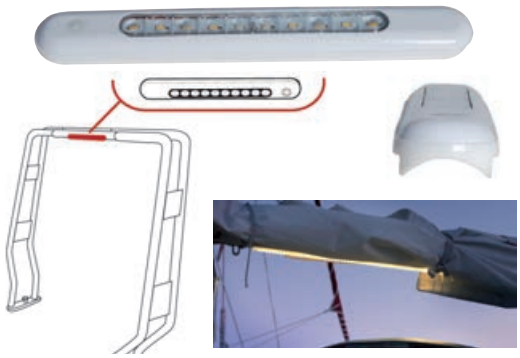
Designed to light up indoor/outdoor tables. Mirror-polished stainless steel LED light pole, chromed brass lamp holder. Light intensity (100% - 50% - 20% - 0) adjustable by means of a touch switch. 12V power supply through a base 13.440.10 sold separately.

Code	V	W	Lumen	K	LED beam angle	No of LEDs	OPTIONAL base
13.440.02	12	4.2	440	3000	360°	48	**13.440.10**

13.440.10 *Base with AISI 316 stainless steel cap.*

OSCULATI



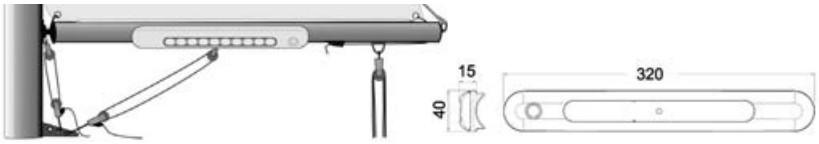


Freestanding watertight LED light fixture

IP66

LED SMD-HD high-efficiency light source. Radial base version with soft silicon seal, **ideal for round booms, roll bars and dinghies,** etc.

Code	Finish	V	W	Switch	Lumen	K	LED beam angle	No of LEDs	Lux at 50 cm	⟷ mm
13.192.20	White	12	3	Yes	450	4000	50°	10 SMD-HD	342	320x40x15 h



OSCULATI

BIMINI compact overhead LED light

IP65/67

Made of polished stainless steel, technopolymer glass. Recessless mounting.

LED

Code	Bottom	V	W	Switch	K	LED beam angle	No of LEDs	Lux	IP	⟷ mm
13.525.01	Flat	12/24	1.3	No	3000	25°	8 HD	220	67	102x33x11 (h)
13.525.02	Flat	12/24	1.3	Yes	3000	25°	8 HD	220	65	102x33x11 (h)
13.525.04	Soft curved bottom for mounting on 35/50-mm Ø A-frame tubes	12/24	1.3	Yes	3000	25°	8 HD	220	65	104x35x15 (h)

► Portable and fixed deep spot lights

Portable light madeof chromed zamak

Fitted with extension cable and terminal lighter plug. Bulb Ø 116.

Code	V	Capacity m	Bulb included
13.246.00	12	500	Iodine 50 W "H3"

Portable light, adjustable

OSCULATI

Waterproof adjustable portable light, made of 100% **black neoprene** and fitted with optic unit with **quartz halogen** light (H3 screw). It comes with extension cord, watertight switch and terminal plug.

Code	Handle	V	W	Range m	Reflector Ø
13.109.40	Anatomically designed	12	55	500	4"

OSCULATI

Utility Rubber Spot light, 100% shatterproof and watertight

Supplied with GE watertight bulb, fitted with extensible cord, length 2.5 metres. It includes watertight plug, socket and **AISI 316 stainless steel** bracket for wall-mounting installation.

Code	Version	Beam	V	W	Range m	Bulb Ø mm	Spare bulb
13.016.00	Halogen	SPOT	12	30	400	110	**14.249.01**
13.017.01	Halogen	SPOT	24	100	800	150	**14.249.04**
13.018.00	Halogen	SPOT	12	100+100	150/600	150	**13.116.00**
13.018.01	LED	SPOT+FLOOD	12/24	24	10/600	150	**13.241.03**

OSCULATI

Night Eye high-beam LED light

LED

IP66

NEW POWER

Characteristics:
- Made of white painted aluminium + ABS + stainless steel base.
- **13 x CREE** genuine high-quality **LEDs**, 50,000 hour lifetime.
- Light can be removed from the base thanks to the 2-m extension cable.
- Fitted with watertight ON-OFF switch and watertight end plug, for either external or built-in installation.

Advantages:
- **IP66** watertight
- 50,000 hour LED lifetime, as little as 7.5% performance loss after 20,000 hours.
- High power, low consumption.

Code	Version	V	LED power	Lumen	K	LED beam angle	No of LEDs	Height mm	Width mm	Depth mm
13.235.01	With base for flat mounting	12	13 W	3000	2500-3500	35°	13	215	220	160
13.235.03	With connection for pulpit	12	13 W	3000	2500-3500	35°	13	215	220	160

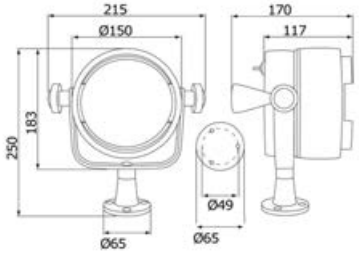
Night Eye and Night Eye LED high-beam light

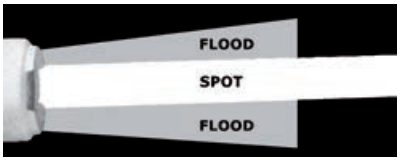
OSCULATI

Features:
- **ABS** with **anodized aluminium** bracket and **stainless steel** base.
- WAGNER optical bulb.
- Full 360° rotation and elevation joint, frictioning.
- Detachable light with 2-m extention cable.
- Special watertight switch, fitted with rubber cover, integrated into the rear dome.
- Equipped with watertight plug for recess or flat mounting.

Features:
- Weather resistant.
- Vacuum-sealed optic bulb, humidity- and salt-resistant.
- Great power.
- Light weight, low cost.

Code	Version	Beam type	V	W	Lumen	Beam		Fixing base Ø mm	Beam dimensions		Spare bulb
						FLOOD m	SPOT m		h mm	Ø mm	
13.240.00	Halogen	SPOT - FLOOD	12	100+100	-	100	400	65	250	215	**13.116.00**
13.240.01	Halogen	SPOT - FLOOD	24	100+100	-	100	400	65	250	215	**13.116.01**
13.241.01	LED	SPOT - FLOOD	12/24	24	2600	100	600	65	250	215	**13.241.03**





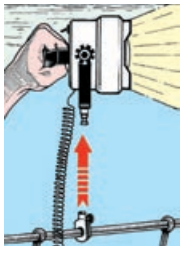
Night Eye and Night Eye LED high-beam light with pulpit coupling

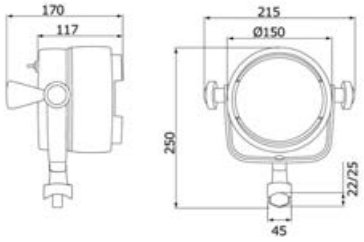
OSCULATI

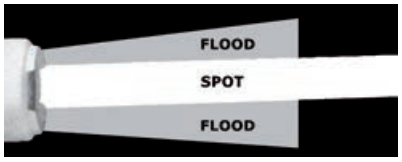
Features:
- **ABS** with **anodized aluminium** bracket and **stainless steel** base.
- WAGNER optical bulb.
- Full 360° rotation and elevation joint, frictioning.
- Detachable light with 2-m extention cable.
- Watertight switch, fitted with rubber cover, integrated into the rear dome.
- Equipped with watertight plug for recess or flat mounting.

Features:
- Weather resistant.
- Vacuum-sealed optic bulb, humidity- and salt-resistant.
- Great power.
- Light weight, low cost.

Code	Version	Beam type	V	W	Lumen	Beam		For pipes mm	Beam dimensions		Spare bulb
						FLOOD m	SPOT m		h mm	Ø mm	
13.239.00	Halogen	SPOT- FLOOD	12	100+100	-	100	400	22/25	250	215	**13.116.00** (12 V)
13.241.02	LED	SPOT- FLOOD	12/24	24	2600	100	600	22/25	250	215	**13.241.03**





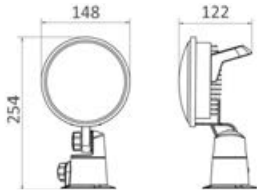


New Moonlight LED high-beam light

OSCULATI

LED

Adjustable LED high-beam light with mirror-polished stainless steel swivelling handle and joint.
Features:
- Adjustable in height and 360° rotation.
- White PMA base plate for flat mounting.
- two knobs adjust the joint and lock it to the base plate.
- watertight ON-OFF switch;
- spiral cord extensible up to 2 m and fitted with lighter plug.



Code	Body	V	W	Lumen	K	LED beam angle	No. of LEDs	⟷ mm
13.210.00	White ABS + SS inox	12/24	36	3000	6000	50°	12	148x254x122

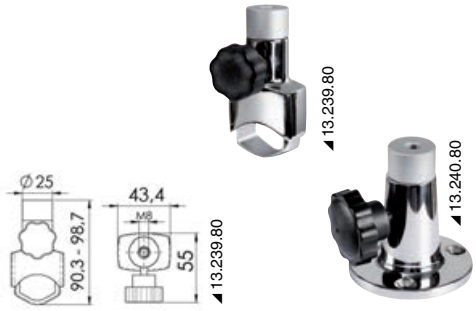
Articulating, Portable Spotlight

LED

IP66

Reinforced Nylon frame with stainless steel base. Can be easily detached from base for maximum flexibility. Extendable spiral electric cable with cigarette lighter plug. Rocker switch. Supplied with with 7 x 3W LED12/24 V LEDs.

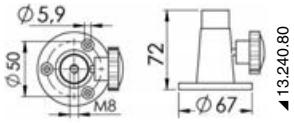
Code	V	W	Switch	Lumen	K	LED beam angle	No of LEDs
13.235.10	12/24	21	Yes	2000	5000-6500	50°	7 x 3 W



Fixing support for lights

Made of stainless steel and aluminium. The light can be removed thanks to the fixing system with plastic-grip knob.

Code	Type	Suitable for lights	Spare base for
13.239.80	For hose 22/25 Ø mm	**13.321.01; 13.321.03; 13.321.04; 13.321.05**	**13.239.00**
13.240.80	For surface	**13.321.01; 13.321.03; 13.321.04; 13.321.05**	**13.240.00**



Utility high-beam light

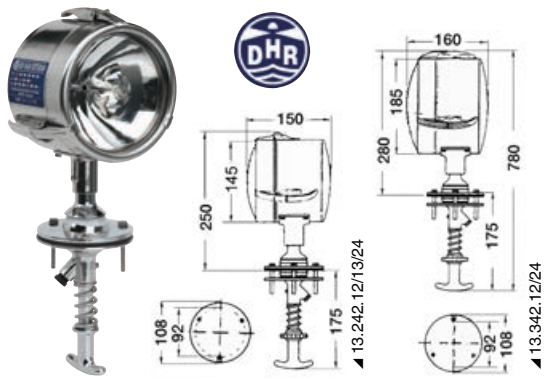
Technical features:
1) Made of white ABS with chromed brass details; 2) General Electric 4"optical bulb, 100% watertight; 3) Swivel with adjustable clutch for 360° rotation; 4) Detachable light with extension cable; 5) Built-in switch on the light dome; 6) Vacuum-sealed rustproof unbreakable GE bulb; 7) Plug with LED; 8) Lighter plug included; 9) The light can be pulled out by unscrewing the knob. Equipped with watertight plug on cable end, flush or flat mounting.

Code	Version	Capacity m	Current draw	Base	Spare bulb
13.246.01	Standard	300	30 W - 12 V	Flat mounting	**14.249.01**
13.246.02	High intensity	500	100 W - 12 V	Flat mounting	**14.249.02**
13.248.01	Standard	300	30 W - 12 V	With wall adjustable bracket	**14.249.01**
13.248.02	High intensity	500	100 W - 12 V	With wall adjustable bracket	**14.249.02**
13.247.01	Standard	300	30 W - 12 V	With bracket for windscreen	**14.249.01**
13.247.02	High intensity	500	100 W - 12 V	With bracket for windscreen	**14.249.02**

Night Eye Manual light

Fitted out with BLUE EYE 5"3/4-inch halogen **watertight bulb**, genuine STANLEY brand with **double filament** and 600-metre maximum range. It gives out short extensive light or high beam light with narrow cone. To switch on by means of under deck or under roll-bar handle. 330° rotation, ±28° elevation. Suitable for 5- to 50-mm thickness. With 50-mm thickness the handles sticks out by 34 mm (minimum stroke, dish downwards) to 90 mm (maximum stroke, dish upwards). For spare bulbs see items: 13.230.12/13.

Code	Body	V	W	Height mm	Length mm	Ø mm	Base Ø mm
13.005.12	White ABS	12	100+100	220	220	160	120
13.005.24	White ABS	24	80+60	220	220	160	120



DHR high-beam light adjustable from inside

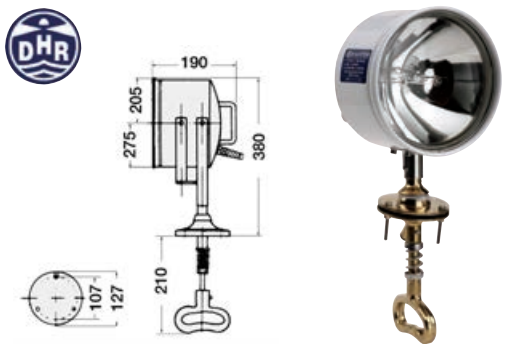
Made of **chromed brass and stainless steel**, watertight, adjustable nylon ball joint, frictioning, very small and convenient control handle; supplied with watertight bulbs "GE."

Code	V	Capacity m	Ø mm	Spare bulb
13.242.12	12	800	145	**13.116.00**
13.242.13*	12/24	100/400	145	**13.241.03**
13.242.24	24	800	145	**14.249.04**
13.342.12	12	1200	185	**14.249.05**
13.342.24	24	1200	185	**14.249.06**

* *With SPOT + FLOOD double beam 12/24 V LED bulb*

DHR high-beam light adjustable from inside, high-power professional model

Thanks to its high strength, it is also suitable for fishing vessels. Fitted with back handle for external control. Aluminium body coated with RAL 9016 white epoxy powders. Pre-wired.



Code	Wattage	Capacity m	Ø Hole mm	Height from the deck mm	Handle size mm	Watertight optical bulb	Spare optic bulb
13.210.28	250 W at 24V	over 1000	25	380	210	Ge size 8"	**13.455.20** (24 V)

► Electrical deep beam lights

NIGHT EYE EVO electrically-operated light

UV-resistant ABS case. 355° left /right and 70° up/down rotation.

Fitted with **multifunction control panel**.
- Halogen version: single station control, second station comes as an option.
- LED version: double station control.

With BLUE EYE 5"3/4 watertight double filament halogen bulb or with watertight double filament bifocal LED bulb.

◢13.234.00

Code	Version	V	W	Lumen	Beam		⟷ mm	Spare bulb	(Spare) control panel		4-m prewired extension cable	OPTIONAL wireless radio remote control *
					FLOOD m	SPOT m			1st station	2nd station		
13.240.12	Halogen	12	100+100	-	100	250	230x185x210	**13.230.14**	**13.231.12**	**13.231.30**	**13.230.05**	**13.234.00**
13.240.24	Halogen	24	100+100	-	100	250	230x185x210	**13.230.15**	**13.231.24**	**13.231.31**	**13.230.05**	**13.234.00**
13.241.12	LED	12	27	2600	100	320	230x185x210	**13.233.00**	-	**13.231.30**	**13.230.05**	**13.234.00**
13.241.24	LED	24	27	2600	100	320	230x185x210	**13.233.00**	-	**13.231.31**	**13.230.05**	**13.234.00**

* *Halogen version: wireless function available when connecting the remote control directly to the light.*

Night Eye Electric Two electrically-operated light

Fitted with 2 x Sealed Beam 127-mm Ø 55W watertight halogen bulbs. 380° rotation, 70° up/down adjustment. White UV-resistant Luran body supplied with watertight multifunction control panel. Dimensions: 205-mm height, 220-mm depth, 270x135-mm front, 120-mm Ø base.
It comes with a 4-m prewired cable that connects the light to the control panel.

Code	V	A	CD candles	Range at 1 lux	Spare bulb	Spare panel	Second station control panel	4-m pre-wired extension cable
13.232.00	12	9	200000	262 m	**13.232.02**	**13.231.12**	**13.231.30**	**13.230.05**

MEGA electrically operated light with Sealed Beam 7" watertight bulb

Give off short expanded (Flood) light and high beam (Spot) light; multifunction control panel. UV-resistant white ABS bosy, 380° rotation. 70° high/low, double filament (178 mm).

Code	V	Body	Rotation	Height mm	Depth mm	Control panel for second station	Basic spare panel	Spare bulb	4-m pre-wired extension cable
13.236.12	12	White UV-resistant ABS	380° high and low 70°	320	240	**13.231.30**	**13.231.12**	**13.236.09**	**13.230.05**
13.236.24	24	White UV-resistant ABS	380° high and low 70°	320	240	**13.231.31**	**13.231.24**	**13.236.10**	**13.230.05**

◢ 13.237.12/24

Mega-Xenon electrically operated light with XENON light source

XENON

This technology is a spin-off from luxury cars to the nautical sector. The resulting spotlight has an incredibly white and powerful light beam. UV-resistant white ABS body. 55-W xenon light source. Fitted with multifunction watertight control panel.

Code	V	Rotation	Traverse	Height mm	Depth mm	Ø mm	Second station panel	Spare panel for basis	Spare optical system	4-m extension cable
13.237.01	12	380°	70°	320	240	210	**13.237.30**	**13.237.12**	**13.237.09**	**13.230.05**
13.237.02	24	380°	70°	320	240	210	**13.237.31**	**13.237.24**	**13.237.10**	**13.230.05**

► Electric spotlights

OSCULATI

◢ 13.227.40

◢ 13.227.41

◢ 13.227.39

Electric exterior LED spotlight Type One

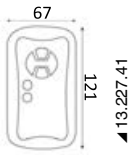
LED

UV-resistant and 100% watertight Luran body. 352° horizontal/50° vertical rotation. 23W + 23W double filament LED bulb (SPOT+FLOOD). 3 optional controls.

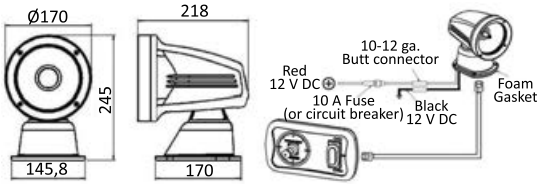
It can be connected to 3 optional controls (independent or combined) for the desired configuration:
1) Joystick-operated bridge control (to be connected to the light via a phone cable), 4.5-m cable included, 10-m cable to be purchased separately.
2) Wireless bridge control (power the panel and it will interface wireless to the light).
3) Traditional radio remote control with bracket for mounting on the bridge.

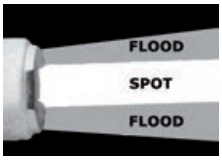
Code	V	CD candles*	W	Lumen	Range 0.25 Lux*	OPTIONAL joystick control	OPTIONAL bridge wireless control	OPTIONAL wireless radio remote control	OPTIONAL 10-m extension cable for 13.227.39	Spare bulb
13.227.02	12	133.200	23+23	2400	730	**13.227.39**	**13.227.41**	**13.227.40**	**13.225.31**	**13.225.37**

* *To be measured at the centre of the light beam.*



◢ 13.227.41





OSCULATI

◢ 13.227.40

◢ 13.227.41

◢ 13.227.39

One 24 V electric spotlight

UV-resistant and 100% watertight Luran body. 352° horizontal/50° vertical rotation. 100W + 90W double filament halogen bulb (SPOT+FLOOD). 3 optional controls.

It can be connected to 3 optional controls (independent or combined) for the desired configuration:
1) Joystick-operated bridge control (to be connected to the light via a phone cable), 4.5-m cable included, 10-m cable to be purchased separately.
2) Wireless bridge control (power the panel and it will interface wireless to the light).
3) Traditional radio remote control with bracket for mounting on the bridge.

Code	V	CD candles*	W	Lumen	Range 0.25 Lux*	OPTIONAL joystick control	OPTIONAL bridge wireless control	OPTIONAL wireless radio remote control	OPTIONAL 10-m extension cable for 13.227.39	Spare bulb
13.227.24	24	150.000	100/90	2500	775	**13.227.39**	**13.227.42**	**13.227.40**	**13.225.31**	**13.225.36**

* *To be measured at the centre of the light beam.*

Classic electric exterior spotlight

OSCULATI

Body: diecast aluminium coated in white high-resistance anti-corrosion resins. Totally watertight. 2-speed 355° horizontal rotation. 50° vertical rotation.

Version A: 100W+90W double filament halogen bulb (spot + flood).
Version B: ultra-powerful HID Xenon gas discharge bulb (35W HID).

It can be connected to 3 optional controls (independent or combined) for the desired configuration:
1)Joystick-operated bridge control (to be connected to the lighthouse via a phone cable), 4.5-m cable included, 10-m cable to be purchased separately.
2)Wireless bridge control (power the panel and it will interface wireless to the lighthouse).
3)Traditional radio remote control with bracket for mounting on the bridge.

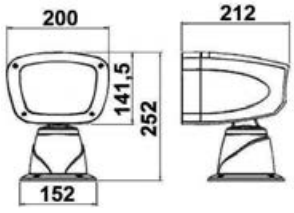
◢ 13.225.39-13.226.39

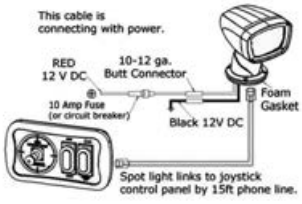
◢ 13.225.40-13.226.40

◢ 13.225.41/42-13.226.41/42

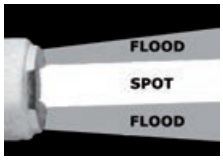
Code	Version	V	CD candles*	W	Range 0.25 Lux*	Lumen	OPTIONAL joystick control	OPTIONAL bridge wireless control	OPTIONAL wireless remote control	OPTIONAL 10-m extension cable for 13.225.39	Spare bulb
13.225.12	A	12	180.000	100+90	849	2500	**13.225.39**	**13.225.41**	**13.225.40**	**13.225.31**	**13.225.35**
13.225.24	A	24	180.000	100+90	849	2500	**13.225.39**	**13.225.42**	**13.225.40**	**13.225.31**	**13.225.36**
13.224.12	B	12	315.000	35	1122	3200	**13.226.39**	**13.226.41**	**13.226.40**	**13.225.31**	**13.224.32**
13.224.24	B	24	315.000	35	1122	3200	**13.226.39**	**13.226.42**	**13.226.40**	**13.225.31**	**13.224.32**

* *To be measured at the centre of the light beam.*





◢ 13.225.39-13.226.39



◢ 13.225.40-13.226.40

◢ 13.225.41/42-13.226.41/42

◢ 13.225.39-13.226.39

Classic electrical spot light made of stainless steel

OSCULATI

IP67

Mirror-polished stainless steel body. 100% watertight. 350° horizontal and 55° vertical rotation. Two speeds. 100W + 90W H4 halogen double-filament bulb (spot + flood).

It can be connected to 3 optional controls (independent or combined) for the desired configuration:
1) Joystick-operated bridge control (to be connected to the lighthouse via a phone cable), 4.5-m cable included, 10-m cable to be purchased separately.
2) Wireless bridge control (power the panel and it will interface wireless to the lighthouse).
3) Traditional radio remote control with bracket for mounting on the bridge.

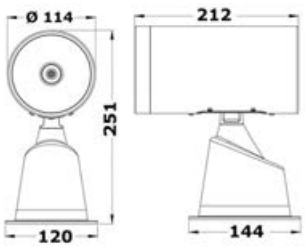
◢ 13.225.39

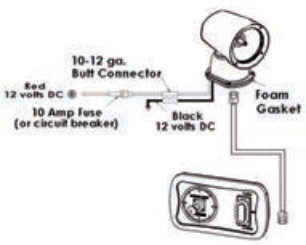
◢ 13.225.41/42

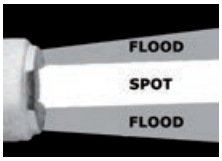
◢ 13.225.40

Code	V	CD candles*	W	Range 0.25 Lux*	OPTIONAL joystick control	OPTIONAL bridge wireless control	OPTIONAL wireless remote control	OPTIONAL 10-m extension cable for 13.225.39	Spare bulb
13.229.12	12	135.000	100/90	775	**13.225.39**	**13.225.41**	**13.225.40**	**13.225.31**	**13.225.35**
13.229.24	24	135.000	100/90	775	**13.225.39**	**13.225.42**	**13.225.40**	**13.225.31**	**13.225.36**

* *To be measured at the centre of the light beam.*







OSCULATI

◢ 13.226.39

◢ 13.226.40

◢ 13.226.41

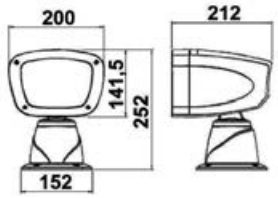
LED electric exterior spotlight

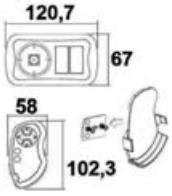
Body: diecast aluminium coated in white high-resistance and anti-corrosion resins. 100% watertight. **2**-speed 355° horizontal rotation. 50° vertical rotation. CREE high-quality LED unit. 54W consumption corresponding to a traditional 100 W bulb.

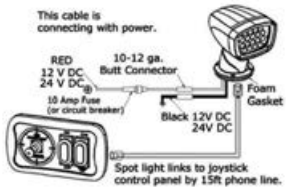
It can be connected to 3 optional controls (independent or combined) for the desired configuration:
1) Joystick-operated bridge control (to be connected to the spotlight via a phone cable), 4.5-m cable included, 10-m cable to be purchased separately.
2) Wireless bridge control (power the panel and it will interface wireless to the spotlight).
3) Traditional radio remote control with bracket for mounting on the bridge.

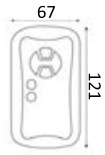
Code	V	CD candles*	W	K	Lumen	No of LEDs	LED beam angle	Range 0.25 Lux*	OPTIONAL joystick control	OPTIONAL wireless remote control	OPTIONAL bridge wireless control	OPTIONAL 10-m extension cable for 13.226.39
13.226.12	12	132.000	54	6000	6000	18	9°	726	**13.226.39**	**13.226.40**	**13.226.41**	**13.225.31**
13.226.24	24	132.000	54	6000	6000	18	9°	726	**13.226.39**	**13.226.40**	**13.226.42**	**13.225.31**

* *To be measured at the centre of the light beam.*







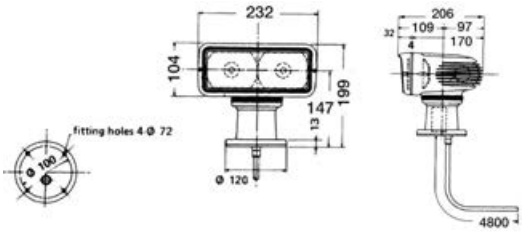


◢ 13.226.41

SANSHIN swivelling light with electric control

Fitted with two 55W **halogen** bulbs. **Light** alloy] **white** body, remote control, clamp flasher and lantern variable rotation speed. Max capacity 1200m, dimensions 200x232mm.

Code	V	Candles CD	Current draw A	Spare bulb	Spare panels	Second station panels	kg
13.343.12	12	200.000	10	**13.343.01**	**13.343.22**	**13.344.12**	6
13.343.24	24	160.000	6	**13.343.02**	**13.343.34**	**13.344.24**	6



GUEST
Quality Marine Electrical Products

GUEST remote-controlled light

Fitted with “Sealed Beam” watertight bulb having a dual beam: short and wide or high and narrow. 450° horizontal rotation and 7'° vertical rotation. It includes the control panel. Stainless steel AISI316 base plate and stainless steel AISI304 head.

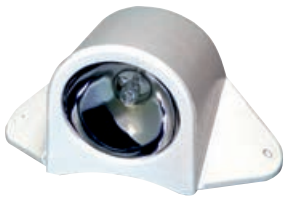
Code	Model	Power	Candles	Base mm	⟷ mm	Spare bulb
13.346.12	“Model 5”	12	72.000/30.000	140x89	241h.x115Øx177 depth	**13.346.13**

► Spot light for cockpits, decks and cross-tree

Deck light for mast

Fitted with flexible flaps adaptable to any type of mast. Halogen bulb included.

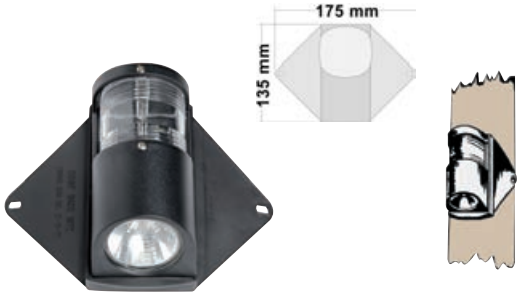
Code	Body	V	W	Spare bulb		⟷ mm
				12 V	24 V	
13.343.87	White nylon	12	20	14.453.01	14.100.24	130x72x65



Utility navigation light and deck light for hulls up to 12 m

225° navigational light (product number 11.415.03) complying with **IMCO and RINA** standards. Equipped with special 35 W 12 V halogen dichroic bulb with front glass (spare bulb 13.258.57). Made of black polycarbonate, 100% watertight, fitted with side flexible locking wings suitable for masts of **any size.** Equipped with **RINA type-approved** light 11.415.03 (spare bulb 14.300.00).

Code	Version	Body	V	W	W equivalent	Spare bulb	⟷ mm
13.243.86	Halogen dicroic spot light	Black polycarbonate	12	35	-	14.258.57 12 V	175x135
13.243.87	HD LED spot light	Black polycarbonate	12	4	48	14.258.56 LED	175x135



Navigation and deck LED light for boat up to 20 m

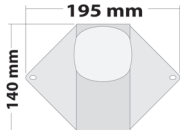
LED

225° LED navigation lights 11.060.03 + deck LED light.
Technopolymer body with flexible wings that match any kind of mast.

Code	Light	Deck light	Body	V
13.243.88	11.060.03	4x1W HD LEDs	Black technopolymer	9-33
13.243.89	11.060.03	4x1W HD LEDs	White technopolymer	9-33

◢ 13.243.88

◢ 13.243.89



Crosstree light made of stainless stee, fixed model

Stainless steel body fitted with watertight GE halogen bulb.

Code	Version	V	⟷ mm	
			G.E. watertight bulb Ø	Base
13.243.90	Fixed base	12	110	160x20
13.243.91	Fixed base	24	110	160x20
13.243.92	Articulated base	12	110	140x32
13.243.93	Articulated base	24	110	140x32

Spare light bulb 12V, 14.249.07/11
Spare light bulb 24V, 14.249.08

◢ 13.243.90/91

◢ 13.243.92/93

Sealed Beam watertight light with watertight halogen optic bulb

Ideal as mooring light or to be uses on the roll-bar of dinghies.

Code	Body	Articulated bracket in	V	W	⟷ mm
13.309.04	white ABS	Stainless steel	12	55	152x92x92
13.309.05	white ABS	Stainless steel	12	55	177x121x99

Roll-bar light, high-power vertically adjustable mode

Fitted with dual filament **watertight Sealed Beam**.

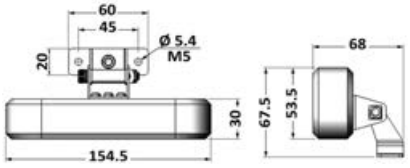
Code	Body	V	W	Lumen	LED beam angle	High-beam light + extended lights	⟷ mm	
							Overall dimensions	Mounting base
13.310.12	ABS white	12	-	287	60°	65 + 45 W	180x110x125 h	140x46

Switch see: 14.938.02/14.925.02/14.918.05/14.198.04/14.196.04/14.192.04

Free-standing adjustable LED light

Stainless steel articulated base with full rotation on both axes.

Code	Body	V	W	Lumen	K	LED beam angle	No. of LEDs	LED colour	⟷ mm
13.270.61	Polished anodized aluminium	12/24	-	1400	6000	60°	6x3 W	white	154x53



13.270.52

13.270.54

13.270.56

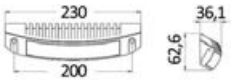
LED light with adjustable support

LED

Adjustable UV-resistant ASA support for flat, vertical or incluned mounting.

Support + spotlight	Support, only	Spotlight, only	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour	⟷ base mm
13.270.52	13.270.51	13.280.96	-	16	500	6000	10°	2	White	120x40
13.270.54	13.270.53	13.281.00	-	12	1000	6000	10°	4	White	120x40
13.270.56	13.270.55	13.281.05	-	18	1500	6000	10°	6	White	120x40

Labcraft



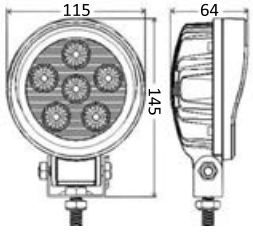
LED spotlight for gangplanks, upper sterns and fly bridges.

IP67

It can be installed above or under water.
Anodized aluminium body coated in white epoxy resin.
Installation with stainless steel screws and Duralac-type paste.

Code	V	W	Lumen	K	LED beam angle	No. of LEDs	LED colour	⟷ mm
13.269.01	12/24	12.5	> 1400	5700-6500	30°	5	White	230x63x36

OSCULATI



New **Adjustable 6x3W HD LED light for A-frame**

IP67

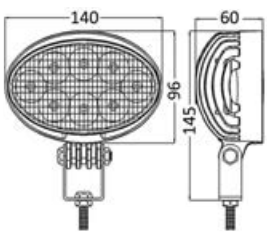
Black coated aluminium body, stainless steel bracket.

Code	V	W	K	Beam type	LED HD	⟷ mm	OPTIONAL base plate	
							flat mounting	22/25-mm Ø pulpit
13.321.01	10/30	18	6000	SPOT	6x3 W	Ø 115x64	13.240.80	13.239.80

13.239.80

13.240.80

OSCULATI



New **Adjustable 8x3W HD LED light for A-frame**

IP67

White coated aluminium body, stainless steel bracket.
Genuine BRIDGELUX (USA) LEDs.

Code	V	W	K	Beam type	LED HD	⟷ mm	OPTIONAL base plate	
							flat mounting	22/25-mm Ø pulpit
13.321.03	10/30	24	6000	SPOT	8x3 W	140x96x60	13.240.80	13.239.80

13.239.80

13.240.80

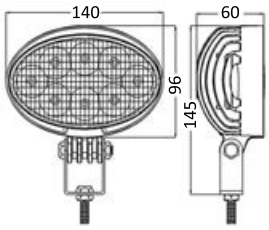
New Adjustable 8x5W HD LED light for A-frame

OSCULATI

IP67

White coated aluminium body, polished stainless steel bracket.
Genuine BRIDGELUX (USA) LEDs.

Code	V	W	K	Beam type	LED HD	⟷ mm	OPTIONAL base plate	
							flat mounting	22/25-mm Ø pulpit
13.321.04	10/30	40	6000	SPOT	8x5 W	140x96x60	**13.240.80**	**13.239.80**



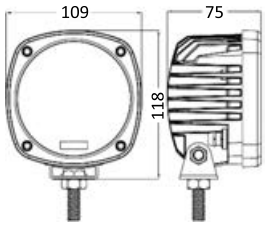
New Adjustable 5x10W HD LED light for A-frame

OSCULATI

IP67

White coated aluminium body, polished stainless steel bracket.
Genuine CREE (USA) LEDs.

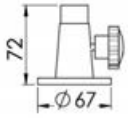
Code	V	W	K	Beam type	LED HD	⟷ mm	OPTIONAL base plate	
							flat mounting	22/25-mm Ø pulpit
13.321.05	10/30	50	6000	SPOT	5x10 W	109x116x75	**13.240.80**	**13.239.80**

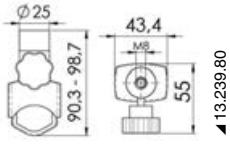


Fixing support for lights

Made of stainless steel and aluminium. The light can be removed thanks to the fixing system with plastic-grip knob.

Code	Type	Suitable for lights	Spare base for
13.239.80	For hose 22/25 Ø mm	**13.321.01; 13.321.03; 13.321.04; 13.321.05**	**13.239.00**
13.240.80	For surface	**13.321.01; 13.321.03; 13.321.04; 13.321.05**	**13.240.00**



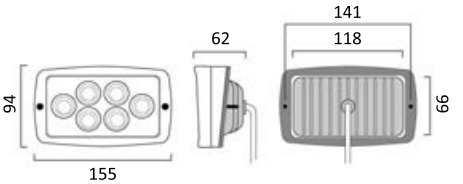


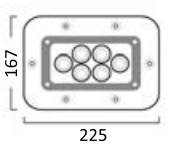
Stern LED lights

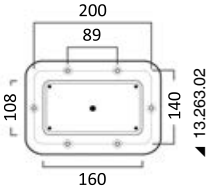
IP66/IP67 LED

White polycarbonate body.

Code	Version	V	HD LED	Candles (centre)	LED beam angle	Lumen	K	⟷ mm		Protection degree
								outside	inside	
13.263.01	Semi-recess	9-64	6x3 W	1200	30°	450	5000-6500	155x94	118x66	IP67
13.263.02	Flush recess	9-64	6x3 W	1200	30°	450	5000-6500	225x167	160x108	IP66







► Lights for topsides, gangplanks and below the waterline

Pair of LED docking lights

IP65

LED

2-mode docking lights: 20°-angle, 320 mA HD LED bow light + 85°-angle 80 mA side light. The lights are wired separately. Recessless mounting. Polished AISI 316 SS body.

Code	Description	V	Lumen	K	LED beam angle	LED	⟷ mm
13.653.00	Docking lights	12	280/125	6000	20° + 85°	320+80 mA	90.8x66.2x20

attwood

ATTWOOD bow LED light

LED

Polished stainless steel body. Totally watertight. 120° light beam. High-power LED equivalent to 50W halogen bulb. **No recess needed.** Sold in pairs.

Code	V	W	Lumen	LED beam angle	⟷ mm
13.652.01	12	5 each	750	120°	114x71x30

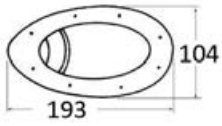
OSCULATI

Compact fairing light pair with LED bulb

AISI 316

Made of mirror-polished AISI 316 stainless steel. Front protection lens.

Code		LED included		Cone	Spare LED
13.254.13		12 V	4 W	45° FMW	**14.258.56**
13.254.14	New	24 V	3.5 W	45° FMW	**14.258.59**



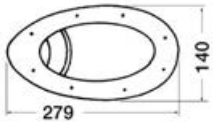
OSCULATI

Fairing light pair, built-in model fitted with Sealed Beam 4" watertight bulb.

AISI 316

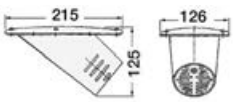
Made of **mirror polished AISI 316 stainless steel**.

Code	Bulb included	Cone	Spare bulb
13.258.12	2 x 12V 50W	70°x30°	**14.249.11**
13.258.24	2 x 24V 50W	40°x5°	**14.249.08**



Fairing light pair, compact built-in model

13.255.12 Powered by halogen light H3, 55 watt, 12 V. Horizontal beam 21°, includes polycarbonate lens.



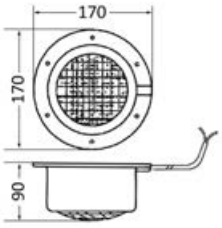
Transom light made by white ABS, 100% watertight

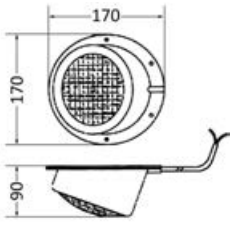
OSCULATI

Fitted with Sealed Beam bulb 14.249.07/08. To be mounted under the platform to illuminate the water surface; supplied with 1.20 m power cable.

Code	Version	Type	Base Ø mm	Size mm
13.256.12	inclined	12 V - 35 W	170	90
13.256.24	inclined	24 V - 50 W	170	90
13.257.12	straight	12 V - 35 W	170	90
13.257.24	straight	24 V - 50 W	170	90

◢ 13.257.12-24





◢ 13.256.12-24

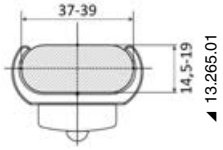
Underwater LED light for ladders

OSCULATI

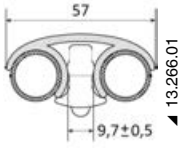
PATENT

Little interlocking light for telescopic ladders. Automatic switching when getting in touch with water. 100-h life sealed battery. Sold in 2-pc display package.
Available for both Standard step ladders (38 mm) and for Extra-large step ladders (57 mm and up).
Pressure mounting on the highest step, they take no room at all.

Code	Version	Light colour	Life h	Package
13.265.01	Light for Standard 38-mm step ladder	Blue	100	2 pcs
13.266.01	Light for Extra-large 57-mm double step ladder	Blue	100	2 pcs



◢ 13.265.01



◢ 13.266.01

◢ 13.265.01

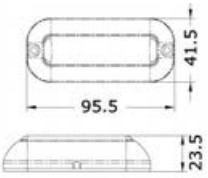
◢ 13.266.01

Underwater LED light

IP68

Mirror-polished AISI316 stainless steel body. **Attention**: it shall be installed under water due to the high temperature generated during operation.

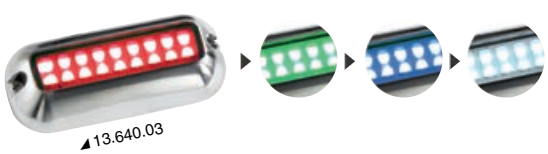
Code	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour
13.640.01	10/30	3.6	343	5700	108°	27	White
13.640.02	10/30	3.6	74	5700	108°	27	Blue
13.640.03*	12	1.2	95/67/10/12**	2800-3200	120°	18	- RGBW



◢ 13.640.01

* *Press repeatedly the ON-OFF switch to select the colour of the LED light (white/green/blue/red).*

** *Lumen white 95, green 67, blue 10, red 12*



◢ 13.640.03

◢ 13.640.02

OSCULATI

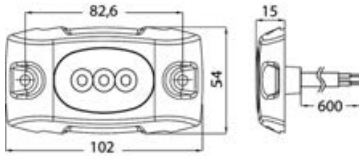
Underwater LED light for hull/transom

Underwater installation, only. Made of technopolymer and fitted with high-efficiency LED. A single 13-mm Ø bore is needed for through deck power cable.

◢ 13.276.10/12

◢ 13.276.01/02

Code	Finish	V	W	Lumen	K	LED beam angle	No of LEDs	LED colour	⟷ mm
13.276.01	Technopolymer	12/24	10	998	5700	30°	3	White	102x54x15
13.276.02	Technopolymer	12/24	10	142	-	30°	3	Blue	102x54x15
13.276.10	Technopolymer + polished AISI316 SS body	12/24	10	998	5700	30°	3	White	102x54x15
13.276.12	Technopolymer + polished AISI316 SS body	12/24	10	142	-	30°	3	Blue	102x54x15



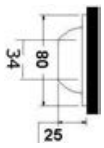
OSCULATI

Underwater LED light for gangplanks / upper stern / bottom

Made of mirror-polished AISI 316 stainless steel, it is equipped with **high-power Led lights**. It can be installed both **above** or **under** water since it is totally watertight.

Code	V	Lumen	K	LED beam angle	LED	LED Colour
13.272.00	12/24	600	6000	25°	2x5 W	White
13.272.01	12/24	90	-	25°	2x5 W	Blue
13.272.02*	12/24	600/90/90/90	-	25°	4 W	- RGBW

* *Press the ON-OFF button repeatedly to select the LED colour LED (white - blue - red - green)*



RGBW

OSCULATI

Underwater LED light for gangplanks, upper sterns and bottoms

IP68 **AISI 316**

Body made of polished AISI 317L stainless steel equipped with CREE LED lights. It can be mounted both **above** and **under** water.

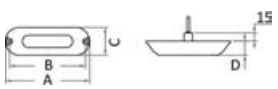
◢ 13.280.98

◢ 13.281.00

◢ 13.281.01-02

◢ 13.281.06

Code	V	Lumen	K	Lux at 1 m	LED beam angle	LED	LED colour	⟷ A mm	B mm	C mm	D mm
13.280.96	12/24	500	6000	6700	10°	2x3 W	White	107	92	50	25
13.280.98	12/24	150	-	6700	10°	2x3 W	Blue	107	92	50	25
13.281.00	12/24	1000	6000	13400	10°	4x3 W	White	152	137	50	25
13.281.01	12/24	400	-	13400	10°	4x3 W	Blue	152	137	50	25
13.281.02	12/24	400	-	13400	10°	4x3 W	- RGBW	152	137	50	25
13.281.05	12/24	1500	6000	20000	10°	6x3 W	White	195	180	50	25
13.281.06	12/24	450	-	20000	10°	6x3 W	Blue	195	180	50	25

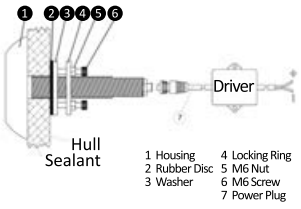


RGBW

Underwater light with stud for hull / transom / platform

Made of mirror-polished AISI 316 stainless steel, it is equipped with 6 high-power Led lights and parabolic system to increase light intensity. Top quality product for underwater use only.

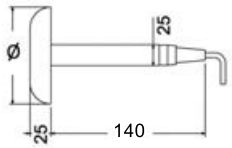
Code	Version	V	A	Lumen	K	Lux at 1 m	LED beam angle	LEDs	LED colour	Ø mm
13.294.00	With stud	12/24	1.5	1500	6000	26000	5°	6x3 W	White	114
13.295.00	With stud	12/24	1.5	400	-	-	5°	6x3 W	Blue	114
13.298.00	With stud	12/24	3.0	3000	6000	45000	10°	12x3 W	White	140
13.299.00	With stud	12/24	2.8	800	-	45000	10°	12x3 W	Blue	140



OSCULATI

◢ 13.294.00: 13.295.00

◢ 13.288.00; 13.299.00



Underwater light with screws for hull / transom / platform

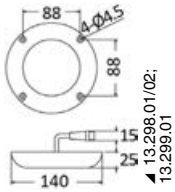
Made of mirror-polished AISI 316 stainless steel, it is equipped with 6 high-power Led lights and parabolic system to increase light intensity. Top quality product for underwater use only.

Code	Version	V	A	Lumen	K	Lux at 1 m	LED beam angle	LED	LED colour	Ø mm
13.294.01	With screws	12/24	1.5	1500	6000	26000	5°	6x3 W	White	114
13.294.02	With screws	12/24	1.5	-	6000	26000	5°	6x3 W	RGBW	114
13.295.01	With screws	12/24	1.5	400	-	-	5°	6x3 W	Blue	114
13.298.01	With screws	12/24	3.0	3000	6000	52000	5°	12x3 W	White	140
13.298.02	With screws	12/24	3.0	-	6000	52000	5°	12x3 W	RGBW	140
13.299.01	With screws	12/24	1.5	3000	-	60000	5°	12x3 W	Blue	140

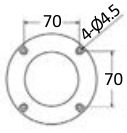
OSCULATI

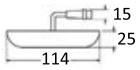
◢ 13.294.01/02; 13.295.01

◢ 13.298.01/02; 13.299.01



◢ 13.298.01/02; 13.299.01



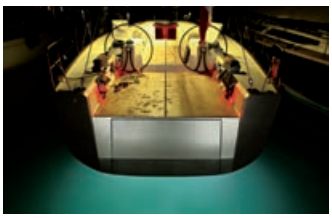


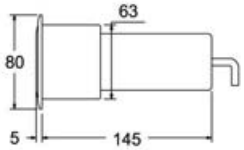
◢ 13.294.01/02; 13.295.01

Underwater LED light

It operates with 1 high-power 10W LED. Technical data: anodized aluminium body; 5-mm overhang; 12/24 V; 1x10W LED; 63-mm Ø thru hull hole. Installation above or below the waterline.

Code	Lumen	K	LED beam angle	LED	LED colour	LED life h
13.270.10	900	6000	40°	1x10 W	White	50.000
13.270.01	140	-	20°	1x10 W	Blue	50.000
13.270.02	-	-	20°	1x10 W	RGBW	50.000





► Sockets, plugs and cables

Standard power plug for IP44 connection to the dock

IP44

CE

Made in accordance with EC standards; **polycarbonate, UV ray stabilized** body, input fitted with wire sleeve and built-in cable stopper; suitable for connecting onto the dock.

Code	Version	Plug
14.335.01	3 wire, male	16 A
14.335.02	3 wire, male	32 A
14.336.01	3 wire, female with cover	16 A
14.336.02	3 wire, female with cover	32 A

Standard power plug for connection to the dock - IP67

IP67

CE

Made in accordance with CE standards. **UV-stabilized polycarbonate** body, input fitted with wire sleeve and built-in cable stopper.
Suitable for connection to the dock. Watertight up to 1 metre depth in water.

Code	Version	Plug
14.335.11	3 wire, male	16 A
14.335.12	3 wire, male	32 A
14.335.03	5 wire, male	63 A
14.336.11	3 wire, female with cover	16 A
14.336.12	3 wire, female with cover	32 A
14.336.03	5 wire, female	63 A

Twin socket-plug for connection to the dock power supply

Equipped with 1 plug + 2 16 A sockets. IP67 watertight.

Code	Capacity	volt
14.337.16	16A	220

Watertight cover for electrical connections

Made of shock-resistant plastic, it makes your electrical connections watertight. Fitted with padlock.

Code	For sockets A	⟷ mm	Padlock holder
14.340.00	16	Ø 95 x 365	Yes

Watertight quayside converter for Schuko sockets

It turns quayside sockets (16A female) into civil sockets (Schuko with 3 small or 3 big poles).
Resistant to the rain, IP44 protection degree, rear cable patented closure system.

Code	Description	Capacity	V
14.338.00	Watertight quayside converter for Schuko sockets	16 A	200 - 250 V

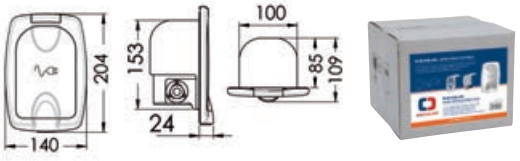
R-Evolve fixed articulating plug

REGISTERED DESIGN / DISEGNO DEPOSITATO

Watertight housing made from UV-resistant ASA, in compliance with IED 60309 according to ISO 13297 regulations.
The plug articulates outwards when in use making it extremely accessible and allowing a neat, recessed installation for the housing.
Cover opens at 180°, AISI 316 mirror-polished stainless steel front panel.

Fixed plug	Removable socket	Electric cord	A
14.321.16	**14.336.01**	**14.592.01**	16

OSCULATI



Socket + plug series , watertight, 30 A

Socket with **UV resistant Luran** body, back cable protection cover, **silver plated brass** contacts. **Polycarbonate plug + Moplen**, fitted with cable locking system and **silver plated brass** contacts. Plug protection **cap** made of **PVC** with quick rotation ring made of **UV resistant Luran**. Amper 30.

Code	Model	Material	Color	Closing system
14.331.00	IP 56 watertight socket	abs	white	snap type
14.331.05	IP X7 watertight socket	abs	white	snap type
14.332.00	plug	polycarbonate + moplen	blue	snap type
14.333.00*	cover	pvc	blue	snap type

* *Equipped with additional ring nut for coupling with MARINCO sockets.*

OSCULATI

AISI316 stainless steel watertight sockets

Socket with **UV resistant Luran** body, cable protection rear cover, **silver-plated brass** contacts. Voltage 220/110. Max amperage 30 A.

Code	Model	Colour
14.329.00	IP X7 watertight socket	White
14.330.00	IP 56 watertight socket	White

New Edge 30A power socket

Socket with UV-resistant Luran body, back cable protection cover, silver-plated brass contacts. Polycarbonate+Moplen plug with cable locking system and silver-plated brass contacts. Voltage: 220/110. Amperage: 30A max.

Code	Model	Material	Colour	Closure
14.331.10	IP 56 watertight socket	ABS	White	Snap
14.331.11	IP 56 watertight socket	Chromed ABS	Chromed	Snap

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Socket + plug series , watertight, 50 A

Socket: **mirror polished AISI 316 stainless steel** + polycarbonate + nickel-plated brass contacts and back cable protection. **Plug**: polycarbonate + silver-plated brass contacts.
Cap: plug cap made of soft electric blue PVC. Voltage: 220/110. Max 50A.

Code	Model	Material	Colour	Closure
14.325.00	Socket	SS 316	Stainless steel	Screw type
14.326.00	Plug	Polycarbonate + moplen	Blue	-
14.327.00	Cap	PVC	Blue	-

OSCULATI

Shore power cable and plug with built-in LED light

New watertight plug equipped with co-pressed cable.

Cable color		Length m	A	Cable outer Ø mm	Cable section mm²
Blue*	White				
14.334.10	**14.334.11**	10	30	15	3x6
14.334.15	**14.334.16**	15	30	15	3x6
14.334.50	**14.334.51**	10	16	11.2	3x2.5
14.334.55	**14.334.56**	15	16	11.2	3x2.5

Equipped with additional ring nut for coupling with Marinco cables

* *Equipped with AC LED/warning light*

Sea Water Resistant tripolar/quadripolar power cable

Made in accordance with power cords EU standards; fitted with **high conductivity copper cable with two sheaths**, the first one provides protection against accidental bangs, the second provides protection against sea-water and corrosive agents.

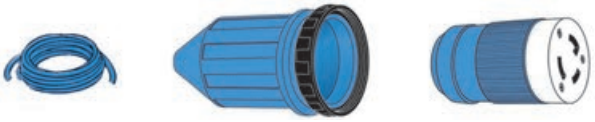
Code	Flow	Cable section mm²	Cable outside Ø mm	Roll m	For sockets and plugs	Sheath color
14.592.01	16 A / 220 V	3x2.5	11	50	14.331.00; 14.332.00; 14.330.00; 14.329.00; 14.331.05	Blue
14.592.02	16 A / 220 V	3x2.5	11	50	14.332.00; 14.305.00	White
14.593.00	32 A / 220 V	3x6	14	50	14.301.00; 14.302.00; 14.305.00; 14.305.10; 14.303.00; 14.331.05	Yellow
14.593.01	32 A / 220 V	3x6	14	50	14.331.00; 14.332.00; 14.330.00; 14.329.00; 14.331.05	Blue
14.593.02	32 A / 220 V	3x6	14	50	14.332.00; 14.305.00	White
14.596.00	50 A / 125-220 V	4x10	19	50	14.487.01; 14.587.01; 14.587.04	Yellow
14.595.00	63 A / 220 V	3x10	19	50	14.487.03; 14.587.03; 14.636.10; 14.634.30	Yellow
14.595.01	63 A / 220 V	3x10	19	50	14.325.00; 14.326.00	Blue
14.595.02	63 A / 220 V	3x10	19	50	14.326.00; 14.587.03; 14.587.06	White

OSCULATI

Pre-mounted electric cable

Plug + cap with pre-mounted cable and insulation cap, color **blue**.

Code	Length m	A	Ø outer cable mm	Cable	Ø cable mm²	Plug + cover
14.334.20	10	50	19	14.595.01	3x10	14.326.00 + 14.327.00
14.334.25	15	50	19	14.595.01	3x10	14.326.00 + 14.327.00

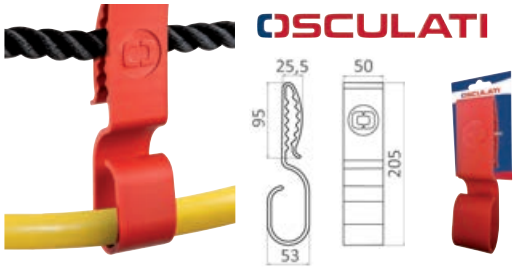


OSCULATI

New Cable Hook

REGISTERED DESIGN / DISEGNO DEPOSITATO

Cable hook that lets through the power cord and the dock-to-boat water hose.
Its design allows for quick fastening to the mooring line.
Very sturdy, UV- and sea water-resistant.



Code	For lines Ø mm	⟷ mm
06.319.00	14-30	50x205x53

► MARINCO sockets, plugs and shore power cables

MARINCO power sockets and plugs

100% **watertight**; made of thermopolymer with high resistant glass, nickel plated brass contacts.

MARINCO
Quality Marine Electrical Products

Code	Type	Description	A	V	
14.302.00	3-WIRE BIPOLAR MONOPHASE	AISI 316 stainless steel socket, male contacts	16	230	-
14.301.00	3-WIRE BIPOLAR MONOPHASE	Male socket with rear protection for “Valox” resin cables	16	230	-
14.303.00	3-WIRE BIPOLAR MONOPHASE	Male contact socket, round front with rear protection for “Valox” resin cables	16	230	-
14.305.00	3-WIRE BIPOLAR MONOPHASE	Plug to couple with sockets 14.301/302/303.00, female contacts	16	230	-
14.103.00	3-WIRE BIPOLAR MONOPHASE	Yellow watetight PVC cap for 14.305.00	-	-	-
14.305.10	3-WIRE BIPOLAR MONOPHASE	Dock side plug, male contact	16	230	-
14.102.00	3-WIRE BIPOLAR MONOPHASE	Yellow watetight PVC cap for 14.305.10	-	-	-
14.487.03	3-WIRE BIPOLAR MONOPHASE	AISI 316 stainless steel socket, male contacts	32	230	(50 A at 110 V)
14.634.30	3-WIRE BIPOLAR MONOPHASE	Male “Valox” resin socket	32	230	(50 A at 110 V)
14.587.03	3-WIRE BIPOLAR MONOPHASE	Plug to couple with socket 14.487.03, female contacts	32	230	(50 A at 110 V)
14.587.04	3-WIRE BIPOLAR MONOPHASE	Yellow watetight PVC cap for 14.587.03	-	-	-
14.636.10	3-WIRE BIPOLAR MONOPHASE	Dock side plug, male	32	230	(50 A at 125 V)
14.771.70	3-WIRE BIPOLAR MONOPHASE	Yellow watetight PVC cap for 14.636.10	-	-	-
14.487.01	4-WIRE THREE-POLE	AISI 316 stainless steel socket, male contacts	50	125/250	-
14.587.01	4-WIRE THREE-POLE	Plug to couple with socket 14.487.01, female contacts	50	125/250	-
14.587.04	4-WIRE THREE-POLE	Cap for plug 14.587.01	-	-	-
14.487.06	3-WIRE HEAVY DUTY BIPOLAR MONOPHASE	AISI 316 stainless steel socket, male contacts	63	230	-
14.587.06	3-WIRE HEAVY DUTY BIPOLAR MONOPHASE	Plug to couple with socket 14.487.06, female contacts	63	230	-
14.587.04	3-WIRE HEAVY DUTY BIPOLAR MONOPHASE	Yellow watetight PVC cap for 14.587.06	-	-	-
14.487.09	4-WIRE HEAVY DUTY THREE-PHASE	AISI 316 stainless steel socket, male contacts	63	230	-
14.587.09	4-WIRE HEAVY DUTY THREE-PHASE	Plug to couple with socket 14.487.09, female contacts	63	230	-
14.587.04	4-WIRE HEAVY DUTY THREE-PHASE	Yellow watetight PVC cap for 14.587.09	-	-	-
14.103.01	4-WIRE HEAVY DUTY THREE-PHASE	Watertight cap to seal Marinco plugs. For plugs 14.305.00 + 14.103.00. 16-30 Amp	-	-	-
14.103.02	4-WIRE HEAVY DUTY THREE-PHASE	Watertight cap to seal Marinco plugs. For plugs 14.587.03-06 + 14.587.04. 32-63 Amp	-	-	-

MARINCO cable with plugs

Special cable “Sea Water Resistant”, preassembled with Marinco plugs.

Code	Length m	A	Cable colour	Assembled with			Cable section
				cable	Marinco plug	cover	
14.210.30	10	16 A 230 V	Yellow	**14.593.00**	**14.305.00**	**14.103.00**	3x6
14.211.30	15	16 A 230 V	Yellow	**14.593.00**	**14.305.00**	**14.103.00**	3x6
14.211.50	15	32 A 230 V	Yellow	**14.595.00**	**14.587.03**	**14.587.04**	3x10
14.211.60*	16.5	50A 125-220V	Yellow	**14.596.00**	**14.587.01**	**14.587.04**	3x10

* *Quadrupole cable: 3 poles, 4 wires.*

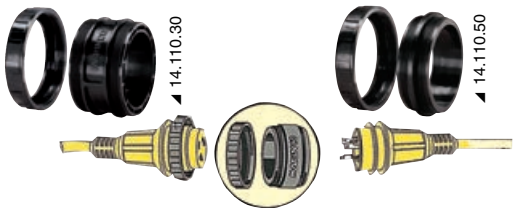
◢ Kit 14.210.30 / 14.211.30

◢ Kit 14.211.50/ 60

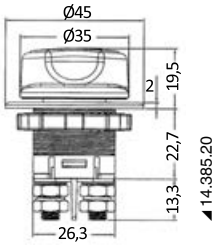
Joint collector madeof Lexan to screw plugs

It is required for connecting cables.

Code	To connect plugs	To connect cables
14.110.30	14.305.10; 14.102.00 with 14.305.00; 14.103.00	14.210.30; 14.211.30 with Pin Tail 16/30 A
14.110.50	14.636.10; 14.771.70 with 14.587.03; 14.587.04	14.211.50 with Pin Tail 30/50 A



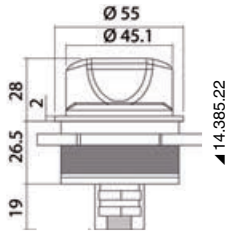
► Battery switches



Compact battery switch

Supercompact model for mounting on instrument panel or bulkhead.
Positions: OFF-ON-OUT to pull out the antitheft knob.

Code	Max capacity A		Flange Ø mm	Neck Ø mm	Net neck mm	Ø Terminal mm
	continuous	intermittent				
14.385.20	100	150	45	26	11	6
14.385.22	300	450	55	49	15	10



OSCULATI

Easy battery switch

Made of black technopolymer with flange fixing. Equipped with watertight cap. Copper contacts

Code	Max capacity A	Flange Ø mm	Studs mm	Spare key
14.385.15	100	58	9.4	**14.385.17**

OSCULATI

Marine battery switch

CE

Made of **black polycarbonate**, flange mounting. Fitted with watertight rubber cap and splash-proof key. Model with nickel plated brass key pin, very sturdy. **CE type-tested** in compliance with the 2013/53/EU (ISO 8846 MARINE - EN 28846) directive.
Compulsory device to be mounted on a positive cable.

Code	Maximun capacity		Flange Ø mm	Spare key	Pins mm
	for 5 sec	in continuous			
14.386.03	1000 A	100 A	60	**14.386.33**	10

OSCULATI

Heavy Duty marine battery switch

CE

Made of **black polycarbonate**, flange fixing; fitted with watertight PVC cap and **nickel-plated brass** splash-proof key. **CE type-tested** in compliance with directive 2013/53/EU (ISO 8846 MARINE - EN 28846). Compulsory device for mounting on a positive cable.

Code	Max capacity		Flange Ø mm	Spare key	Pins mm
	for 5 sec	continuous			
14.385.00	2500 A	280 A	66	**14.385.33**	10

OSCULATI

Battery switch with stainless steel body

CE

Made of **black polycarbonate**, flange fixing; extra version with AISI 316 stainless steel body, collar mounting with double threaded screw nut, very sturdy; equipped with watertight PVC cap and splash-proof nickel-plated brass key.
CE type-tested in compliance with directive 94/25/CE (EN ISO 28846).
Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Max capacity		Neck Ø mm	Flange Ø mm	Spare key	Pins mm
	for 5 sec.	in continuous				
14.386.02	2500 A	280 A	34	66	**14.386.34**	10

OSCULATI

Heavy Duty MKII marine battery switch

CE

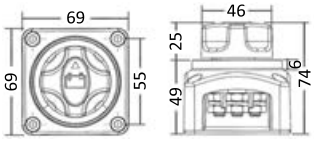
Made of black polycarbonate and fixed on a flange. Fitted with PVC watertight cap and **double key**. **CE type-tested** in compliance with the 2013/53/EU (ISO 8846 MARINE - EN 28846) directive. Compulsory device to mount on positive cable. **Two keys included.**

Code	Max capacity		Flange Ø mm	Spare key	Pins mm
	for 5 seconds	continuous			
14.385.10	2500 A	280 A	66	**14.385.34**	10

Countertop battery switch with removable key

Cable outlet on 4 sides.

Code	Max capacity 50V DC			Ø pins mm	⟷ mm
	for 30 sec.	continuous	intermittent		
14.923.11	1000 A	300 A	500 A	10	69x69x74 h



Battery switch, flat-mounting model without recess fitting

CE **Watertight**, **"CE" type-tested (EN ISO 28846); removable** clip-on connecting key.

Code	Max capacity		Base mm	Projection mm	Pins mm
	for 5 sec.	in continuous			
14.383.00	2200 A	250 A	70x70	75	10

Heavy Duty marine battery switch with removable key

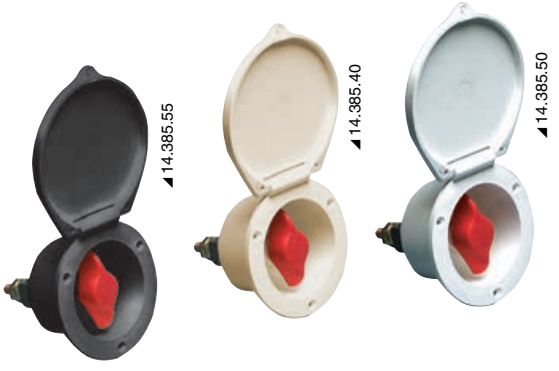
CE Fitted with splash-proof key with **nickel-plated brass** pin, sealing cap with back fairing. **"CE" type-tested in compliance with Directive 94/25/CE;** polycarbonate body and copper contacts. Possibility of built-in bulkhead.

Code	Max capacity		Flange Ø mm	Front projection mm	Bulkhead thickness mm	Pins mm
	for 5 sec.	in continuous				
14.382.01	2500 A	290 A	72	45/60	4/19	10

Heavy Duty marine battery switch, built-in model

CE Fitted with removable **nickel-plated brass** key; **"CE" type-tested** in compliance with directive 94/25/CE. Obligatory for mounting on a positive cable, under ISO 10133 standards.

Code	Max capacity for 5 seconds	Max capacity in continuous	Flange Ø mm	Inside overhang, clamps included mm	Colour	Pins mm	Spare key
14.385.50	2500 A	280 A	105	99	White	10	**14.385.51**
14.385.40	2500 A	280 A	105	99	Cream RAL 9001	10	**14.385.51**
14.385.55	2500 A	280 A	105	99	Blacks	10	**14.385.51**

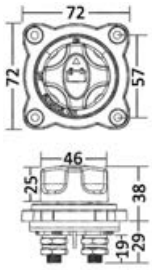


Battery switch for semi-recessed mounting

IP68

Made of polycarbonate, mounting on flange.
ON-OFF-OUT position that allows to pull out the knob for anti-theft purposes.

Code	Max capacity 50V DC			Flange mm	Pins Ø mm
	for 30 sec.	continuous	intermittent		
14.385.25	1000 A	300 A	500 A	72x72	10

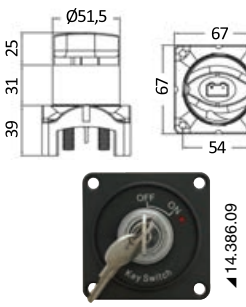


Battery switch with remote electric control

This battery switch can be mounted near the battery thus reducing the length and diameter of copper cables. Equipped with emergency manual control and LED indicators for functioning.
The remote control is operated by an ON-OFF switch.

Code	V	Max capacity		⟷ mm	OPTIONAL switch
		intermittent	in continuous		
14.386.08	12/24	455 A	275 A	67x67x95h	**14.386.09**

14.386.09 *OPTIONAL ON-OFF 12V switch with double key and LED warning light. Dimensions: 69x69x45 mm.*



Bipolar battery switch

Fitted with 4 rear contacts; removable key, silver plated copper contacts; bipolar battery isolators are essential for boats with metal hulls.

Code	Capacity		Base mm	Recess mm	Recess door protrusion mm	Pins mm
	intermittent for 3 sec	in continuous				
14.386.05	2000 A	120 A	90x90	55x55	55	10

Battery switch

Made of **brass and bakelite**, fitted with **brass and silver-plated cooper** contacts. **High capacity** industrial model (350 A 24 v - 2500 A (3 seconds). Specially suited for large boats with 24 V systems.

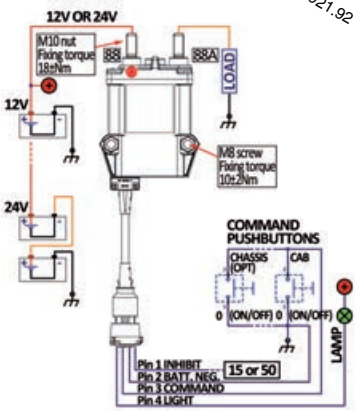
Code	Pins mm
14.386.04	12

LITTELFUSE® dual-pole battery switch with key

Fitted with 4 rear terminals. With fixed or removable handle and key.
M10 silver-plated copper terminals. High performance product.
This battery disconnect switch is ideal on vessels with metal hull. Special lever to lock/unlock.
Key ingress protection: IP65.

Code	V	Capacity		Base mm	Recess mm	Recess-fit overhang mm	Pins mm
		intermittent 10 sec	continuous				
14.386.20	12/24	1000 A	250 A	140.3x74.7	83.8x83.8	61.5	10
14.386.21	12/24	1500 A	500 A	140.3x74.7	83.8x83.8	61.5	10

◢ 14.921.92



◢ 14.921.93

LVD LITTELFUSE® general automatic disconnect switch

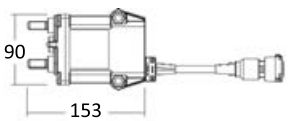
IP67

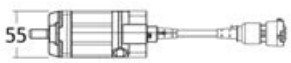
Bistable with mechanical position and zero consumption (minimum current draw only on ON/OFF control). **Settable disconnecting voltage**.
Switch remote control enabling to always open/close the contact.
The disconnect switch detects the supply voltage and, when this latter drops under the set threshold for over at least one minute, it automatically disconnects the battery.
Fitted with 'inhibit' line - if connected and positive - to disconnect the automatic connection (typically connected under key 15 or, of course, 50).

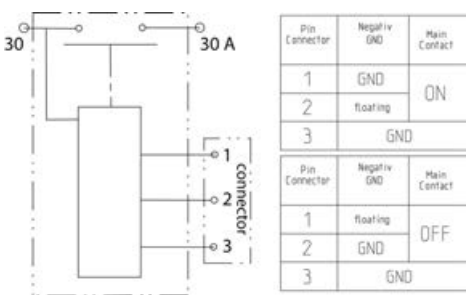
Code	V	Max capacity			IP	Male mating connector kit	Emergency switch*
		5 sec	30 sec.	continuous			
14.921.92	12/24	2000 A	800 A	250 A	67	**14.921.93**	**14.921.94**

* *To be mounted in the engine housing. It disconnects the battery in case of emergency.*

◢ 14.921.94







Pin Connector	Negativ GND	Main Contact
1	GND	ON
2	floating	
3	GND	

Pin Connector	Negativ GND	Main Contact
1	floating	OFF
2	GND	
3	GND	

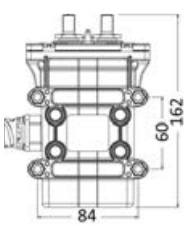
LITTELFUSE® remote electric battery switch/circuit breaker

IP67

Bistable/magnetic current switch, it absorbs current only when switched from (OFF) to (ON) and vice versa via a remote switch.
Additional outlet to connect a warning light or an audible alarm.
M10 nickel-plated brass terminal hardware. Silver-plated copper terminals.

Code	V	Max capacity		Connection	⟷ mm	Outlet connector OPTIONAL
		for 5 sec.	continuous			
14.389.01	12/24	2000 A	250 A	+/-	162x84	**14.383.50**

◢ 14.383.50



FlexMod LITTELFUSE® - Isolator controller

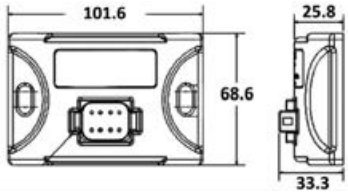
IP67

Electronic unit designed to preserve the battery charge. The unit is autoranging to automatically sense the voltage of the system (12 or 24V).
It preserves the main battery (starting) power by isolating the auxiliary battery when the system voltage drops below a critical level and it automatically reconnects the battery banks when voltage rises to the correct level.
Compatible with electronically controlled alternators, it eliminates false battery warnings created by diode isolators and protects devices from overcurrent.

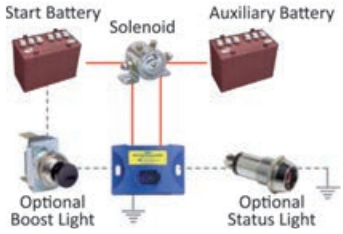
◢ 14.921.31

Codice	Operating voltage	Disconnect voltage	Connect voltage	Overcurrent protection	IP	OPTIONAL (Deutsch) connector
14.921.31	9/32 V	12.7/25.4 V	13.2/26.4 V	15 A*	67	**14.921.32**

* *It disconnects load after 1 sec of excessive current.*

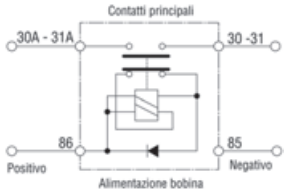


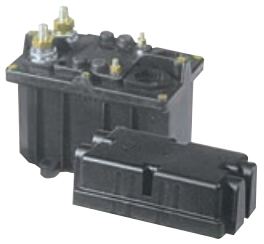
◢ 14.921.32



Automatic unipolar battery switch (general power remote control switch with separate coil feed)

Connected under starter key, if power needs to be cut automatically (in this way the ignition key needs additional tripping) or simply **with an ON-OFF switch** independent from the key, which can also be hidden and used as antitheft device. IP65 watertight protection, silver plated copper contacts.
Positive or negative disconnection.



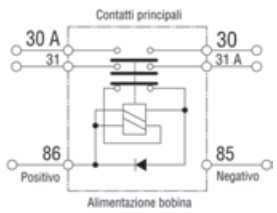


◢ 14.384.12/24

Code	V	Max load		Pins mm	⟷ mm	kg
		for 5 sec.	continuous			
14.384.12	12	2500 A	250 A	10	144x95x98	1.116
14.384.24	24	2500 A	250 A	10	144x95x98	1.116

Automatic bipolar battery switch (general power remote control switch with separate coil feed)

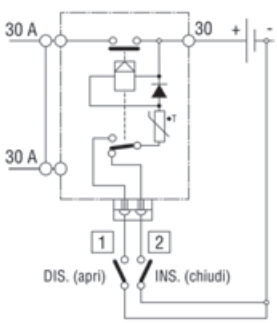
For 2 battery banks. Connected under starter key, if power needs to be cut automatically (in this way the ignition key needs additional tripping) or simply **with an ON-OFF switch** independent from the key, which can also be hidden and used as antitheft device.
IP65 watertight protection, silver plated copper contacts. Positive or negative disconnection.



Code	V	Max load		Pins mm	⟷ mm	kg
		for 5 seconds	continuous			
14.384.32	12	2500 A	300 A	10	144x95x98	1.4
14.384.34	24	2500 A	300 A	10	144x95x98	1.4

Battery switch / battery isolator switch

Disconnects the positive battery terminal by means of a separate ON-OFF switch.
Stays open or closed without consuming energy until the next current flow; it can be connected to a led light that indicates the on/off status and can be installed in series to control multiple battery units simultaneously. Supplied with emergency manual control; IP56 protection, M 12 silver plated copper contacts.



Code	V	Max load		Pins mm	⟷ mm	OPTION outlet connector
		for 5 seconds	continuous			
14.383.12	12	2500 A	250 A	12	164x95x98	**14.383.50**
14.383.24	24	2500 A	250 A	12	164x95x98	**14.383.50**

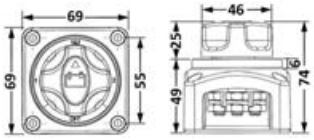
► Battery switches and battery isolators

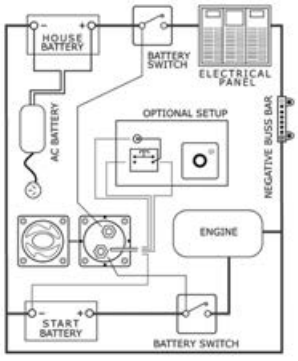
OSCULATI

Battery switch

Switch positions: Batt. 1 - Batt. 2 - Batt. 1+2 - OFF. 12/24 V voltage.

Code	Max capacity 50V DC			Ø pins mm	⟷ mm
	for 30 sec.	continuous	intermittent		
14.923.12	1000 A	100 A	300 A	10	69x69x74 h

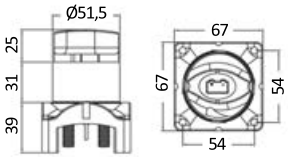




Dual operation voltage-sensible switch and emergency parallel

This Voltage Sensitive Switch (VSS) automatically senses the voltage of two connected batteries or battery banks and provides optimal, efficient charging of the second bank.
The VSS allows for two independent battery banks to be combined or isolated based on the presence of a charging source (such as an engine alternator or battery charger).
Once the charging source is activated, the VSS lets the first battery of the main bank (engine battery) recharge; when this latter reaches 13.2V, the switch opens the circuit and lets the second battery (service battery) recharge.
The emergency parallel function can be operated manually by means of a knob or through an On/Off button on the dashboard.
Recess or surface mounting.

◢ 14.386.09



Code	V	Max capacity		⟷ mm
		intermittent	in continuous	
14.386.10	12/24	455 A	275 A	67x67x95

14.386.09 *OPTIONAL ON-OFF 12V switch with double key and LED warning light. Dimensions: 69x69x45 mm.*

Selecta New battery switch

IP65 CE

◢ 14.921.00

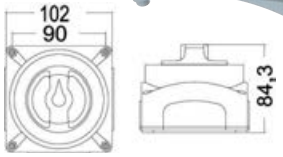
◢ 14.921.02

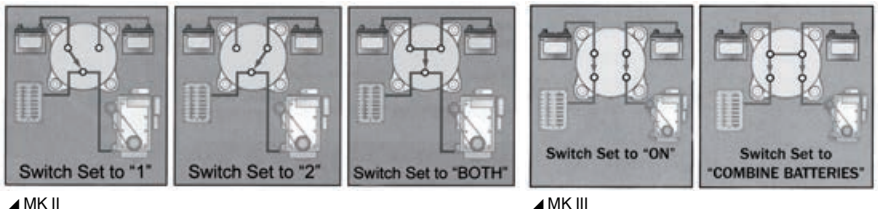
Can use batteries alternatively or simultaneously; fitted with **copper** contacts, **stainless steel** springs, **PC/PTB/Fiberglass** flame resistant casing, protective cable base; extra ring-nut for flush mounting (Ø size 95 mm); type approved by ISO 8846 MARINE EN 28846.
A) **"MK II" version.** selectable options: bank/battery "1", bank/battery "2" or 1+2 simultaneously. Includes device that disconnects the alternator power automatically if is under the "OFF" position without switching off the engines; type-approval no. DIP006907SP.
B) **Version MK III.** connects the engine start-up batteries and the service batteries simultaneously in position "1", keeping the start-up batteries separately with motors, thus minimizing the risk of an accidental discharge if case of an emergency. The two circuits are connected **among them** under position "2", type-approval no. DIP006907SP.

Code	Model	Max power		Functions	Pick up	Base mm	Height mm	Pins mm
		intermittent	in continuous					
14.921.00	MK II	450 A	300 A	1 - Battery 1; 2 - battery 2; 3 - parallel	1500°	104x104	80	10
14.921.02	MK III	450 A	300 A	1 - Connect services and motors with separate circuits 2 - Parallel between services and motors	1500°	104x104	80	10

◢ 14.921.00

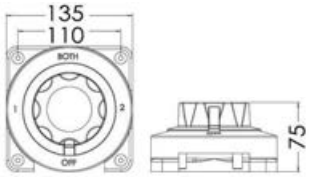
◢ Flush mounting ring





◢ MK II ◢ MK III

Selecta battery switch



CE It allows to use one or both batteries or to disconnect them; fitted with safety clip-on lock rotator. CE type-tested in compliance with 94/25/CE standard.

Code	Capacity in continuous	Pins mm	⟷ mm
14.920.00	175 A at 12/24V	10	135x135x75H

Heavy Duty battery switch, high-power model

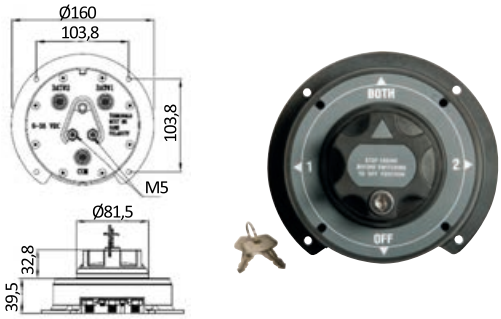
CE **Copper** contacts, **stainless steel** springs; **polycarbonate** body; fitted with automatic power interruption on the alternator if the battery isolator activates before turning off the engine. Specially suited for diesel engines which, due to large starters, require heavy amperage; "CE" type-tested in compliance with 94/25/CE standards.

Code	Capacity max		With terminals Ø mm	Version	Pins mm	⟷ mm
	intermittent	in continuous				
14.905.00	850 A	380 A	12	Universal 12/24 V	12	140x140x85

Switch for Heavy Duty batteries

Made with the best materials, fit with lock and additional contacts for the automatic disconnection of curreent to the alternator in case the battery switch activates before the engines are switched off.

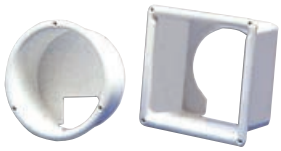
Code	V	Max capacity		⟷ mm
		intermittent	in continuous	
14.904.00	12/24	500	310 A	160x160x70



Built-in compartments

Built-in compartments designed for flush mounting of battery isolators and battery switches

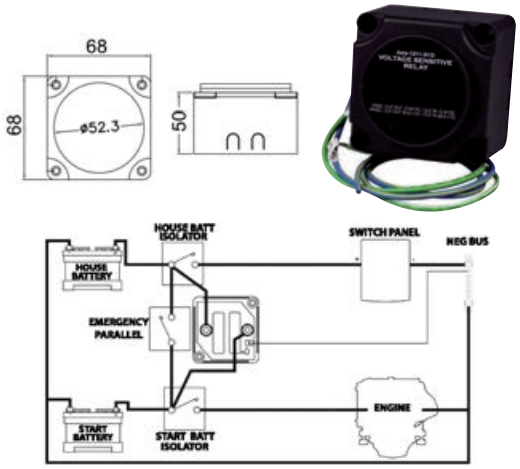
Code	Material	battery isolator compartment	Hole version	Ø Hole mm	Recess depth mm
14.561.02	white ABS	-	circular	143	70
14.561.03	white ABS	14.905.00; 14.920.00	square	149x149	90



Voltage Sensitive Relay

This relay charges two batteries at the same time with a single alternator. When the engine is switched on, the Voltage Sensitive Relay stays open until the starting battery reaches 13.7/27 V and then closes the contact and charges the 2 batteries at the same time.
When the engine stops and the voltage drops below 12.8/25.2 V, the Voltage Sensitive Relay opens the contact and keeps the two batteries separated thus preventing the wrong battery from draining and avoiding current peaks that damage the onboard electronic equipment when starting the engine.
It protects the starter battery from draining due to the use of onboard services.
No voltage drop, zero consumption in stand by phase.
Easy to install without modifying the alternator cabling. 12/24 V automatic selection.

Code	V	A	Description	⟷ mm
14.921.90	12/24	140	Voltage-sensible relay	68x68x50

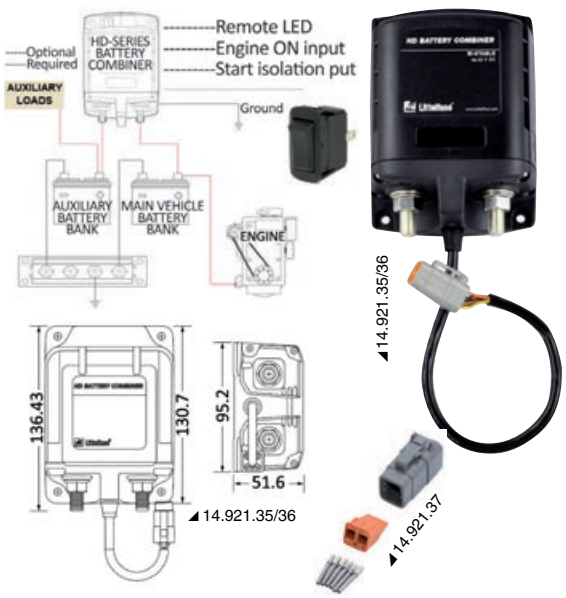


LITTELFUSE® bistable automatic smart latching relay

IP67

It connects the battery banks (starting + services) when alternator/battery charger are working and it disconnects the banks when the charging system stops.
It stands power peaks (i.e. powerful inverters).
In case of emergency battery banks can be connected with a simple switch control.
It complies with ISO 8846/SAEJ1171.
Deutsch 6-pole DTM male connector.

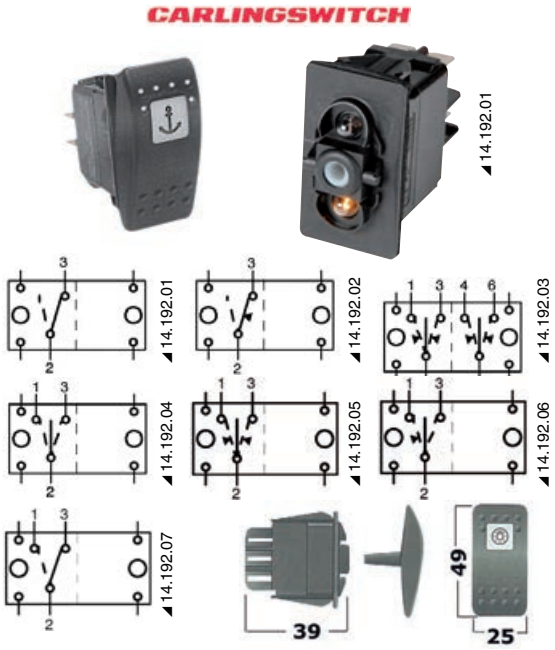
Code	V	Max capacity		Control current	Relay contact position				
		for 10 sec	continuous		closes (30 sec) with voltage	closes (90 sec) with voltage	opens (10 sec) with voltage	opens (30 sec) with voltage	opens circuit
14.921.35	12	1500 A	300 A	40 mA*/6 A**	13.5 V	13.1 V	12.3 V	2.7 V	16.5 V***
14.921.36	24	1500 A	300 A	40 mA*/3 A**	27.0 V	26.0 V	24.0 V	25.5 V	32.4 V***



14.921.37 *Deutsch 6-pole DTM female connector (DTM 06-65).*

* *At rest*
** *In activation phase, 50 m/sec.*
*** *System protection*

► Switches and circuit breakers



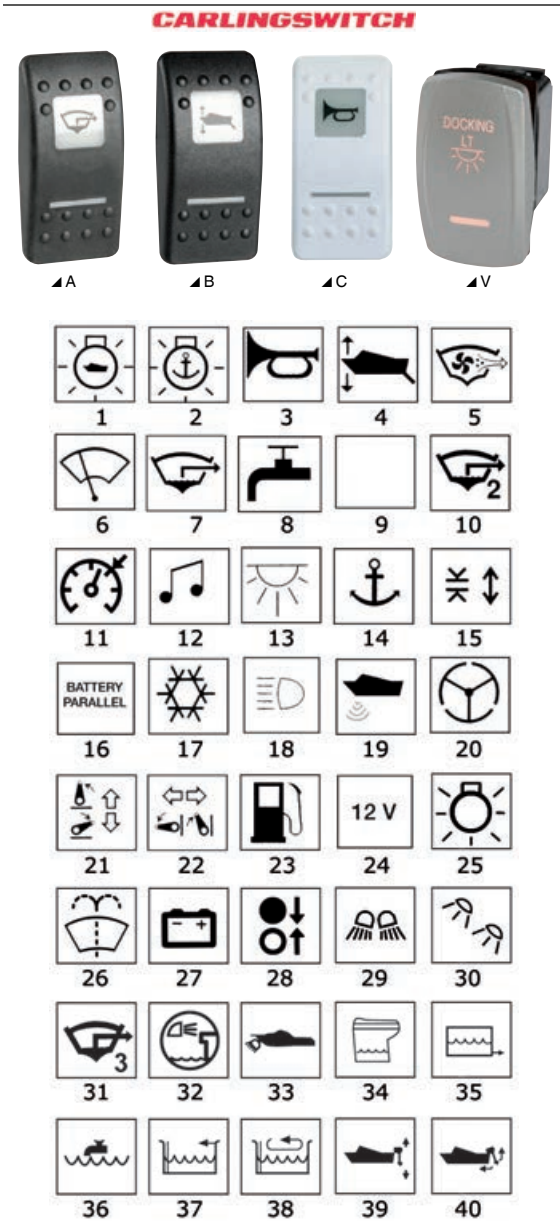
CARLING SWITCH Contura II switch

Water-resistant IP 56; installation requires a rectangular hole size 21.5x36.8 mm; maximum capacity of **20 A** at 12volt, **15 A** at 24 volt. Fitted with **two lights**: one illuminates the user symbol wherein it's connected; **always on** (so it can be located when it's dark), the other light illuminates a special gap under the symbol **which switches on**, i.e. **when the use is activated, slot to be ordered separately**.

Type	White bulbs		Red LED		Recommended for	No of terminals
	12 V	24 V	12 V	24 V		
ON-OFF	**14.192.01**	**14.192.21**	**14.192.51**	**14.192.61**	-	4
(ON)-OFF*	**14.192.02**	**14.192.22**	**14.192.52**	**14.192.62**	Horns, toilets	4
(ON)-OFF-(ON)*	**14.192.03**	**14.192.23**	**14.192.53**	**14.192.63**	Trim tabs, hydraulic pumps, windlasses	8 bipolar
ON-OFF-ON	**14.192.04**	**14.192.24**	**14.192.54**	**14.192.64**	Bilge pumps (automatic/manual), navigation lights, masthead lights	6
(ON)-OFF-(ON)	**14.192.05**	**14.192.25**	**14.192.55**	**14.192.65**	Hydraulic gangplanks, windlasses, trim tabs	4
ON-OFF-(ON)	**14.192.06**	**14.192.26**	**14.192.56**	**14.192.66**	Bilge pumps (automatic/manual)	4
ON-ON	**14.192.07**	**14.192.27**	**14.192.57**	**14.192.67**	Switch to operate the same light from 2 different places	-

(ON) means with spring return.

* *"ON momentary" version light only on the use*



Toggles with lighted symbols

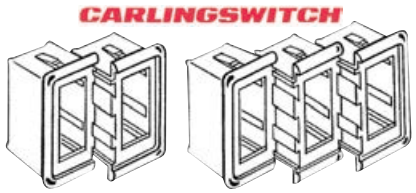
Fitted with an extra symbol that illuminates and gives contact.

Description	Type V Nickel-metallized polycarbonate Contura	Type C White polycarbonate hard surface	Type B Black polycarbonate hard surface	Type A Semi-rigid anti-skid polycarbonate surface covered with black polyurethane
01 - Navigational lights	**14.194.01**	**14.193.61**	**14.193.31**	**14.193.01**
02 - Anchor lights	**14.194.02**	**14.193.62**	**14.193.32**	**14.193.02**
03 - Horn	**14.194.03**	**14.193.63**	**14.193.33**	**14.193.03**
04 - Flap	**14.194.04**	**14.193.64**	**14.193.34**	**14.193.04**
05 - Extractor fan	**14.194.05**	**14.193.65**	**14.193.35**	**14.193.05**
06 - Windshield wiper	**14.194.06**	**14.193.66**	**14.193.36**	**14.193.06**
07 - Bilge pump	**14.194.07**	**14.193.67**	**14.193.37**	**14.193.07**
08 - Autoclave	**14.194.08**	-	**14.193.38**	**14.193.08**
09 - Neutral, no symbol	**14.194.09**	**14.193.69**	**14.193.39**	**14.193.09**
10 - Bilge pump "2"	**14.194.10**	-	**14.193.40**	**14.193.10**
11 - Panel lights	**14.194.11**	**14.193.71**	**14.193.41**	**14.193.11**
12 - Stereo	-	-	**14.193.42**	**14.193.12**
13 - Cockpit lights - cabin lights	**14.194.13**	**14.193.73**	**14.193.43**	**14.193.13**
14 - Anchor windlass control	**14.194.14**	**14.193.74**	**14.193.44**	**14.193.14**
15 - Hatch opening	**14.194.15**	-	**14.193.45**	**14.193.15**
16 - Battery parallel	-	-	**14.193.46**	**14.193.16**
17 - Fridge	-	-	**14.193.47**	**14.193.17**
18 - High beam light	**14.194.18**	**14.193.78**	**14.193.48**	**14.193.18**
19 - Depth sounder	-	-	**14.193.49**	**14.193.19**
20 - Automatic pilot	-	-	-	**14.193.20**
21 - Gangplank up/down	-	-	**14.193.51**	**14.193.21**
22 - Gangplank out	-	-	**14.193.52**	**14.193.22**
23 - Petrol pump or electro-valve	-	-	-	**14.193.23**
24 - 12 volt	-	-	**14.193.54**	**14.193.24**
25 - Cabin lights	**14.194.25**	-	**14.193.55**	**14.193.25**
26 - Windscreen spray	-	-	**14.193.56**	**14.193.26**
27 - Batteries	-	-	**14.193.57**	**14.193.27**
28 - Open/close Hard Top	**14.194.28**	-	**14.193.58**	**14.193.28**
29 - Gangplank lights/cockpit lights	**14.194.29**	-	**14.193.59**	**14.193.29**
30 - Deck/crosstree courtesy lights	-	-	**14.193.60**	**14.193.30**
31 - Bilge pump "3"	-	-	**14.193.90**	**14.193.80**
32 - Mooring lights	-	-	**14.193.91**	**14.193.81**
33 - Bow lights	-	-	**14.193.92**	**14.193.82**
34 - Toilet lights	-	-	**14.193.93**	**14.193.83**
35 - Macerator	-	-	**14.193.94**	**14.193.84**
36 - Salt water pump	-	-	**14.193.95**	**14.193.85**
37 - Ventilating pump	-	-	**14.193.96**	**14.193.86**
38 - Recirculating pump	-	-	**14.193.97**	**14.193.87**
39 - Raise F.B.	-	-	**14.193.98**	**14.193.88**
40 - Trim F.B.	-	-	**14.193.99**	**14.193.89**

CARLING SWITCH bezel for switches

Plastic bezels designed to create a single panel with Carling switches and similar.

Version	white	black
Frame for just one switch	14.197.63	14.197.03
Central insert	14.197.61	14.197.01
terminal insert right/left	14.197.62	14.197.02
frame closing plug	14.197.64	14.197.04



CARLING SWITCH Contura rocker switch

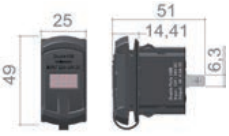
IP56 water-proof; installation requires a 21X37 mm hole; maximum capacity of 20 Amp at 12 volt; models fitted with **light symbol**.

Code	Operation	V	No. of terminals	Rocker
14.194.40	OFF-ON	12	2	INCLUDED
14.194.50	OFF-(ON) for horn, etc.	12	2	INCLUDED
14.195.50	(ON)-OFF-(ON) for flaps, etc.	12	7	INCLUDED

Dual USB port current plug

It matches any CARLINGSWITCH, Marina R and Marina TOP switch.
It fits all types of frame 14.197.xx.

Code	Description	V	A	⟷ mm
14.195.60	Dual USB plug	12/24	2.1 + 1.0	49x25x51 (depth)
14.195.62 New	Standard USB plug + micro	12/24	2.4 + 3	49x25x40 (depth)
14.195.61	Dual USB plug + 5/30 V voltmeter	12/24	2.1 + 2.1	49x25x51 (depth)



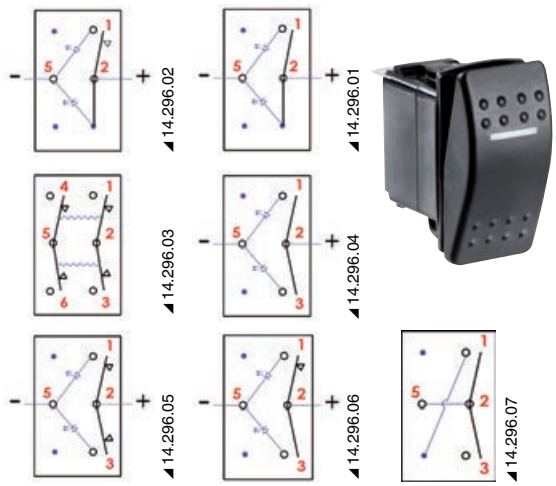
Marina R toggle switch, watertight

IP67

Installation requires a 21.5x36.8-mm rectangular bore. 20 A / 12 V max power. Rigid toggle and LED warning light that lights up the toggle to activate the contact.

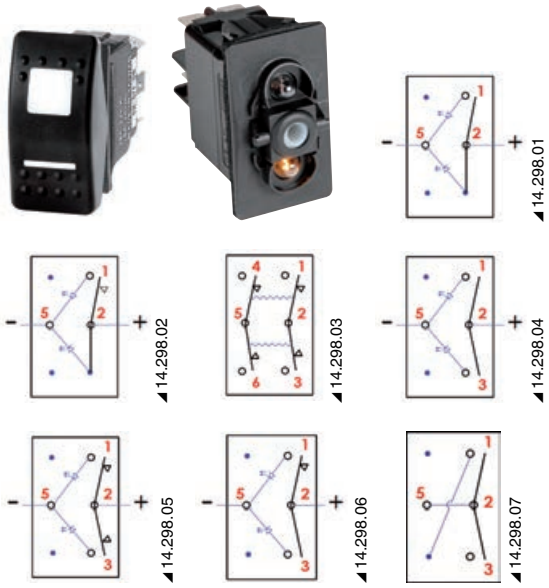
Code	Function	V	N. terminals	Toggle
14.296.01	OFF-ON	12/24	3	INCLUDED
14.296.02	OFF-(ON)	12/24	3	INCLUDED
14.296.03*	(ON)-OFF-(ON) for: flaps, trim tabs, gangways, etc.	12/24	6	INCLUDED
14.296.04	ON-OFF-ON for 2 separate circuits (navigation and masthead lights or to switch the bilge pump from manual to automatic mode)	12/24	4	INCLUDED
14.296.05	(ON)-OFF-(ON) for: hydraulic gangways, anchor winches, flaps	12/24	4	INCLUDED
14.296.06	ON-OFF-(ON) for bilge pumps (automatic and manual mode)	12/24	4	INCLUDED
14.296.07	ON^{1} - OFF - ON^{1+2}; ON^{1} = circuit 1 ON^{1+2} = circuit 1+2 Navigation lights for hulls up to 12 m: ON^{1} = white 360° ON^{1+2} = white 360°+red/green 112°,5	12/24	4	INCLUDED

(ON) with spring return.
* *No LEDs*



Spare rocker covers for Marina R switches type 14.198.XX sold up to February 2021

Description	Rigid polycarbonate surface	Semi-rigid polycarbonate anti-skid surface covered with black polyurethane
01 - Navigation lights	14.199.40	14.199.01
03 - Horn	14.199.42	14.199.03
04 - Flap	14.199.43	14.199.04
05 - Aspirator	14.199.44	14.199.05
06 - Windscreen wiper	14.199.45	14.199.06
07 - Bilge pump	14.199.46	14.199.07
08 - Autoclave	14.199.47	14.199.08
10 - Bilge pump "2"	14.199.49	14.199.10
11 - Panel lights	14.199.50	14.199.11
12 - Stereo	14.199.51	14.199.12
13 - Cockpit lights - cabin lights	14.199.52	14.199.13
14 - Windlass anchor control	14.199.53	14.199.14
15 - Hatch opening	14.199.54	14.199.15
16 - Battery parallel	14.199.55	14.199.16
17 - Fridge	14.199.56	14.199.17
18 - High beam light	14.199.57	14.199.18
19 - Depth sounder	14.199.58	14.199.19
20 - Automatic pilot	14.199.59	14.199.20
21 - Rise/low gangplanks	14.199.60	14.199.21
22 - Gangplank extension	14.199.61	14.199.22
23 - Petrol pump and electro-valve	14.199.62	14.199.23



New Marina R II dual LED rocker switch, IP56 watertight

IP56 watertight, Marina series. 21.5x36.8-mm rectangular bore required for installation.
Maximum capacity **20 A** at 12 V and **12 A** at 24 V. Supplied with **double red LED**: one for the symbol, which is **always on**, the second for a special slit under the symbol that **switches on** when thesymbol indicator **is activated**. Rocker switch to order separately.

12/24V switch	Version	Type	Recommended for	Terminals
14.298.01	No toggle	ON-OFF	-	3
14.298.02	No toggle	(ON)-OFF	Horns, toilet unit controls	3
14.298.03	No toggle, no LED	(ON)-OFF-(ON)	Hydraulic gangplanks, windlasses, flaps, trims	6 (2 poles)
14.298.04	No toggle	ON-OFF-ON	Bilge pumps (automatic/manual), navigation + mast head lights	4
14.298.05	No toggle	(ON)-OFF-(ON)	Hydraulic gangplanks, windlasses, flaps	4
14.298.06	No toggle	ON-OFF-(ON)	Bilge pumps (automatic/manual)	4
14.298.07	No toggle	ON^{1} - OFF - ON^{1+2}	ON^{1} = circuit 1 ON^{1+2} = circuit 1+2 Navigation lights on hulls up to 12 m: ON^{1} = white 360° ON^{1+2} = white 360°+ red/green 112°.5	4

(ON) means with spring return.

New Rocker switches with backlit icons for Marina R II switches

Additional warning light that lights up when connected.
Semi-rigid anti-slip surface, polycarbonate coated in black polyurethane.

Description	Polycarbonate hard surface	Anti-slip semi-rigid surface - Polycarbonate coated in black polyurethane
01 - Navigation lights	**14.299.40**	**14.299.01**
02 - Mooring lights	**14.299.41**	**14.299.02**
03 - Horn	**14.299.42**	**14.299.03**
04 - Flap	**14.299.43**	**14.299.04**
05 - Blower	**14.299.44**	**14.299.05**
06 - Wiper	**14.299.45**	**14.299.06**
07 - Bilge pump	**14.299.46**	**14.299.07**
08 - Fresh water pump	**14.299.47**	**14.299.08**
09 - Neutral, no symbols	**14.299.48**	**14.299.09**
10 - Bilge pump 2	**14.299.49**	**14.299.10**
11 - Panel lights	**14.299.50**	**14.299.11**
12 - Stereo	**14.299.51**	**14.299.12**
13 - Cockpit lights, cabin lights	**14.299.52**	**14.299.13**
14 - Anchor winch control	**14.299.53**	**14.299.14**
15 - Hatch opening	**14.299.54**	**14.299.15**
16 - Battery parallel	**14.299.55**	**14.299.16**
17 - Refrigerator	**14.299.56**	**14.299.17**
18 - High beam light	**14.299.57**	**14.299.18**
25 - Cabin lights	**14.299.65**	**14.299.25**
29 - Gangplank lights	**14.299.69**	**14.299.29**
30 - Deck courtesy lights	**14.299.70**	**14.299.30**

Rocker switches are not compatible with switches of Marina R Series sold until February 2021.

Marina TOP watertight double LED toggle switches

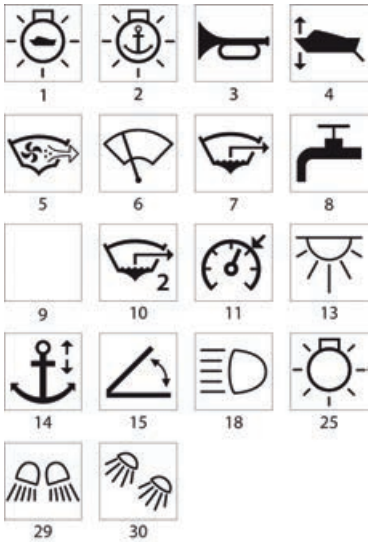
IP56 watertight. A 21.5x36.8-mm rectangular hole is required for installation.
20 A/12 V and 10 A/24 V max capacity.
Fitted with double LED, one for the use symbol (**always on**) and one for the switch activation.

12/24 V switch with no toggle	Version	Type	Use	No of terminals
14.212.01	Unipolar	ON - OFF	Any	3
14.212.02	Unipolar	(ON) - OFF	Horn, WC control, etc.	3
14.212.04	Unipolar	ON - OFF - ON	2 separate circuits, navigation lights, bilge pumps, etc.	4
14.212.05	Unipolar	(ON) - OFF - (ON)	Hydraulic gangways, flaps, electric ladders and tops, winch	4
14.212.06	Unipolar	(ON) - OFF - ON	(Automatic/manual) bilge pumps	4
14.212.03	Bipolar	(ON) - OFF - (ON)	Hydraulic gangways, flaps, electric tops, winch	7
14.212.07	Bipolar	ON^{1} - OFF - ON^{1+2}	ON^{1} = circuit 1 ON^{1+2} = circuit 1+2 Navigation lights for hulls up to 12 m: ON^{1} = white 360° ON^{1+2} = white 360°+red/green 112.5°	7

Laser-cut symbols. OVAL toggles for Marina TOP switches with symbol lights

With additional light when the switch is on.

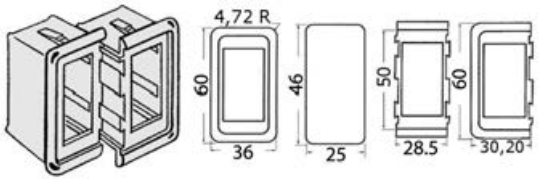
Code	Description
14.213.21	01 - Navigation lights
14.213.22	02 - Mooring lights
14.213.23	03 - Horn
14.213.24	04 - Flap
14.213.25	05 - Extractor fan
14.213.26	06 - Windscreen wiper
14.213.27	07 - Bilge pump
14.213.28	08 - Autoclave
14.213.29	09 - Neutral without symbols
14.213.30	10 - Bilge pump "2"
14.213.31	11 - Control panel lights
14.213.33	13 - Cockpit/cabin lights
14.213.34	14 - Anchor winch control
14.213.35	15 - Port opening
14.213.38	18 - Light
14.213.45	25 - Cabin lights
14.213.49	29 - Gangplank/underwater/cross-tree lights
14.213.50	30 - Deck/courtesy lights



Bezel for plastic switches

Plastic bezels suitable for making single panels for switches 14.296../14.198../14.298..

Code	Description
14.197.21	central insert
14.197.22	Frame for just one switch
14.197.23	Locking frame plug
14.197.31	terminal insert dx/sx

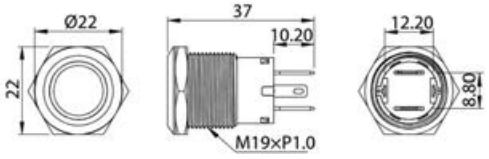


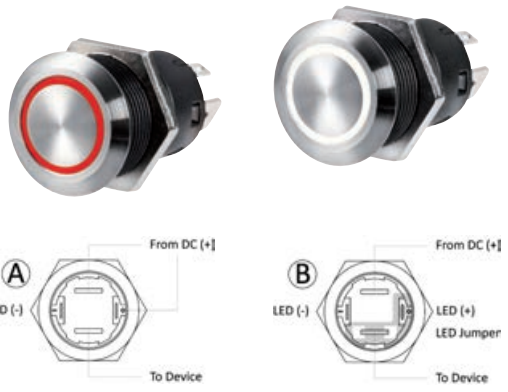
FLAT stainless steel switch

PATENTED

CNC-machined AISI316 stainless steel case. Amperage: 20A at 12V. IP67 watertight (temporary submersion). LED light crown. Life: 20,000 cycles. A scheme wiring: LED light crown always on. B scheme wiring: LED light crown switched when in ON position.

White LED	Red LED	Blue LED	Function	V	A
14.215.01	14.215.02	14.215.03	ON-OFF	12	20
14.215.05	14.215.06	14.215.07	(ON)-OFF (momentary)	12	20
14.215.09	14.215.10	14.215.11	ON-OFF	24	10
14.215.13	14.215.14	14.215.15	(ON)-OFF (momentary)	24	10



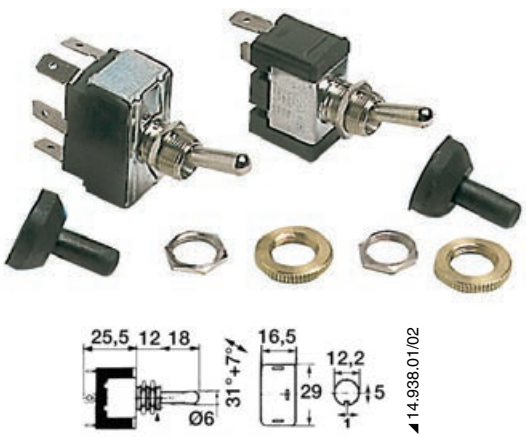


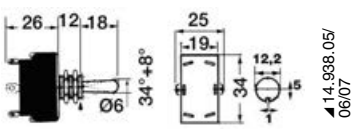
CARLING SWITCH toggle switch

CARLINGSWITCH

High tension **thermosetting** body, **silver plated** contacts, **nickel plated brass** lever and sleeve. Capacity of 15 Amp; very sturdy and functional model; best product available on the market; "Faston" terminals, pin size 12x10 mm; can be connected to 2 separate circuits.

Code	Type	Capacity	Recommended for	Terminals	Rubber cap with brass washer OPTIONAL
14.938.01	ON-OFF	15 A	-	2	14.938.03
14.938.02	ON-OFF-ON	15 A	-	3	14.938.03
14.938.05	(ON)-OFF-(ON)	15 A	hydraulic flaps, electro-controlled spot lights, trims, lifts, etc.	3	14.938.03
14.938.06	(ON)-OFF-ON	15 A	bilge pumps in automatic-manual mode	3	14.938.03
14.938.07	(ON)-OFF	15 A	electric lifts, horns, flashing lights, etc.	2	14.938.03

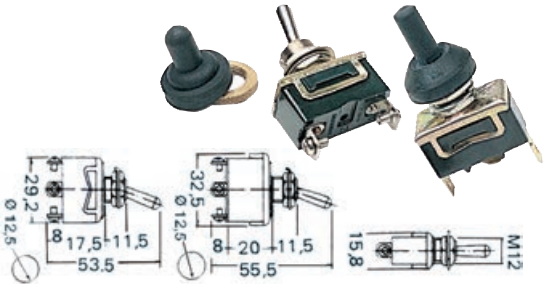




Toggle switch, lighted model

Watertight through its clear silicon cap, which enables light to pass through the lever; fitted with back faston couplings.

Code	Function	Capacity A
14.303.36	ON/OFF/ON 3 terminals (for all services)	15
14.303.37	ON/OFF/ON with spring recovery to the centre (suitable for horns, flaps,windlasses, anchor, etc.)	15



Toggle switch

Code	Type	Neck Ø mm	A	Terminals	Rubber cap with OPTIONAL brass washer	€ PACKAGE
14.925.01	ON-OFF	12	15	2	**14.925.03**	10
14.925.02	ON-OFF-ON	12	15	3	**14.925.03**	10
14.925.05	(ON)-OFF-(ON)	12	15	3	**14.925.03**	10
14.925.06	(ON)-OFF-(ON)	12	15	6 (2 poles)	**14.925.03**	10

(ON) with spring return

Self-adhesive plate

Made of **aluminium**, fitted with silk-screen indelible print, rust-proof; suitable for switch types: 14.917/918/938/925.xx.

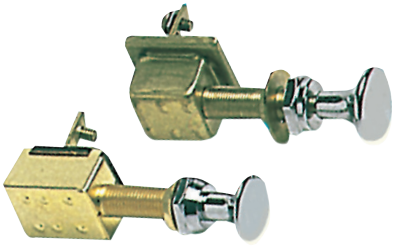
Code	Version	Hole Ø mm
14.916.01	Nav-Light	12.5
14.916.02	Cabin Light	12.5
14.916.03	Search Light	12.5
14.916.04	Blower	12.5
14.916.05	Anchor Light	12.5
14.916.06	Bilge Pump	12.5
14.916.07	Water Pump	12.5
14.916.08	Panel Light	12.5
14.916.09	Refrigerator	12.5

Code	Version	Hole Ø mm
14.916.10	Wiper	12.5
14.916.11	Radio	12.5
14.916.12	Horn	12.5
14.916.13	Parall. Battery	12.5
14.916.14	Flap Up	12.5
14.916.15	Flap Down	12.5
14.916.16	Compass.Light	12.5
14.916.17	Windlass UP-Down	12.5

Automatic fuse with thermal protection

Fitted with clear silicone watertight cap.

Code	A	Application hole on the panel mm	Body mm
14.733.05	5	12	31x14.6x35
14.733.10	10	12	31x14.6x35
14.733.15	15	12	31x14.6x35
14.733.20	20	12	31x14.6x35
14.733.30	30	12	31x14.6x35
14.733.40	40	12	31x14.6x35



Pull switch

Made of **chromed brass**; silver plated contacts, long neck, **chromed brass** knot (no chromed plastic).

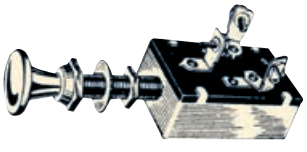
Code	Version	Neck mm
14.918.01	Standard	9.5x32
14.918.02	Watertight case	9.5x32

Utility switch

Features: a) **marine brass** body - b) **silver plated** contacts - c) **bronze** internal spring - d) long collar (10x32mm Ø pin) for no matter what application - e) chromed knob with symbols.

Code	Version
14.917.00	Switch without knob
14.917.01	1 - Navigational lights
14.917.02	2 - Mast head light
14.917.03	3 - Gas aspirator
14.917.04	4 - Windshield wipers

Code	Version
14.917.05	5 - Panel light
14.917.06	6 - High beam light
14.917.08	8 - Bilge pump
14.917.09	9 - Neutral



3-position switch with chromed brass plate

Code	Version	Max load A	Neck mm
14.918.05	with two separate circuits	25	9.5x32
14.918.06	with two circuitsuito	25	9.5x32

ON-OFF LED switch with light indicator

Made of **chromed brass**, **silver plated** contacts.
Same design as switches 14.918.01/2//5/6. Built-in warning light on the knob.

Code	Warning light	Neck mm	V
14.955.01	Red	11.5x24	12
14.955.02	Green	11.5x24	12

Culver push button

Chromed brass push buttons, fitted with **silver plated** contacts, guaranteed function.

Code	Version	Necl mm
14.918.03	Standard	15x25
14.918.04	Watertight case	15x25

Push button

Made of nylon with chromed brass ring and nut. Fitted with brass contacts and 100% watertight rubber protective cap. Max load 30 A at 12V. Shaft 15x28 mm.

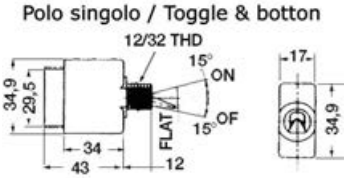
Code	Color
14.910.00NE	black
14.910.00RO	red

Thermal toggle switch, resettable model

Fitted with lighted toggle, designed to light electrical panels.

Code	volt	Amp	Panel hole mm	Frame mm
14.732.05	12	5	28x13.5	32.25x16.07
14.732.08	12	8	28x13.5	32.25x16.07
14.732.10	12	10	28x13.5	32.25x16.07
14.732.15	12	15	28x13.5	32.25x16.07

AIRPAX/SENSATA toggle handle hydraulic magnetic circuit breaker with rechargeable automatic fuse



No need of fuses. Designed to stand overloads of up to 50% for a few seconds. They immediately disconnect in case of short circuit and cannot be reactivated until the problem is solved. **Very compact**, similar to traditional circuit breakers.

Code	Body	A	Connectors	Neck Ø mm	Rubber cap	⟷ mm
14.738.05	black polycarbonate	5	Faston	12.7	**14.738.00**	17x34,9 (front), depth 34
14.738.10	black polycarbonate	10	Faston	12.7	**14.738.00**	17x34,9 (front), depth 34
14.738.15	black polycarbonate	15	Faston	12.7	**14.738.00**	17x34,9 (front), depth 34
14.738.20	black polycarbonate	20	Faston	12.7	**14.738.00**	17x34,9 (front), depth 34

Watertight cover made of rubber for tumbler switches

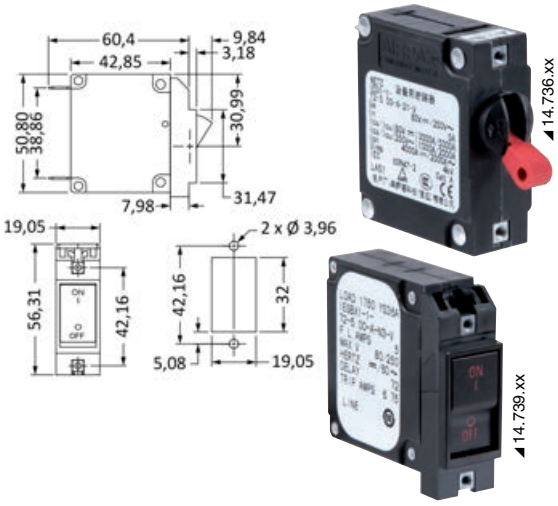
Code	Description	ORDER BY BOX
14.738.00	Equipped with brass ring. Couple to 14.738.05/10/15/20	10

AIRPAX/SENSATA toggle handle hydraulic magnetic circuit breaker with rechargeable automatic fuse

Designed on purpose for the marine environment. In case of heavy overload (i.e.: short circuits), the circuit breaker disconnects instantaneously; for overloads up to 50% it maintains the contact for few seconds so, in case it is due to a chance event, it has time to return within the limits without interrupting the power supply. In case of short circuit, the switch cannot be reactivated until the problem is solved.

- **Toggle handle circuit breaker** - Toggle actuator, IAG series, universal 12/220 V, front recess in the panel, 16-mm Ø.
- Flat flush toggle circuit breaker for horizontal or vertical mounting - Flat actuator with flush toggle, coloured light indicator for OFF position. IEGB series, universal 12/220 V, front recess in the panel 32x19-mm.

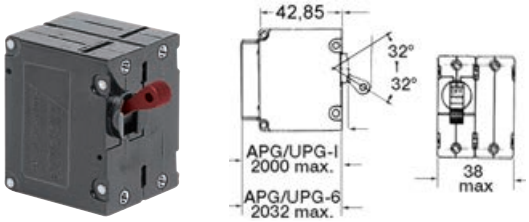
switch with overhanging lever	Flush mount lever switch		Universal power	Power A
	horizontal mounting	vertical mounting		
14.736.05	**14.740.05**	**14.739.05**	DC/AC 12/220 V	5
14.736.10	**14.740.10**	**14.739.10**	DC/AC 12/220 V	10
14.736.15	**14.740.15**	**14.739.15**	DC/AC 12/220 V	15
14.736.20	**14.740.20**	**14.739.20**	DC/AC 12/220 V	20
14.736.50	**14.740.50**	**14.739.50**	DC/AC 12/220 V	50



AIRPAX / SENSATA hydraulic/magnetic circuit breaker, 2 poles, AC

For 80V onboard applications.

Code	Universal power	Capacity A	Black frame size mm	Mounting with	Depth mm
14.734.05	DC MAX 80 V	5	19x51	2 screws	41
14.734.10	DC MAX 80 V	10	19x51	2 screws	41
14.734.20	DC MAX 80 V	20	19x51	2 screws	41
14.734.25	DC MAX 80 V	25	19x51	2 screws	41
14.734.30	DC MAX 80 V	30	19x51	2 screws	41



► Kill Cords

Kill cords

With pull-out lace and snap hook.

Code	For engines
14.203.01	Tohatsu
14.203.02	Johnson / Evinrude 3-arm fork version (unitl 1995)
14.203.03	Johnson / Evinrude standard fork version (after 1995)
14.203.04	OMC/Honda (old version)
14.203.05	Yamaha (up to 2014; 9-mm Ø)
14.203.09	Yamaha (since 2015; 13.9-mm Ø)
14.203.06	Mercury/Mariner
14.203.07	Suzuki/ Jonhson 4 strokes
14.203.08	New Honda

Safety key kit for outboard engines

Fitted with extensible lace, snap-hook and 11 keys.

Code	Engines
14.203.10	Johnson / Evinrude (old and new model) / Yamaha / Honda (old and new model) / Mercury / Suzuki (old and new model) / Tohatsu (2 and 4 strokes), Kawasaki

Ignition safety cut-off device (complying with regulations)

Made of chromed brass, fitted with front and back watertight cover.

Code	Use
14.919.03	By pulling the cap the secondary circuit is closing = in function
14.919.04	By pulling the cap the secondary circuit is interrupted. Fit for Selva

Ignition safety cut-off device (complying with regulations)

Fitted with slip-off clip system, **universal** size, it can **open and close** the circuit depending on the terminals that are connected.

Code	Description	Spare key
14.204.92	Fitted with safety key and float	**14.204.94**
14.204.96	Fitted with safety key	**14.204.98** also suitable for Selva, Johnson, Evinrude, Honda

Safety switch - it cuts off the current

IP65

Built-in mounting on the dashboard or near the control boxes.
Manual or automatic activation in case the pilot falls overboard.

Code	Description	Model	⟷ mm
14.204.90	Safety switch	Universal	70x50

FELL MARINE MOB wireless engine cut-off switch

An effective safety system that automatically shuts off the engine as soon as the xFOB transmitter gets submersed in at least 10 cm water or out of the xHUB receiver wireless range (12 m).

With the MOB basepack you get an xHUB receiver to mount in your boat and an xFOB portable transmitter for the boater.
You can also add 3 additional xFOB to your system (total of 4) if you have several users on your boat (kids, pets).
Click the button on your xFOB and the engine can be started.

If the xFOB is flat or out of the MOB wireless range, the engine can be started via the xHUB. **6 seconds after the MOB activation, the engine can be started again.** If the xHUB isn't connected to an engine, it will anyway give a sound signal should a fall over board occur.
Wear your xFOB with the following accessories:
- xBAND silicone wristband.
- xTAG complete kit for carrying the xFOB on your belt or on your lifevest.
- xTAG band for carrying the xFOB around your neck.

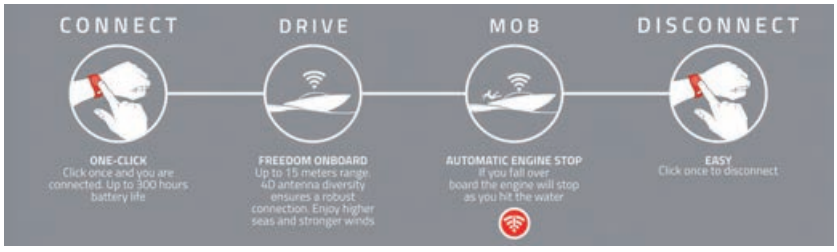
Universal installation on all engine brands. 12/24V compatibility. The xFOB CR2032 battery has up to 300 hours battery life when connected and can be easily replaced.

MOB+ WIRELESS KILL SWITCH

◢ 14.968.02

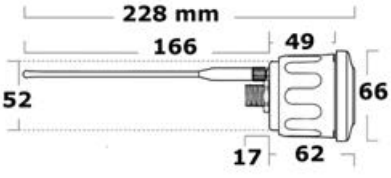
◢ Video

Code	Description
14.968.02	MOB basepack (grey xHUB + xFOB)
14.969.01	xFOB with battery
14.969.10	Red silicone xBAND
14.969.11	Black silicone xBAND
14.969.12	Yellow silicone xBAND
14.969.31	xTAG, 1 clip-on + red wristband



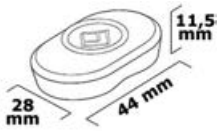
◢ 14.969.10

◢ 14.968.02 - Onboard receiver



◢ 14.968.02

◢ 14.969.12/11/10



◢ 14.969.01

◢ 14.969.01

◢ 14.969.01 - Transmitter to be worn

◢ 14.969.31

► Model ELITE electrical control panels

OSCULATI

◢ 14.703.00

◢ 14.701.00

Vertical electric control panel

Switches with rubber cap and 6x32mm glass fuse holder. **Grey aluminium** panel.
IP56 protection degree. ON-OFF switches except the first (ON-OFF-ON) and the last (ON-OFF) with spring return for horn.

Code	No of switches	⟷ mm
14.801.00	3	90x70
14.701.00	6	170x70
14.703.00	5 + socket/lighter plug	170x70

◢ 14.801.00

◢ 14.703.00

◢ 14.801.00

◢ 14.701.00

OSCULATI

Horizonatl electric panel

Protection level IP56. The first switch has 3 positions (ON-OFF-ON) with 2 separated circuits, the last has momentary ON position for horn. 15-A ensured load fitted with rubber cap and glass fuse holder size 6x32mm. **Grey anodized aluminium** panel.

Code	Color	Watertight switches	⟷ mm
14.707.00	grey	4	140x80 horizontal

◢ 14.700.00

◢ 14.705.00

◢ 14.800.00

Elite electric control panel

ON-OFF switches except the first (ON-OFF-ON) and the last (ON-OFF) with spring return for horn.
IP56 protection degree. **Light** toggle switches. **Resettable** automatic fuses.
Aluminium panel coated with epoxy resins.

Code	No of switches	Resettable fuses	⟷ mm
14.800.00	3	2 - 10A 1 - 15A	90x90
14.700.00	6	1 - 5A 3 - 10A 2 - 15A	170x90
14.705.00	5 + 1 power outlet/lighter plug	3 - 10A 2 -15A	170x90

◢ 14.104.01/02/03/04

◢ 14.104.05

OSCULATI

Wave Design electric control panel with rocker switches and LED on/off indicating lights

IP54

Made of black plastic, equipped with toggle switches and resettable thermal automatic fuses. Equipped with sticking labels to identify the different uses.

Code	No of switches	Fuses included	⟷ mm
14.104.01	4	4Ax1 + 6Ax1 + 8Ax1 + 10Ax1	110x100
14.104.02	6	5Ax2 + 6Ax2 + 8Ax1 + 10Ax1	160x100
14.104.03	8	4Ax1 + 5Ax2 + 6Ax2 + 8Ax2 + 10Ax1	210x100
14.104.04	3 + 1 lighter plug	4Ax1 + 6Ax1 + 8Ax1 + 10Ax1 (power outlet)	125x100
14.104.05	3 + 12 V voltmeter	4Ax1 + 6Ax1 + 8Ax1	110x100
14.104.06	5+1 lighter plug	5Ax2+10Ax2+15Ax2	180x107
14.104.07	5 + 12 V voltmeter	5Ax1+10Ax2+15Ax2	160x107
14.104.08	3/30 V voltmeter + lighter plug. Kit compatible with any panel series 14.104.01/02/03/04/05	-	54x100
14.104.09	3/30 V voltmeter + dual USB plug. Kit compatible with any panel series 14.104.01/02/03/04/05	-	54x100

◢ 14.104.01

◢ 14.104.02

◢ 14.104.03

◢ 14.104.04

◢ 14.104.08

◢ 14.104.05

◢ 14.104.09

◢ 14.104.06

◢ 14.104.07

Nylon control panel

With illuminated rocker switch. Watertight, injection moulded, black colour.

Code	Version	No of switches	Max A load	Included	glass fuses size mm	⟷ mm
14.103.31	vertical	6	10 each	-	6x32	165x114
14.103.32	horizontal	6	10 each	-	6x32	114x165
14.103.34	vertical	4	10 each	-	6x32	127x114
14.103.35	vertical	3 +	10 each	1 horn button + 1 voltmeter	6x32	127x114
14.103.38	vertical	6	10 each	10 Amp automatic fuses	-	165x114

◢ 14.103.31

◢ 14.103.35

◢ 14.103.38

◢ 14.103.32

◢ 14.103.34

Electrical panels with automatic fuses and double LED.

IP65

Body made of dark grey polycarbonate. Steady green LED lights up the labels indicating the different functions. Red LED switches on when in ON position. Hidden mounting screws. First ON-OFF-ON switch with 2 separate circuits and ON-OFF return switch for models 14.850.05/06.

Code	V	No. of switches	Automatic fuses	Max total A	⟷ mm
14.850.06	12	6	3x10A + 3x5A	37	165x115
14.850.05	12	5 + (watertight) USB	2x10A + 3x5A	37	165x115
14.850.04	12	4	2x10A + 2x5A	37	124x115

◢ 14.850.06

◢ 14.850.05

◢ 14.850.04

Electric control panel made of aluminium and fitted with grey polycarbonate front panel

OSCULATI

Equipped with watertight **rocker switches**, with built-in ON **pilot light**. The first switch has 3 positions ON-OFF-ON with two separate circuits, the last one is a spring switch for the horn. Supplied with automatic watertight fuses (14.845.06: 3 x 10 A, 2 x 15 A, 1 x 20 A; 14.855.07: 4 x 10 A, 2 x 15 A, 1 x 20 A). Protection level IP56. Includes polycarbonate self-adhesive labels, for various functions, in Italian, English and German.

Code	Progressive	Switches	Circuits	⟷ mm
14.845.06	vertical	6	7	171x135
14.855.07	horizontal	7	8	207x124

◢ 14.855.07

◢ Tables

◢ 14.845.06

Electric control panel with flush rocker switches

OSCULATI

Including switches model 14.196.01 fitted with LEDs which light up in ON position, and resettable **automatic** thermal breakers.
PCB electronic board **illuminates** the function signs.

Code	Finish	No of switches	Fuses A	⟷ mm
14.843.03*	Polished graphite	3	1x5 + 1x10 + 1x15	124x115
14.843.05	Polished graphite	5	2x3 + 1x6 + 1x8 + 1x10	165x115
14.843.09**	Polished graphite	8 + 1 socket/lighter plug	2x5 + 5x10 + 2x15	282x115
14.844.05	Mahogany coated	5	2x5 + 2x10 + 1x15	165x115
14.844.09**	Mahogany coated	8 + 1 socket/lighter plug	2x5 + 5x10 + 2x15	280x115

* *First switch ON-OFF-ON with 2 separate circuits*

** *A spring switch for horn*

◢ 14.843.03

◢ 14.844.05

◢ 14.843.05

◢ 14.844.09

◢ 14.843.09

◢ 14.860.06

◢ 14.860.04

PCP Compact electrical panel with circuit breaker and LED

IP66

Black polycarbonate cabinet. Toggle switches with built-in enabling LED. Equipped with resettable automatic circuit breakers. Utilities with **RED LED** backlit writings when out of service and **GREEN LED** when activated.

Code	No of switches	Switch type	Circuit breaker power	⟷ mm
14.860.04	4	1°/2°/3° = ON-OFF; 4° = (ON) - OFF	1x5A; 2x10A; 1x15A	131x100
14.860.06	6	1°/2°/3°/4°/5° = ON-OFF; 6° = (ON) - OFF	2x5A, 2x10A; 2x15A	183x100

◢ 14.861.01

◢ 14.861.02

◢ 14.861.03

◢ 14.861.04

Additional modules for panels

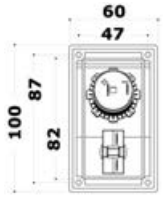
To be aligned with panels 14.860.04/14.860.06 or to be **used independently**.

Code	Function	⟷ mm
14.861.01	Power socket	60 x 100
14.861.02	Double USB (2,1+1,0 A)	60 x 100
14.861.03	Lighter plug	60 x 100
14.861.04	12/24V digital voltmeter	60 x 100
14.861.05	Double digital voltmeter batt1/batt2	60 x 100
14.861.06	Manual/automatic bilge pump switch	60 x 100

Additional modules for PCP Compact panels fit with circuit breaker + LED

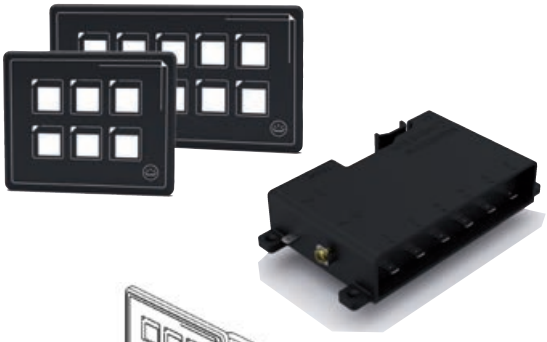
◢ 14.861.05

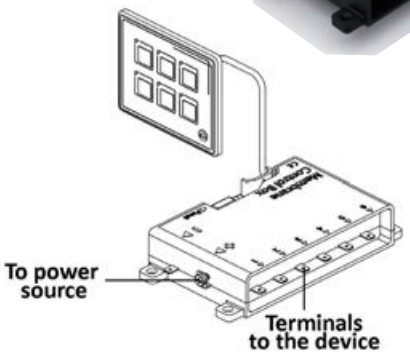
◢ 14.861.06



◢ 14.861.01/02/03/04

◢ 14.860.06+14.861.01

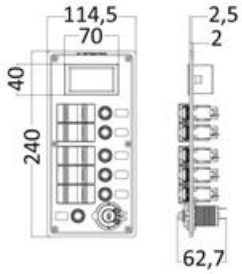




Ultra-thin touch-control electric panel including panel + USB cable + Control Box

Unit including:
- Ultra-thin backlit diaphragm **control panel** with touch switches and LED warning light on each single active function. **IP67**.
It comes with 60 stickers showing several symbols to be applied on the switches.
Switches can be **reset** from ON-OFF to (ON)-OFF.
- 1-m long standard Micro-USB **cable to connect** panel to Control Box.
It can be replaced by any Micro-USB cable.
- **Control Box** fitted with 10A **auto-resettable** fuses.

Code	V	No. of switches	A per switch	Max total A	Panel mm	Control Box mm
14.690.07	12	6	10 @ 12 V	35	91x75	136x90x32
14.690.10	12/24	10	10 @ 12 V	60	130x75	214x95x29



Electrical panel PCAL series with 9/32V digital voltmeter

IP66

Aluminium frame with black epoxy resin coating.
Toggle switch with built-in activation LED. Watertight plug.
Automatic resettable circuit breaker.

Code	Switches	Circuit breaker power	⟷ mm
14.863.05	1st = 3 positions for circuits (navigation lights) ON1 + ON2 + OFF; 2nd/3rd/4th = ON-OFF; 5th = temporary ON-OFF (horns)	1x5A; 3x10A; 1x15A; 1x15A (socket)	240x115

Panel with tester for 2 batteries and activation switch

Code	Indicator	Switch	Panel	⟷ mm
14.100.02	Analog	Light toggle	Black anodized aluminium	64x83
14.100.04	Analog	IP56 dual LED toggle	Technopolymer	75x60
14.100.05	Digital	IP56 dual LED toggle	Technopolymer	75x60

◢ 14.100.05

◢ 14.100.02

◢ 14.100.04

Digital voltmeter display

Digital touchscreen to control 2 x 12V batteries.

Code	Frame	⟷ mm
14.659.01	Dark grey	60 x 60

Watertight electric control panel

Fitted with rubber caps. Equipped with voltmeter and battery isolator 14.385.00.
Supplied with **led light check panel**. The fuses are separated on each switch.
Watertight fuse holder. It requires standard glass fuses.

Code	Switches	Switches A	Fuse size mm	⟷ mm
14.708.00	10	15	6x32	270x160

Watertight electric control panel with circuit breakers

Fitted with rubber caps. Equipped with voltmeter and battery isolator 14.385.00.
Supplied with **LED light check panel**. The fuses are separated on each switch.
Watertight fuse holder requiring standard glass fuses.
Fitted with Airpax fully **automatic** circuit breakers 14.736.10/20.

Code	Switches	Switches A	⟷ mm
14.709.00	10	15	270x160

Electric control panel with 14 switches

Equipped with voltmeter and ammeter, and battery isolator 14.385.00.
Equipped with extra bright **LED light check-panel**.
The LEDs lights up when a switch is activated.

Code	Label	switch	Fuses mm	⟷ mm
14.808.01*	sail yacht	15 A	6x30	327x285
14.809.00	power yacht	automatic thermo-magnetic “Airpax” 14.736.05; 14.736.10; 14.736.15; 14.736.20	-	327x285
14.809.01	sail yacht	automatic thermo-magnetic “Airpax” 14.736.05; 14.736.10; 14.736.15; 14.736.20	-	327x285

* *Fitted with watertight switch, coated with rubber and standard glass fuses.*

◢ 14.809.00

◢ 14.808.01

◢ 14.809.01

AC power control panel, 220 V

Fitted with Airpax resettable automatic circuit breakers (1 x 5A, 3 x 5A, 1 x 15A) + switch LED lights + 30 m A and 25 A bipolar life saver switch + “power indicator” LED light + “polarity inversion" LED light + 0/300 V voltmeter.

Code	Magneto-thermic switches	⟷ External mm	Coupled with panel
14.810.22	5	140x285	14.809.00; 14.809.01

► Ignition keys and accessories for instrument panel

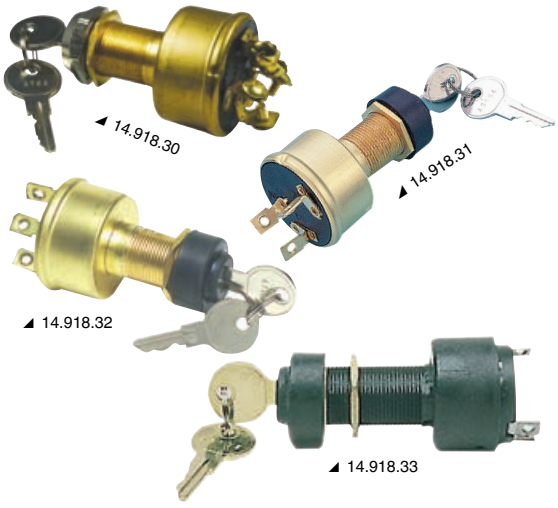
Watertight ignition key IP65

Fitted with removable key, which **activates selected systems** such as the bilge pump, water level or petrol level without powering the whole boat. Watertight seal by means of a cap on the key hole. The additional function **cannot be activated by error** as the key must be turned to the left and pushed in. Universal model for petrol or diesel engines, fitted with **nylon** body, **stainless steel, nylon and rubber** cap.

Code	Positions	A	Key watertight cap only
14.135.00	0 (removable key) +1 (contact) 2 (return spring ignition) + left additional function of 0	30	14.135.01

Watertight cap for key

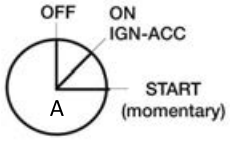
Code	Just the key watertight cap	Can be applied to keys
14.135.01	14.135.00	14.918.31/33 and all Ø 22,5 mm neck keys



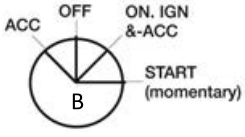
Watertight ignition key

Watertight due to its **rubber** key-protection cap.

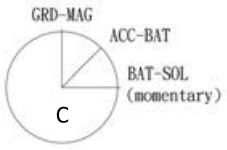
Code	Version	Rubber cover	A	Rear contacts	Positions
14.918.30	brass	No	15	5	5 (see layout C)
14.918.31	brass	Yes	15	3	3 (see layout A)
14.918.32	brass	Yes	15	4	4 (see layout B)
14.918.33	black nylon	Yes	10	3	3 (see layout A)



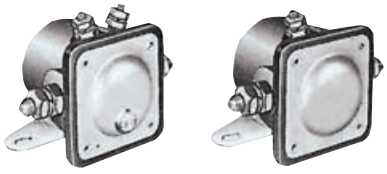
◢ 14.918.31/33



◢ 14.918.32



◢ 14.918.30



Ignition solenoid

High-quality material, sturdy and efficient.

Code	Body made of	V	Insulating terminal	Ø mm
14.918.34	bakelite	12	1	54
14.918.35	bakelite	12	2	54

LED light for instrument panel

Made of **watertight chromed brass**.

Code	Color	Threaded body Ø mm	V
14.185.01	red	18	12/24
14.185.02	green	18	12/24

► Battery boxes

OSCULATI

Battery box, watertight with ventilation

Made in accordance with ISO 10133 standards, equipped with mounting system.

Code	Made of	For batteries max A·h	⟷ mm internal	⟷ mm external	€ PACKAGE
14.545.00	Grey/blue moplen	100	360x185x220h	420x245x270h	6

Battery box

With fastening strap and buckle

Code	Made of	For batteries max A·h	⟷ inside mm	⟷ outside mm	Fastening band for spare battery	Band length cm	PACKAGE
14.546.00	Black moplen	95	265x175x205h	360x240x270h	**14.546.03**	95	10
14.546.01	White/red moplen	100	320x177x190h	370x210x250h	**14.546.03**	95	10
14.546.02*	White/yellow moplen	120	384x177x205-->235	440x240x260-->290	**14.546.04**	110	10

* *Equipped with separation diaphragm to house smaller batteries. Moreover, the cover it is supplied with can be heightened by 30mm by means of 4 shims in order to house 235-mm high instead of 190-mm high 120A batteries.*

OSCULATI

◢ 14.546.01

◢ 14.546.00

◢ 14.546.02

◢ 14.546.04

◢ 14.546.03

◢ 14.546.02

◢ 14.546.02

Battery box up to 200 A·h

Fitted with cover, designed to hold high-capacity batteries, from 120 A·h to 220 A·h (similar to Osculati products 12.408.01/03/04). In compliance with DIN standards for **any brand**.

Code	For	Made of	Base mm	Height mm	⟷ mm internal	⟷ mm external
14.544.01	1 battery	Polyethylene	300x600	320	537x237x280 h	605x305x300
14.544.02	2 batteries	Polyethylene	520x585	320	540x470x275 h	600x535x300

OSCULATI

◢ 14.544.02

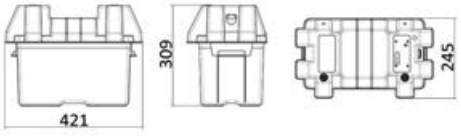
◢ 14.544.01

Power Center Deluxe

Fitted with external clamps, battery charge LED indicator and accessories.

Code	Made of	Accessories	For batteries max A.h	⟷ mm inside	⟷ mm outside
14.547.02	Polypropylene	Watertight power socket with 10A automatic fuse + 2x2.4A watertight dual USB port	105	318x175x257h	421x245x309h

OSCULATI



Double plate designed to fasten batteries or tanks

OSCULATI

Fitted with 135-cm strap, adjustment buckle, 2 plastic plates, 2 jumpers and 8 A2 7982 3.9x16-mm screws.

Code	Made of	⟷ mm
14.548.00	plastic	118x105

Battery tray

Anti-skid features, keeps the battery on a firm position and collects any acid leakage.

Code	Made of	Batteries up to A·h	⟷ mm
14.549.01	black rubber	80	280x177
14.549.02	black rubber	125	355x177

► VICTRON battery chargers and devices

VICTRON Bluesmart IP65 battery charger with Bluetooth connection

IP65

These battery chargers with built-in Bluetooth enable you to set and configure the information of your charger from your smartphone, tablet or computer, using the VictronConnect app.

180-265 V AC power supply, charge level LED indicator.
Seven step smart charge algorithm, ideal for sealed batteries.
Suitable for any kind of batteries, Li-ion batteries included.
Automatic compensation for high or low temperature.
Low power mode to charge smaller batteries.
Recovery of fully discharged 'dead' batteries.
Automatic power supply function.

Accessories included: Connect clamps, M8 eyelet connectors.

Code	Type	Outlet V	Max charge current A	No of outlets	mm	kg
14.273.06	12/4	14.4	4	1	47x95x190	0.9
14.273.08	12/7	14.4	7	1	47x95x190	0.9
14.273.11	12/10	14.4	10	1	60x105x190	0.9
14.273.16	12/15	14.4	15	1	60x105x190	0.9
14.273.14	12/25	14.4	25	1	75x140x240	0.9
14.273.19	24/13	28.8	13	1	75x140x240	0.9

14.273.20 *6-mm cable with eyelets (motor battery)*
14.273.21 *OPTIONAL standard cigarette lighter plug cable*
14.273.22 *Cable with pliers*

VICTRON Bluesmart IP67 battery charger with Bluetooth connection

IP67

The Victron-connect App connects your smartphone, tablet or computer via Bluetooth to your battery charger for initial configuration and data upload.
180-265 VAC input voltage range. 4-stage charge algorithm: BULK - ABSORPTION - FLOAT - STORAGE. Less maintenance and aging when the battery is not in use: the STORAGE MODE. Protected against overcharge, short circuit and overheating. With 92% efficiency or better, these chargers waste three to four times less heat.

Code	Type	Outlet V	Max charge current A	No. of outlets	mm	kg
14.273.13	12/13	14.4	13	1	85x211x60	1.8
14.273.18	12/17	14.4	17	1	99x219x65	2.4
14.273.26	12/25	14.4	25	1	99x219x65	2.4
14.273.28	24/12	28.8	12	1	99x219x65	2.4

VICTRON Bluesmart IP22 Bluetooth-enabled battery charger

IP22

Use the App Victron-connect to connect this battery charger to your smartphone, tablet or computer via Bluethoot in order to perform the first configuration and see all the charge data.
Universal power supply: 180/265 VAC 45/65 Hz 250/350VDC.
6-stage charge: TEST - BULK - ABSORPTION - RECONDITION - FLOAT - STORAGE, with LED for charge level control.
Microprocessor control system to adapt the charge type to the battery requirements.
Protection against: short circuit, reverse polarity, overtemperature.
Storage mode to automatically reduce float voltage to 13.2V to minimize gassing and corrosion of the positive plates. IP22. Suitable for any battery type, Li-ion included.

Code	Type	Output V	Charge max current A	No of outputs	mm	kg
14.272.10	12/15	14.4	15	1	235x108x65	1.4
14.272.12	12/20	14.4	20	3	235x108x65	1.4
14.272.14	12/20	14.4	20	1	235x108x65	1.4
14.272.15	12/30	14.4	30	3	235x108x65	1.4
14.272.16	12/30	14.4	30	1	235x108x65	1.4
14.272.18	24/16	28.8	16	3	235x108x65	1.4
14.272.17	24/16	28.8	16	1	235x108x65	1.4

VICTRON Phoenix Smart battery charger

IP43

- A Bluetooth-enabled device can be used to monitor, change settings, and to update the charger.
- The 1+1 output configuration provides full rated-power to one outlet, and up to 3 Amps to the second outlet, ideal for maintaining a starter battery.
- The 3-output configuration can provide full power to each outlet.
- Voltage automatic compensation to balance voltage drops in DC cables.
- Adaptive 5-stage charge algorithm: bulk – absorption – recondition – float – storage.
- Calibrated charge depending on whether the vessel is connected to the dock AC supply.
- BatterySafe protects your battery from gassing.
- Storage mode to prevent gassing and corrosion of the plates whenever the battery has been idle for 24 hours.
- Protection against overvoltage, short circuit, overtemperature.
- Also suitable for Li-ion batteries.
- Intelligent charge algorithm (via Bluetooth).
- Remote on/off.
- VE.Direct port.

Code	Type	Output V	Max charge current A	No. of outputs	⟷ mm	kg
14.266.11	12/30	14.4	30	3	180x249x100	3.5
14.266.13	12/50	14.4	50	3	180x249x100	3.5
14.266.16	24/16	28.8	16	1+1	180x249x100	3.5
14.266.17	24/16	28.8	16	3	180x249x100	3.5
14.266.18	24/25	28.8	25	1+1	180x249x100	3.5
14.266.19	24/25	28.8	25	3	180x249x100	3.5

14.207.30 *2m-CE-electric cable*

VICTRON Centaur analogic battery chargers

3-stage IUOU charge automatic chargers, independent outlets to charge 3 banks at the same time - full power battery.
Technical data:
- Aluminium frame
- Universal supply: 90/265VAC - 90/400 VDC - 45/65 Hz
- Analogic ammeter
- Internal temperature sensors, forced ventilation
- Protections against short circuit, overheating
- Acid-GEL-AGM battery selection.

◢14.270.30

◢14.270.36

◢14.100.06

Code	Type	Outlet V	Max charge A	No of outlets	Recommended for batteries A·h	⟷ mm	kg
14.274.02	12/30	14.3	30	3	120/300	355x215x110	3.8
14.274.03	12/40	14.3	40	3	160/400	426x239x135	5
14.274.05	12/60	14.3	60	3	240/600	426x239x135	5
14.274.06	12/80	14.3	80	3	320/800	505x255x130	12
14.274.07	12/100	14.3	100	3	400/1000	505x255x130	12
14.274.09	24/30	28.8	30	3	120/280	426x239x135	5
14.274.10	24/40	28.5	40	3	160/400	505x255x130	12
14.274.11	24/60	28.5	60	3	240/600	505x255x130	12

14.270.30 *Battery alarm panel, a sound or visual alarm warns about too high or too low voltage*

14.100.06 *BMV-700 Battery monitor*

VICTRON Phoenix microprocessor battery charger

The 'adaptive' control with microprocessor perfectly adapts the charge to the battery requirements (very important function in case of **sealed** batteries). 4-stage charge: bulk-absorption-float storage. The storage function automatically reduces to 13.2V/26.4V the FLOAT function thus minimizing gasification and corrosion of the positive plates.

Technical data: Aluminium frame; Universal supply: 90/265VAC - 90/400 VDC - 45/65 Hz; Control LED lights; Internal temperature sensors; Cable voltage drop compensation; Protections against short circuit, polarity inversion, overvoltage, overheating, high voltage of the battery.

◢14.270.47

◢14.100.06

◢14.270.30

◢14.270.36

Code	Type	Outlet V	Max charge A	Outlets	Recommended for batteries A·h	⟷ mm	kg
14.266.01	12/30	14.4	30 + 4	2 + 1*	100/400	350x200x108	3.8
14.266.02	12/50	14.4	50 + 4	2 + 1*	200/800	350x200x108	3.8

* *2 full outlets + 4 A limited outlet dedicated to starting batteries*

14.270.30 *Battery alarm panel, a sound or visual alarm warns about too high or too low voltage*

14.270.36 *PHOENIX control panel. It monitors the charge level and ensures the reduction of outlet DC current if the inlet AC power is low. It also enables to modify the battery charge parameters. RJ45 cable required.*

14.270.47 *RJ45 7-m cable.*

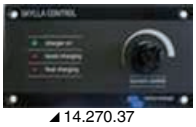
14.100.06 *BMV-700 Battery monitor*

VICTRON TG microprocessor battery charger

3-stage IUOU charge with microprocessor that perfectly adapts the charge to the battery requirements (very important function in case of sealed batteries). Two isolated outlets, the second (4 A) dedicated to the starting batteries. Battery temperature compensation automatic system (it extends the life of sealed batteries).

Technical data: 180/264 VAC - 180/400 VDC - 45/65 Hz power supply; Aluminium housing; Internal temperature sensors + battery temperature sensor; Forced ventilation; Protections against short circuit, polarity inversion, overheating.

◢ 14.270.30


◢ 14.270.37

◢ 14.270.33

◢ 14.267.01/02

◢ 14.100.06

Code	Model	Type	Outlet/inlet V	Max charge current A	Outlets	Recommende for batteries A·h	⟷ mm	kg
14.267.01	TG	24/30	28.5 / 230VAC	30 + 4	1 + 1	150/300	365x250x147	5.5
14.267.02	TG	24/50	28.5 / 230VAC	50 + 4	1 + 1	250/500	365x250x147	6.5

14.270.37 *SKYLLA control panel. It monitors the charge level and enables to reduce outlet AC current if the inlet AC power is low.*

14.270.33 *Remote chargeswitch*

14.270.30 *Battery alarm panel: audio/visual alarm in case of high/low voltage.*

14.100.06 *BMV-700 Battery monitor*

VICTRON Skylla-i 24 V microprocessor battery charger

- Parallel synchronized operation.
- The right amount of charge: variable absorption time.
- BatterySafe mode: preventing damage due to excessive gassing.
- Storage mode: less maintenance and aging when the battery is not in use.
- Temperature compensation to extend the battery life.
- 185-265 VAC supply.

Li-ion ready.

◢ 14.267.05/06

◢ 14.267.03/04

Code	Model	Type	Outlet/inlet V	Max charge A	Outlets	Recommended for batteries A·h	⟷ mm	kg
14.267.03	Skylla-i	24/80	28.8	80	3	400/800	402x250x140	8
14.267.05*	Skylla-i	24/80	28.8	80+4	1+1	400/800	402x250x140	8
14.267.04	Skylla-i	24/100	28.8	100	3	500/1000	402x250x140	8
14.267.06*	Skylla-i	24/100	28.8	100+4	1+1	500/1000	402x250x140	8

14.270.38 *SKYLLA-I control panel. It monitors the charge level and enables to reduce outlet current if the inlet power is low. Cable RJ45 required.*

14.270.47 *RJ45 7-m cable*

14.100.06 *Battery monitor*

** 2 independent outputs: first full charge 80/100 A, second charge 4 A dedicated to starting batteries.*

◢ 14.270.38

◢ 14.270.47

◢ 14.100.06

VICTRON Skylla IP44 battery charger with microprocessor control system

IP65

Splash-proof version. 3-stage IUoUo charge with microprocessor control system to exactly determine the state of charge of the battery. It features 3 isolated outputs. All outputs can supply the full rated output current.
Automatic temperature compensation with internal sensors, forced cooling, acrylic resin coating for electronic board, short circuit protection, overvoltage, reverse polarity. Cable voltage loss compensation.
Perfect voltage control so the battery charger can be used as **power supply**. Several chargers can be connected in parallel via RJ45 cable and synchronised with help of the CAN bus interface. **LCD display control panel**.

◢ 14.100.07

◢ 14.100.06

◢ 14.270.38

Code	IP	Type	Input/output V	Charge voltage (absorption) V	Charge max current A	No of outputs	⟷ mm	kg
14.267.10	44	12/60/3	120/240	14.4	60	3	401x300x165	6
14.267.11	44	12/60/1+1	120/240	14.4	60	1+1*	401x300x165	6
14.267.20	65	12/70/3	90/265	14.4	70	3	401x300x165	6
14.267.15	44	24/30/1+1	120/240	28.8	30	1+1*	401x300x165	6
14.267.21	65	24/35/3	90/265	28.8	35	3	401x300x165	6

** 1 output + 1 output limited to 4A dedicated to starting batteries.*

14.270.38 *SKYLLA-I control panel. It monitors the charge level and enables to reduce outlet current if the inlet power is low.*

14.100.06 *BMV-700 Control panel for 1 battery.*

14.100.07 *BMV-702 Control panel for 2 batteries.*

VICTRON battery monitor

This digital monitor displays the status of any battery: voltage, state of charge (Ah or %), time to go, charge/discharge current, current and ampere-hours consumed and instant consumption.
Visual and audible alarm. It comes with connection cables and shunt.

Code	Model	Version	Monitor for	V	Bore Ø mm
14.100.06	BMV-700	Standard	1 battery	9/90	52
14.100.07*	BMV-702	Standard	2 batteries/battery arrays	9/90	52
14.100.08	BMV-712	Standard + Bluetooth connection to smartphones and tablets	2 batteries/battery arrays	9/90	52

* *It stores previous events to evaluate the battery conditions. Programmable relay to disconnect the power supply (with low battery) from non-essential services or to activate the generator.*

VICTRON MULTIPLUS battery charger + inverter combo system

This system combines a pure sine wave inverter and a sophisticated battery charger using adjustable recharge technology. Compatible with lithium batteries.
Two AC outlets. In case of power shortage from the dock or from the generator, the system continuously feeds what's connected.
The second outlet is available in case of AC source, only. The devices, such as boilers, which might run the battery down should be connected to this outlet.
Parallel + three-phase function. Up to 6 units can be connected in parallel. For the three-phase current, 3 units of the same kind can be connected. Up to 6 series of 3 units each can be connected in parallel.
Power control: the very powerful multiplus device can absorb a lot of power from the dock or the generator. By means of the multicontrol panel (14.270.32), the current draw can be monitored and a maximum limit can be set. Depending on the limit set, the multiplus device will only use the remaining energy to charge the batteries.
Power assist: whenever a power peak is required for a short period, the multiplus device will offset the power shortage drawing energy from the battery. When the current draw drops, the surplus current is used to recharge the batteries.
The micro-processor operated battery charger is fitted with a 4-stage bulk-absorption-float-storage charge system similar to the Phoenix/Skylla battery chargers.
- Aluminium body
- Protection devices against short circuit, overcharge, too low or too high battery, high ripple frequency, etc.

Code	Type	DC supply V	Inverter Power W	Outlet V	Battery charge current A	No of outlets	⟷ mm	kg
14.268.00	12/500/20-16	9.5 - 17	500	230VDC ± 2%	20+1	1+1*	311x182x100	4.4
14.268.01	C12/800/35	9.5 - 17	800	230VDC ± 2%	35+4	1+1*	360x240x100	6.4
14.268.02	C12/1200/50	9.5 - 17	1200	230VDC ± 2%	50+4	1+1*	406x250x100	8.2
14.268.23	C12/1600/70	9.5 - 17	1600	230VDC ± 2%	70+4	1+1*	465x270x120	10
14.268.06	C24/1600/40	19 - 33	1600	230VDC ± 2%	40+4	1+1*	375x214x110	10
14.268.26	C24/1600/40	19 - 33	1600	230VDC ± 2%	40+4	1+1*	465x270x120	10
14.268.07	C12/2000/80	9.5 - 17	2000	230VDC ± 2%	80+4	1+1*	520x255x125	12
14.268.09	C24/2000/50	19 - 33	2000	230VDC ± 2%	50+4	1+1*	520x255x125	12
14.268.18**	24/3000/70-32	19 - 33	3000	230VDC ± 2%	70+4	1+1*	362x258x218	18
14.268.19	24/5000/120-100	19 - 33	5000	230VDC ± 2%	120+4	1+1*	444x328x240	30

* *1/4A second outlet for starter battery maintenance.*
**

14.270.28 *VE-Direct --> USB interface for computer connection (only for 14.268.00).*
14.270.39 *VE-Bus --> USB interface for computer connection.*
14.270.32 *Digital Multicontrol. Control panel for both inverter and battery charger. Inlet current management when switching from dock to generator. Triphase devices or devices in parallel can be managed. VE-BUS remote systems can be configured. RJ45 cord required.*
14.270.47 *RJ45 7-m cord to complete 14.270.39.*
14.100.06 *Battery monitor.*
14.070.50 *Color Control GX.*

VICTRON Quattro combo system - Battery charger + Inverter

Same functions of the Multiplus system, but it can be connected to 2 independent AC sources (eg. dock and generator or 2 generators) and the Quattro system will **automatically** connect to the active source.

Code	Type	AC inlet (2x)	DC supply V	Inverter		Battery charger		No of outlets	⟷ mm	kg
				Power V - A	Outlet V - AC	Charge voltage	Battery charge current A			
14.268.10	12/3000/120	187/265	9.5 - 17	3000	230	14.4	120±4	1+1*	362x258x218	19
14.268.11	24/3000/70	187/265	19 - 33	3000	230	28.8	70±4	1+1*	362x258x218	19
14.268.13	24/5000/120	187/265	19 - 33	5000	230	28.8	120±4	1+1*	444x328x240	30
14.268.14**	24/8000/200	187/265	19 - 33	8000	230	28.8	200±4	1+1*	470x350x280	41

* *Second 4A outlet dedicated to the starting batteries.*
** *Only available on order.*

14.270.32 *Digital Multicontrol. Control panel for both inverter and battery charger. Possibility to manage the inlet current when switching from dock supply to generator supply. It can manage parallel and three-phase devices. It can be configured with several VE-BUS remote systems. Cable RJ45 needed.*

14.100.06 *Battery monitor.*

14.270.47 *7-m RJ45 cable for 14.270.39*

14.270.39 *VE-Bus --> USB interface for computer connection.*

VICTRON GX series control panel

It provides control and monitoring (also in remote mode) of VICTRON devices.
All readings on the screen can be forwarded to a remote computer via an external router (WebBoat4G PLUS, not included) for both monitoring and configuration.
The GX series supports the following products: Inverter/Multi/Quattro/Skylla-i/Control panels/Battery monitors.

Code	Model	Version
14.070.50	Control GX	With colour display
14.070.51	Control VENUS GX	Without display

VICTRON insulation transformer

This device prevents all continuity between the onboard electric installation and the dock thus making the installation safer since it is isolated. It allows the automatic circuit breaker to activate correctly and avoids problems due to galvanic currents.

Code	Type	V	Power W	⟷ mm	kg
14.264.01	2000	115/230	2000	375x214x110	10
14.264.02	3600	115/230	3600	362x258x218	23
14.264.03	7000	230	7000	362x258x218	26
14.264.04*	3600	115/230	3600	362x258x218	23

* *Automatic selection of input voltage.*

VICTRON 120/240V 32/100A autotransformer

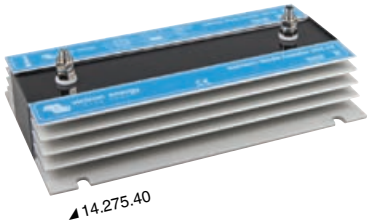
It is an electrical transformer with only one winding that has at least three taps where electrical connections are made. It drastically reduces ohmic losses and eliminates the need of electrical isolation between windings but, unlike dual-winding transformers, it doesn't provide electrical isolation between the primary and secondary side of the transformer. It is often used to step up or step down voltages in the 110/120 volt range and voltages in the 220/240 volt range. For example providing 120V from 240V input, allowing equipment designed for 120 volts to be used with a 240 volt supply.

Code	Input/output voltage	Max input current (240V)	⟷ mm	kg
14.264.10	120/240 V; 50/60 Hz	32 A	375x214x110	10
14.264.11	120/240 V; 50/60 Hz	100 A	425x214x110	14

VICTRON galvanic isolator

They avoid galvanic corrosion when different metals are present onboard.
The galvanic isolator prevents any galvanic current through the dock power cables.

Code	Peak current A	Max current A	⟷ mm	kg
14.275.40	1600/20 ms	16	60x120x200	1
14.275.41	1600/20 ms	32	63x164x235	2
14.275.42	1600/20 ms	64	64x164x224	2


14.275.40

14.275.41/42

VICTRON automatic switch

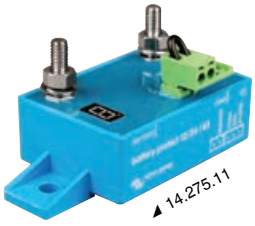
It automatically switches the dock/inverter power source

Code	V	W	⟷ mm
14.270.42	230	max 3500	120x255x75

VICTRON battery protect

This device disconnects the battery from non essential loads before it is completely discharged or before it has insufficient power to start the engine.

Code	Max continuous current A	Peak current A	Operational field V	Disconnection V	Reconnection V	Disconnection time	⟷ mm	kg
14.275.11	65	100	6-35	10.5/21	12/24	90 seconds	40x48x106	0.2
14.275.12	100	600	6-35	10.5/21	12/24	90 seconds	59x42x115	0.5
14.275.13	220	600	6-35	10.5/21	12/24	90 seconds	62x123x120	0.8


14.275.11

14.275.13

14.275.12

VICTRON Cyrix-I dual battery charger

By means of a micro-processor, this powerful relay automatically connects the batteries in parallel when one of them has reached the preset voltage and it split them when the voltage drops below the FLOATING level.
Cryrix-I are an excellent option to diode separators since there's no voltage drop.
In the traditional installation, the alternator is directly connected to the starting battery.
Service battery and bow propeller are combined with the starting battery by means of the Cryrix-I.
When the Cryrix-I detects that the starting battery is charged, it will activate thus enabling the other batteries to charge in parallel. Cryrix-I detects the voltage of both batteries therefore it will activate if, for example, the service battery is being charged.

Code	Type	Max charge current A	Peak current A	Connection voltage V	Disconnection voltage V	⟷ mm
14.263.01	12/24/120	120	150	26 - 27.6	22 - 25.7	46x46x80
14.263.02	12/24/225	225	500	26 - 27.6	21 - 25.6	100x90x100
14.263.03	12/24/400	400	2000	26 - 27.6	21 - 25.6	78x102x110

14.263.02

14.263.01

14.263.03

► VICTRON battery isolators

They automatically connect several batteries by means of a single alternator without connecting the batteris between them and giving priority to the lowest battery.

VICTRON Argodiod battery isolators

Version featuring a low voltage drop thanks to the use of Schottky diodes: at 0.3 V, they have a low current input to supply output B + alternator (in case it should be supplied to start the charge).

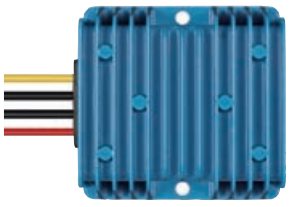
Code	Type	Max charge A	Alternator max current A	No. of batteries	Max voltage drop V	⟷ mm
14.922.10	80-2 AC	80	80	2	0.3	60x120x90
14.922.11	120-2 AC	120	120	2	0.3	60x120x115
14.922.12	160-2 AC	160	160	2	0.3	60x120x150
14.922.20	100-3 AC	100	100	3	0.3	60x120x115
14.922.21	140-3 AC	140	140	3	0.3	60x120x150
14.922.22	180-3 AC	180	180	3	0.3	60x120x200

VICTRON Argofet battery isolators

FET isolators allow simultaneous charging of two or more batteries from one alternator (or a single output battery charger), without connecting the batteries together. Discharging the accessory battery for example will not result in also discharging the starter battery.
In contrast with diode battery isolators, FET isolators have virtually no voltage loss. Voltage drop is less than 0,02 Volt at low current and averages 0,1 Volt at higher currents.

Code	Type	Max charge A	Alternator max current A	No. of batteries	Max voltage drop	⟷ mm
14.922.30	100-2	100	100	2	0.02	65x120x200
14.922.31	200-2	200	200	2	0.02	65x120x200
14.922.40	100-3	100	100	3	0.02	65x120x200
14.922.41	200-3	200	200	3	0.02	65x120x200

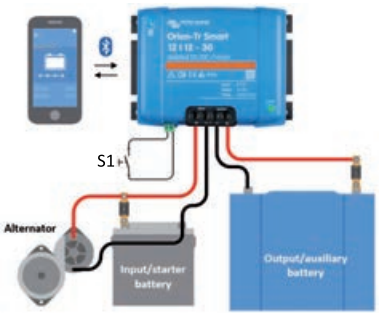
► VICTRON DC/DC converters



VICTRON Orion DC-DC non-insulated voltage converter

IP67 100% watertight, fitted with extra-long cords (1.80m).

Code	V		Continuous output A	Efficiency %	⟷ mm	kg
	input	output				
14.277.31	15/40	12 + - 3%	10	93	74x74x32	0.3
14.277.32	15/40	12 + - 3%	20	95	74x74x32	0.3
14.277.33	18/35	12 + - 3%	100	95	265x127x63	2.15



VICTRON DC/DC voltage converter and Orion-Tr Smart battery charger with galvanic insulation and Bluetooth connection

Several onboard devices need **stabilized voltage** or **voltage conversion**.
Input and output galvanic insulation prevents supply drop or interruption due to overload.

- Adjustable output voltage, it can be used as battery charger fitted with 3-stage charge algorithm.
- Remote control with low-voltage switch or relay.
- All models can work in parallel to increase output power.
- Remote control and adjustment via Bluetooth.

Code	Modell	V		Adjustable output voltage	A outlet		Efficiency %	⟷ mm	kg
		Inlet	Outlet		Continuous	Max			
14.277.01	12/12/18	8-17	12.2	10-15	18	25	87%	130x86x70	1.3
14.277.02	12/24/10	8-17	24.2	20-30	10	15	88%	130x86x70	1.3
14.277.03	24/12/20	16-35	12.2	10-15	20	25	88%	130x86x70	1.3
14.277.04	24/24/12	16-35	24.2	20-30	12	15	89%	130x86x70	1.3
14.277.05	12/12/30	10-17	12.2	10-15	30	40	87%	130x86x80	1.8
14.277.06	12/24/15	10-17	24.2	20-30	15	25	88%	130x86x70	1.6
14.277.07	24/12/30	20-35	12.2	10-15	30	45	88%	130x86x70	1.6
14.277.08	24/24/17	20-35	24.2	20-30	17	25	89%	130x86x70	1.6

VICTRON DC/DC non-insulated high-power voltage converter to be also used as battery charger - Adjustable outlet voltage version

ON-OFF remote connection. Adjustable outlet voltage. Parallel switching possible for more power.

Code	V		Outlet A		Efficiency	⟷
	inlet	outlet	continuous	max	%	mm
14.277.39	15 - 40	12	5	5	93	25x43x20
14.277.40	18 - 35	10 - 15	25	35	96	65x88x160
14.277.41*	18 - 35	13.2	40	55	95	65x188x185
14.277.42	18 - 35	10 - 15	70	85	92	65x88x195
14.277.52	9 - 18	20 - 30	10	20	95	45x90x125
14.277.53	9 - 18	20 - 30	20	30	93	65x88x195

* *Outlet voltage cannot be adjusted.*

◢ 14.277.52

◢ 14.277.53

VICTRON Buck-Boost high-power voltage converter

DC-DC converter for charging a 12/24V service battery.
Ideal for vessels with an intelligent dynamo, used in most recent engines that do not always emit the correct charging current.

Code	V		Max charging current A		⟷	kg
	inlet	outlet	12V	24V	mm	
14.277.60	10/30	10/30	25	15	165x120x30	0.6
14.277.61	10/30	10/30	50	25	213x120x30	1.4
14.277.62	10/30	10/30	100	50	288x162x95	4.1

► Which inverter to choose?

victron energy

There are 2 types of inverter:
A) **Pure sine wave**. In this inverter the current is regulated by a quarz-precision microprocessor. The result is a pure sine wave equal to the domestic net one.
B) **Modified sine wave**. The voltage generates a square wave, whose frequency and width are stable, but **not compatible** with some appliances such as TVs, audio systems, noen or low-consumption lamps, pad coffee machines, electric toothbrushes, etc.

Our catalogue only proposes pure sine wave inverters. They are more expensive but can be used for all applications.

► VICTRON inverters

VICTRON Phoenix inverter, pure sine wave 180/1200W

Designed for professional applications, they use the Sinumax technology ensuring the necessary power but with limited weight and size. Sinumax is also compatible with power peaks during the starting phase required by devices such as refrigerators, electric motors and similar, while traditional 'switching' inverters don't manage these peaks in an optimum way.
Technical characteristics: aluminium frame, forced ventilation with temperature sensor.
Protections for short circuit, overload, high or low battery voltage with alarm, high temperature.

Code	V	Type	Outlet socket	V		Hertz	Range W		Efficiency	⟷	kg
				DC intlet V	AC outlet V		Continuous	Peak	%	mm	
14.270.16	12	12/250 direct	SCHUKO	9.2 - 17.3	230 ±3%	50	250	350	87	86x165x260	2.4
14.270.17	24	24/250 direct	SCHUKO	18.4 - 34	230 ±3%	50	250	350	90	86x165x260	2.4
14.270.20	12	12/375 direct	SCHUKO	9.2 - 17.3	230 ±3%	50	375	700	89	86x165x260	3
14.270.21	24	24/375 direct	SCHUKO	18.4 - 34	230 ±3%	50	375	700	89	86x165x260	3
14.270.18	12	500 direct	SCHUKO	10.5 - 15.5	230 ±3%	50	500	1000	91	86x172x275	3.9
14.270.19	24	500 direct	SCHUKO	21 - 31	230 ±3%	50	500	1000	91	86x172x275	3.9
14.270.22	12	12/800 direct	SCHUKO	9.2 - 17.3	230 ±3%	50	800	1600	90	105x216x305	5.5
14.270.23	24	24/800 direct	SCHUKO	18.4 - 34	230 ±3%	50	800	1600	90	105x216x305	5.5
14.270.07	12	12/1200 direct	SCHUKO	9.2 - 17.3	230 ±3%	50	1200	2400	92	104x194x305	8.5
14.270.48	24	24/1200 direct	SCHUKO	18.4 - 34	230 ±3%	50	1200	2400	94	117x232x327	7.4

Direct version: connection to a computer via interface 14.270.28 as well as Bluetooth connection to smartphones and tablets via 14.270.29.

14.270.29 *Bluetooth Smart Dongle provides for display of data via Bluetooth Vicrontconnect App on Apple and Android devices.*
14.270.28 *Victron computer interface for Ve-Direct.*

◢ 14.270.28

◢ 14.270.29

◢ 14.100.06

◢ 14.070.50

◢ 14.270.35

◢ 14.270.41

◢ 14.270.30

◢ 14.270.39

◢ 14.278.60/61

◢ 14.270.47

VICTRON Phoenix/Phoenix Smart inverter, pure sine wave 1600/5000 W

Designed for professional applications, they use the Sinumax technology ensuring the necessary power but with limited weight and size.
Sinumax is also compatible with power peaks during the starting phase required by devices such as refrigerators, electric motors, lamps, etc.
Technical characteristics: aluminium frame, forced ventilation with temperature sensor, protections against short circuit, high or low battery voltage alarm, pole inversion, inrush current, etc.
For automatic switch to another AC power supply source, we recommend to buy the Multiplus inverter/battery charger fitted with this function and disconnecting the sole battery charger.

Phoenix
a) Connection to a laptop via a VE.Direct-to-USB cable.
b) Remote on/off switch.

Phoenix Smart:
a) Bluethooth built-in connection to your tablet or smartphone.
b) VE.DIRECT communication port allowing wired connection to a laptop via a VE.Direct-to-USB cable.
c) ECO mode: When the power being provided by the device falls below a certain value, it will automatically enter standby mode.
d) Remote on/off switch.

Code	V	Type	V		Hz	Capacity W		Efficiency %	⟷ mm	kg
			DC inlet V	AC outlet V		Continuous	Peak			
14.270.49	12	12/1600 Smart	9.3 - 17	230 ± 2 %	50	1600	3000	94	485x219 x125	12
14.270.50	24	24/1600 Smart	18.6 - 34	230 ± 2 %	50	1600	3000	94	485x219 x125	12
14.270.51	12	12/2000 Smart	9.3 – 17	230VAC ± 2%	50	2000	4000	94	485x219 x125	13
14.270.52	24	24/2000 Smart	18.6 - 34	230 ± 2 %	50	2000	4000	94	485x219 x125	13
14.270.53	12	12/3000 Smart	9.3 - 17	230 ± 2 %	50	3000	6000	94	540x276 x152	18
14.270.54	24	24/3000 Smart	18.6 - 34	230 ± 2 %	50	3000	6000	94	487x286 x152	18
14.270.15	24	24/5000 Smart	19 - 33	230 ±3%	50	5000	10000	94	444x328 x240	30
14.270.55	24	24/5000 Smart	18.6 - 34	230 ± 2 %	50	5000	10000	94	595x295 x160	29

14.070.50 *Colour GX control*
14.270.35 *Remote ON/OFF switch for Phoenix (RJ45 cord required)*
14.270.41 *Remote ON/OFF switch for Phoenix Smart*
14.270.30 *Battery alarm panel: high or low voltage is signalled with an audible and visual alarm*
14.270.39 *Victron-to-USB port connection kit for Phoenix*
14.278.60 *VE.Direct-to-USB 3-m cable for Phoenix Smart*
14.278.61 *VE.Direct-to-USB 5-m cable for Phoenix Smart*
14.270.47 *RJ45 7-m cord.*
14.100.06 *Battery monitor*

► Voltage converters and battery isolators

◢ 29.997.01

◢ 29.997.02

DC-DC voltage electronic converter

It can lower the voltage from 24 V to 12 V.
It includes a protection circuit against overvoltage and reverse polarity and short circuits.
It stabilizes the voltage, which is necessary for some electronic equipment.

Code	Volt		A continuous	Type	Efficiency	⟷ mm
	Input	Output				
29.997.01	20-30	13,5±0,5	7	Linear	85%	100x100x60
29.997.02	20-30	13,5±0,5	16	Switching	85%	105x170x35

◢ 14.922.50

◢ 14.922.51/52

Very low voltage drop battery combiners (diodes) and automatic battery isolators

MENO DI 0,25 V / UNDER 0,25 V

They can charge more than one battery simultaneously, giving preference to the battery with the lowest charging level. **Electrical separation of each battery to avoid the one with highest charge level to flow into the one with lowest charge level**. **Aluminium** body, wide finning suitable for dispersing heat efficiently.

Code	Batteries	Max power delivered by each battery	Alternators	Max voltage	⟷ mm
14.922.50	2	70 A	1	100 V	65x127x136
14.922.51	3	140 A	2	100 V	65x127x236
14.922.52	4	70 A	2	100 V	65x127x236
14.922.53	3	70 A	1	100 V	65x127x136
14.922.54	2	140 A	2	100 V	65x127x236
14.922.55	2	210 A	2	100 V	65x127x236

► Clamps, cables and battery terminals

BIG battery terminals for high amperage

OSCULATI

14.385.99 Made of nickel-plated brass with stainless steel nuts and bolts. + and - fastening bolts to avoid confusing the cables.

Pair of bronze clips for batteries

OSCULATI

14.386.00 Packed in pairs, universal model; selected pins sizes 8 and 10 mm used to avoid inverting battery cables; version fitted with **stainless steel** pins and screw nuts.

Cap pair

Made of **black and red PVC**, designed to cover and isolate battery clamps; universal model.

Code	ORDER BY BOX
14.990.78	1
14.990.78-BK	10

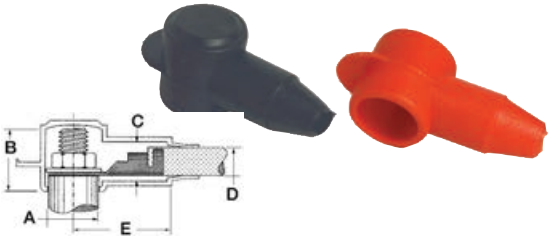
Kit including a pair of clips and a pair of caps

Code	Composed	
	Clamps (coupple)	Cover (coupple)
14.286.00	14.386.00	14.990.78

Insulating caps

Made of **soft PVC**, designed for battery cables and electrical connections with general power.

Black	Red	For cables up to mm (external)	A mm	B mm	C mm	D mm	E mm
14.987.01	**14.988.01**	12	18	20	13	9/12	27
14.987.02	**14.988.02**	16	20	24	18	9/16	35



Universal snap mounting battery terminals

Made of **polypropylene, chromed brass and AISI316 stainless steel**.
Universal for all batteries, suitable for cables up to 40 mm^2, max 800 amp.

Code	Sold
14.388.00	**in pair**, blue + red

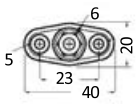
Power Post junctions for electrical cables

Suitable for high amperage, determined by the electrical cable gauge and not by the knot.
Nylon/fiberglass base. Stainless steel pin. Chromed brass nuts

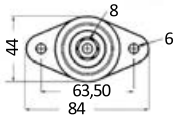
Code	Version	Base mm	Pin mm	Protection caps recommended in soft PVC	Protection in hard polycarbonate
14.205.01	Mini	40x20	6	**14.987.01; 14.988.01**	-
14.205.02	Maxi	83x44	8	**14.987.02; 14.988.02**	-
14.205.00	Big	82x43	10	**14.987.02; 14.988.02**	-
14.205.03	Mini	35x42	6 (2)	**14.987.01; 14.988.01**	**14.205.13**
14.205.04	Midi	50x41	8 (2)	**14.987.01; 14.988.01**	**14.205.14**
14.205.05	Midi - B	50x41	8+10 (1+1)	**14.987.01; 14.988.01**	14.205.14
14.205.06	Big	50x41	10 (2)	**14.987.02; 14.988.02**	14.205.14

◢ 14.205.01

◢ 14.205.02



◢ 14.205.01



◢ 14.205.02

◢ 14.205.04

◢ 14.205.05

◢ 14.205.06

◢ 14.205.13/14

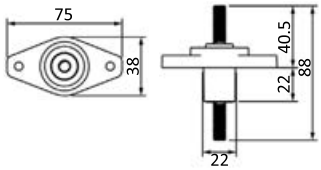
◢ 14.205.03

◢ 14.205.00

Power Post junction box for electrical cables

Suitable for high amperage. Nylon/fiberglass base, stainless steel pin and nuts.

Black	Red	Version	Base plate mm	Pin mm	Recommended soft PVC protection caps
14.205.20	**14.205.21**	Maxi	75x35	8	**14.987.02; 14.988.02**
14.205.22	**14.205.23**	Big	75x35	10	**14.987.02; 14.988.02**



Battery cables, made of copper and coated with synthetic resin insulating covering

CE Made in accordance with EC standards for use in bilges.

black	red	Section mm	Max continuous current A	Ø outer mm	Roll m
14.381.25	**14.382.25**	25	100	9.5	24
14.381.35	**14.382.35**	35	125	12	24
14.381.50	**14.382.50**	50	160	14	24
14.381.70	**14.382.70**	70	250	16	24
14.381.90	**14.382.90**	95	300	21	24

Marine electric cable made of copper and coated with extra-insulating PVC

Made in compliance with the CEI 20-22 20-22II and CEI 20-371 standards and with the EU DIRECTIVE 2011/95/CE. **Flame retardant and oil resistant (please note that the cable In the engine room must compulsorily be oil-resistant).**

◢14.150.xx

◢14.148.xx

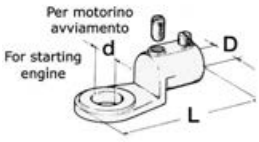
◢14.147.xx;
14.149.xx;
14.146.xx

Code	Version	Wire color	Sheath	Roll m	Sez. mm^2	Ø outer mm
14.150.15BI	unipolar	white	-	100	1.5	-
14.150.15BL	unipolar	blue	-	100	1.5	-
14.150.15GR	unipolar	grey	-	100	1.5	-
14.150.15GV	unipolar	yellow/green	-	100	1.5	-
14.150.15MA	unipolar	brown	-	100	1.5	-
14.150.15NE	unipolar	black	-	100	1.5	-
14.150.15RO	unipolar	red	-	100	1.5	-
14.150.25BI	unipolar	white	-	100	2.5	-
14.150.25BL	unipolar	blue	-	100	2.5	-
14.150.25GV	unipolar	yellow/green	-	100	2.5	-
14.150.25NE	unipolar	black	-	100	2.5	-
14.150.25RO	unipolar	red	-	100	2.5	-
14.150.40BL	unipolar	blue	-	100	4	-
14.150.40GV	unipolar	yellow/green	-	100	4	-
14.150.40NE	unipolar	black	-	100	4	-
14.150.40RO	unipolar	red	-	100	4	-
14.150.60BL	unipolar	blue	-	100	6	-
14.150.60GV	unipolar	yellow/green	-	100	6	-
14.150.60NE	unipolar	black	-	100	6	-
14.150.60RO	unipolar	red	-	100	6	-
14.148.10	bipolar	black and red	medium gray	50	1	7
14.148.15	bipolar	black and red	medium gray	50	1.5	8
14.148.25	bipolar	black and red	medium gray	50	2.5	10.1
14.148.40	bipolar	black and red	medium gray	50	4	11
14.147.15	tripolar	black, white, blue	medium gray	50	1.5	8.5
14.147.25	tripolar	black, white, blue	medium gray	50	2.5	10.9
14.149.10	tripolar (for bilge pumps)	black, brown and red	medium gray	50	1.5	8.20
14.149.20	tripolar (for bilge pumps)	black, brown and red	medium gray	50	2.5	9.20
14.146.15	tripolar	blue, yellow/green and brown*	Light gray	50	1.5	8.5
14.146.25	tripolar	blue, yellow/green and brown*	Light gray	50	2.5	10
14.146.40	tripolar	blue, yellow/green and brown*	Light gray	50	4	12.7

* *Designed for connections to 110/220 volt*

N.B.: Suitable for conductor sizes 6 and 10 mm2, see product numbers 14.593.00/01 and 14.595.00

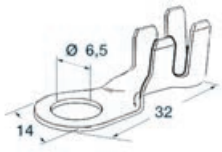
Blown-out eye terminal



Mounting using a battery cable hex key.

Code	d mm	D mm	L mm	Cable section mm²	ORDER BY BOX
14.034.00	8	7	47	25	6
14.034.10	10	9.2	49	35	6
14.034.20	10	12	60	50	6
14.034.30	12	13	60	70	6

Eyelet terminal made of galvanized copper



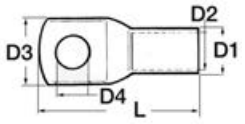
It can be locked with pliers.

Code	Hole mm	For copper thread	ORDER BY BOX
14.393.01	6.5	**14.393.00**	100

Power lugs

Made of made of high conductivity tin-plated copper.

Code	Cable section mm²	D3 mm	L mm	D4 mm	D2 mm	D1 mm	ORDER BY BOX	Tools to fix thread on electric cables
14.035.06	6	11	27	5.3	3.8	5.2	100	**14.035.30**
14.035.10	10	13.5	31	6.4	4.7	6.5	100	**14.035.30**
14.035.16	16	14	35	6.4	5.6	7.5	100	**14.035.30**
14.035.25	25	16	40	8.3	7.1	9.5	50	**14.035.30**
14.035.26	25	16	40	10.3	7.1	9.5	50	**14.035.30**
14.035.35	35	19	44	8.3	8.2	11	50	**14.035.30**
14.035.36	35	19	44	10.3	8.2	11	50	**14.035.30**
14.035.50	50	20	53	8.3	9.5	13	20	**14.035.30**
14.035.51	50	20	53	10.3	9.5	13	20	**14.035.30**
14.035.70	70	22	57	10.5	11.2	14.2	20	**14.035.30**
14.035.71	70	22	57	13.2	11.2	14.2	20	**14.035.30**
14.035.90	95	26	57	13.4	13.4	16.4	20	**14.035.30**
14.035.91	95	26	58	15	13.4	16.4	20	**14.035.30**



Crimping tool

To press power lugs onto electrical cables

Code	Model	For pressing lugs mm
14.035.30	professional	10/120

Professional crimping tool + cable stripper

For any type of insulated or non insulated terminal and any PVC-, rubber- or silicon-coated cable.

Code	For cables mm²	Pliers length mm
14.184.40	0.2 - 6	205

Professional crimping tool

Crimping tool with interchangeable dies. Ergonomic antislip handle.

Code	Description
14.184.01	Tool only for 0.5- to 6- mm² lugs
14.184.02	Die kit for 0.5- to 6- mm² insulated lugs
14.184.03	Die kit for 0.5- to 6- mm² heat-shrinking connectors

Head-head power joint

Made of high conductivity tin-plated copper

Code	Cable section mm²	Joint Length mm	Code	Cable section mm²	Joint Length mm
14.036.06	4/6	25.5	**14.036.35**	35	40.5
14.036.10	10	30	**14.036.50**	50	40.5
14.036.16	16	32.5	**14.036.70**	70	45.5
14.036.25	25	35.5	**14.036.95**	95	50.5

► Groundplates and accessories

Groundplate mass plate equipped with nuts and bolts

Made of **porous bronze**, essential to acquire an appropriate mass to install Loran, GPS, Navigators, radio-telephones SSB and to cut down radio interferences.

Code	Type	Equal to copper mass m^2	⟷ mm
29.630.01	Standard	1.5	155x51x13
29.630.02	Giant	3.45	300x80x13
29.630.00	Medium	2	205x64x13

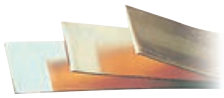


Plate made of galvanized copper

Type-approved size by **RINA** standards, size 2x20 mm, suitable for connections among them and to various **ground cables**.

Code	Bar size m
14.392.00	2.10

Tin-plated copper plait

Flexible plait for ground cables.

Code	Section mm^2	Roll m
14.393.00	10	25

► Terminal boards and shunts

Watertight electrical shunt box

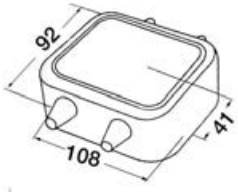
Made of bakelite. Easily removable cover for inspection. Fitted with terminal board.

Code	Material	Input	Clamps	⟷ mm
14.240.01	black plastic	3 (2 medium,1 small)	8 (4+4)	76x127x45

Teebox watertight junction box

IP67 For fixed installation. Easy to inspect and reusable.

Code	Poles	Max A	Cable section mm^2	Cable Ø mm	⟷ mm
14.373.03	3	16	0.5 - 1.5	2.5 - 9.5	70x82x20



8 pole terminal board, 14A, 100% watertight

Clear polycarbonate cover, **salt water-resistant rubber** body; ideal for bilge connections or for use in engine rooms.

Code	Poles	Max A	⟷ mm
14.241.10	8	14	108x92x41

Terminal board made of Bakelite, high-insulated model

Fitted with **nickel plated brass** terminal clamps. Separators to avoid accidental contacts.

Code	N. of terminals	A	⟷ mm
14.206.21	10	20	130x30x15
14.206.25	4	20	65x30x15
14.206.27	6	20	85x30x15

Electrical cables terminals

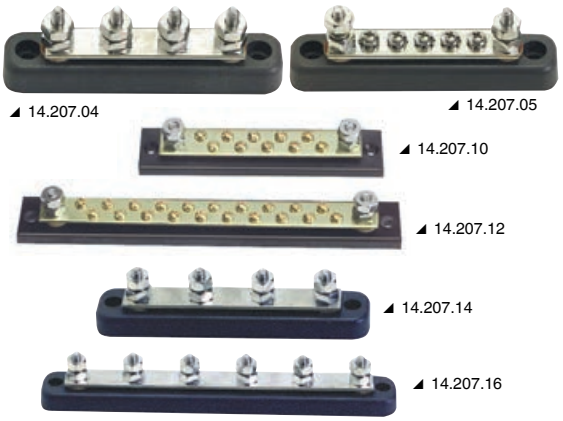
Made of **black plastic**, fitted with clear protection cover.
Separators for unwanted contacts, **nichel-plated brass** screws and terminals.

Code	N. of terminals	A	⟷ mm
14.206.35	4	20	50x23
14.206.37	6	20	70x23
14.206.41	10	20	137x32
14.206.47	6	30	90x30
14.206.51	10	30	138x30

Bus-Bar electric terminal board

High insulating capacity **plastic** base; **nickel-plated cooper** support bar, **stainless steel** screws and nuts. Volt 12/48.

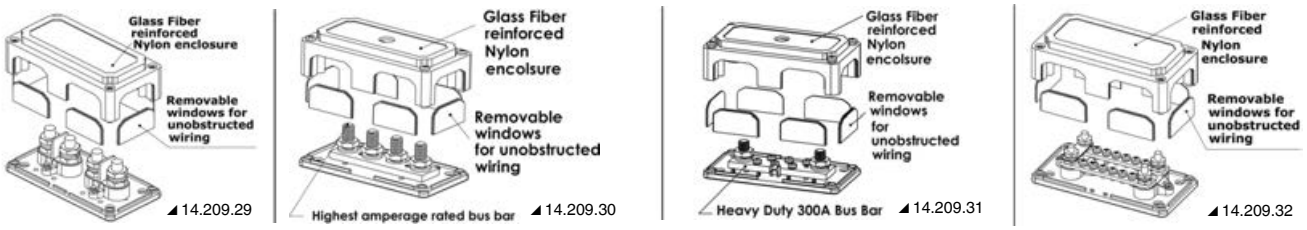
Code	Shunt terminals mm	Power terminals mm	Base mm	A continuous capacity	Cover
14.207.04	-	4x5	107x22	100	**14.208.04**
14.207.05	5x4	2x5	107x22	100	**14.208.04**
14.207.10	10x4	2x6	145x31	150	**14.208.10**
14.207.12	20x4	2x6	225x31	150	**14.208.20**
14.207.14	-	4x6	152x32	150	**14.208.24**
14.207.16	-	6x6	230x32	150	**14.208.26**
14.207.18	6x5	2x8	153x38	250	**14.208.10**
14.209.10	12x5	2x8	201x38	250	**14.208.30**
14.209.19	-	4x8	153x38	250	**14.208.25**
14.209.20	-	4x8	201x38	250	**14.208.30**
14.209.21	-	4x10	178x51	600	**14.208.31**
14.209.22	-	8x10	289x51	600	**14.208.32**



Heavy Duty Bus-Bar Terminals

Made of nylon/fibreglass. The cables can feed through all four sides.

Code	volt	Shunt terminal mm	Power terminal mm	Base mm	Range A
14.209.29	12/24	-	4x10 separate	138x69	200
14.209.30	12/24	-	4x10	138x69	300
14.209.31	12/24	6x5	2x10	138x69	300
14.209.32	12/24	12x4	4x6	138x69	100

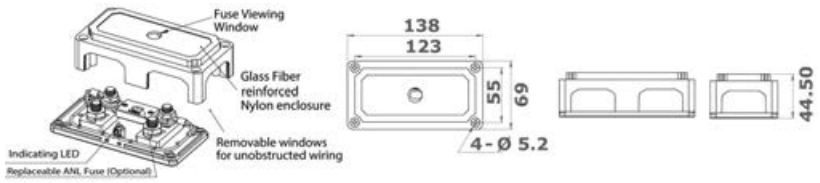


ANL fuse holder, high performance

Made of nylon/fiberglass. Fitted with LED indicator for fuse state (it lights up when the fuse burns out) and upper slot for visual check. Matching fuses 14.100.xx.

Code	Description	A max	Contact Ø mm	⟷ mm
14.100.40	Single ANL fuse holder	300	10	138x69x44.5 single
14.100.39*	Double ANL fuse holder	750	10	138x69x44.5 single

* *with dual terminal board*



► Fuses and fuse holders

36 assorted blade fuses

5 A to 30 A.

Code	ORDER BY BOX
14.004.00	6 x 5 A balde fuses; 9 x 10 A blade fuses; 9 x 15 A blade fuses; 6 x 20 A blade fuses; 6 x 30 A blade fuses.

Assorted glass fuses

From 1A to 20A.

Code	ORDER BY BOX
14.153.00	24 fuses 5x20 mm (6 x 1A; 6 x 2A; 6 x 5A; 6 x 10A), 24 fuses 6.3x32 mm (6 x 5A; 6 x 10A; 6 x 15A; 6 x 20A).

Glass fuses for instruments

Rapid-action glass body. Silver-plated copper contacts. Rated voltage: up to max 250V.

Code	⟷ mm	A	ORDER BY BOX
14.152.05	6.3x32	5	100
14.152.10	6.3x32	10	100
14.152.16	6.3x32	15	100
14.152.20	6.3x32	20	100

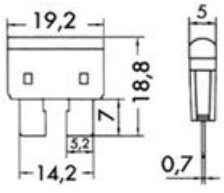
Code	⟷ mm	A	ORDER BY BOX
14.151.01	5x20	1	50
14.151.02	5x20	2	50
14.151.05	5x20	5	50
14.151.10	5x20	10	50

Standard blade fuses

Assorted colours depending on their amperage. Rated voltage: max 32V.

Code	A	ORDER BY BOX
14.004.10	5	100
14.004.30	10	100
14.004.40	15	100

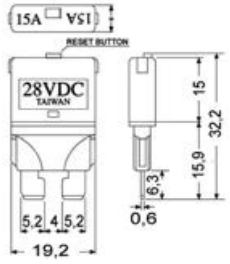
Code	A	ORDER BY BOX
14.004.50	20	100
14.004.70	30	100



Standard blade fuses with warning LED light

The LED lights up when the fuse burns out.

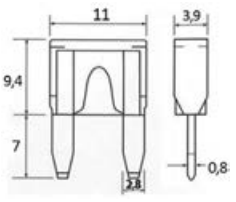
Code	A	ORDER BY BOX
14.003.05	5	50
14.003.10	10	50
14.003.15	15	50
14.003.20	20	50
14.003.30	30	50



Resettable blade fuses, 12/24 V

Standard resetting by pushing the manual head button.

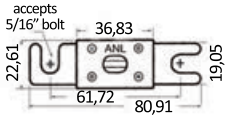
Code	A	ORDER BY BOX
14.005.01	5	5
14.005.03	10	5
14.005.04	15	5
14.005.05	20	5
14.005.06	30	5



Small blade fuses

Recommended to optimize spaces.

Code	A	ORDER BY BOX
14.006.05	5	100
14.006.10	10	100
14.006.15	15	100
14.006.20	20	100
14.006.30	30	100



ANL Gold Plated fuses

High capacity. For installation on control propellers and windlasses.

Code	A	€ PACKAGE
14.100.42	50	5
14.100.44	100	5
14.100.52	130	5
14.100.46	150	5
14.100.47	200	5

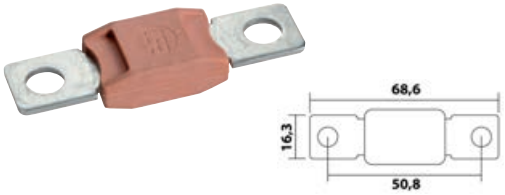
Code	A	€ PACKAGE
14.100.48	250	5
14.100.49	300	5
14.100.53	325	5
14.100.50	400	5
14.100.51	500	5

MEGA high-capacity standardized fuses

For voltage up to 32V DC. Maxi fuse for high-capacity electric appliances. It protects the circuit safety.

Code	A
14.099.44	100
14.099.45	125
14.099.46	150

Code	A
14.099.47	200
14.099.48	250
14.099.51	500



Flying fuse holder

For 6.3x32-mm glass fuses.

Code	Description
14.115.15	Watertight fuse holder designed for glass fuses size 6x32 mm
14.182.00	'In-line' flying fuse box for glass fuses size 6x32 mm

Fuse holder, built-in model

Code	For glass fuses size mm
14.145.00	6.3x32

PVC fuse holder, watertight model

For standard blade fuses.

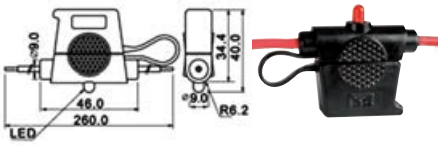
Code	Max capacity A
14.115.17	30

Fuse holder, watertight model

High quality thermal-rubber, for standard blade fuses. Fitted with 2 x 130-mm cables, section 4-mm^2 section. 20-Amp max capacity.

Code	Max capacity A	ORDER BY BOX
14.115.19	35	10

Fuse holder with warning LED, watertight model



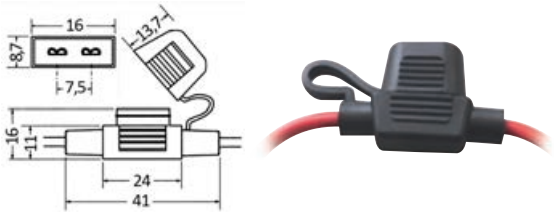
High quality, for standard lamellar fuses. 2 x 110-mm cable capacity, 3-mm^2 section.

Code	LED	Max capacity A	ORDER BY BOX
14.115.20	1	30	10

Watertight fuse holder for small fuses

High quality fuse holder for small blade fuses. Fitted with two cables (150 mm each, 3,3 mm^2 section).

Code	Capacity A	ORDER BY BOX
14.115.21	30	10



Glass fuse holder box

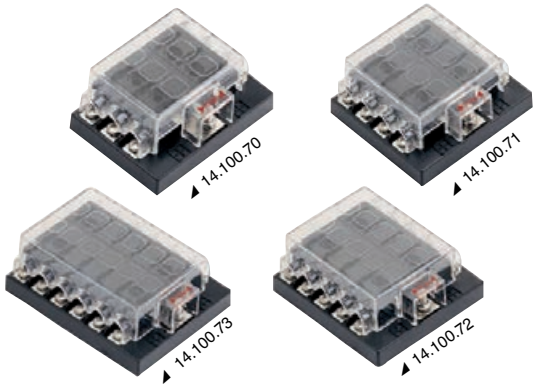
For standard 6.3x32-mm fuses. Fitted with blown fuse LED light.
Snap cover and table with self-adhesive symbol stickers.

Code	Fuse housings	⟷ mm
14.181.07	6	130x90x36

Standard blade fuse holder box with common positive

Made of polycarbonate with tinplated copper contacts.
Transparent cover with labels for single uses.
150A max load for each block. Screw terminals.

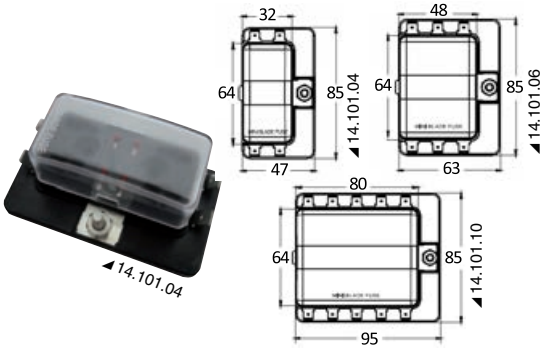
Code	Fuse housings and contacts	⟷ mm
14.100.70	6	92x66
14.100.71	8	92x83
14.100.72	10	92x99
14.100.73	12	92x116



Blade fuse holder, waterproof

Semi built-in box with rubber seal, housings for 10 blade fuses, rear outlet, 6 spare fuses, LED light for burnt out fuses.

Code	Volt	No of outlets	Max A for each outlet	⟷ mm
14.100.65	12/24	10	25	125x90



Fuse holder box for small fuses

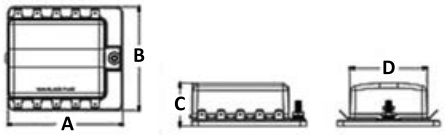
Flame-retardant black PBT case and clear polycarbonate cover.
Tin-plated copper blade contacts, 6.3-mm standard size.
Warning LED light in case of interrupted fuse.

Code	V	No. of outputs	Max capacity A for single fuse	Max capacity A	⟷ mm
14.101.04	12/24	4	25	100	85x47x35 H
14.101.06	12/24	6	25	100	85x63x35 H
14.101.10	12/24	10	25	100	85x95x35 H

Fuse holder box with warning lights

For standard lamellar fuses. Equipped with LED warning light for cut off fuse.

Code	Fuse housing	Warning LED	Max total capacity A	Max capacity for single fuse	⟷ mm			
					A	B	C	D
14.102.70	4	4	100	30	47	85	36	63
14.102.71	6	6	100	30	63	85	36	63
14.102.72	10	10	100	30	95	85	36	63



OSCULATI

Fuse holder box with transparent snap cover, made of polycarbonate

Silver-plated phosphor bronze connections. It fit regular lamellar fuses.
Admissible voltage: 12/24 volt. Total max amperage of the box: 100 Amps.
Max amperage for each fuse: 20 Amps. 2 spare fuse holders on the cover.

Version for standard fuses	Version for resettable fuses 14.005.xx or similar (ETA, COOPER, etc.)	Fuse housing	Contacts (-)	(-) Common	(+) Common	⟷ mm
14.183.06	**14.183.26**	6	6	1	1	125x85
14.183.12	**14.183.32**	12	12	1	1	165x85

Complete with 6/12 writable stickers to mark the single uses

OSCULATI

High-capacity fuse holder

Made of thermoplastic with removable clear cover.

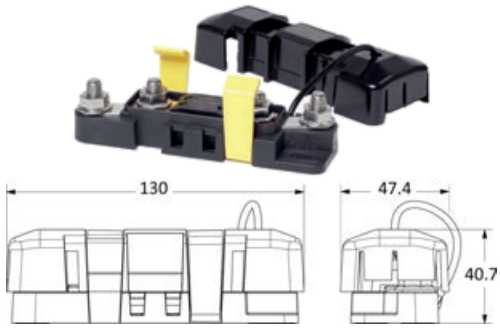
Code	Base mm	For fuses
14.100.41	95x42	ANL 14.100.xx
14.099.41	95x42	MEGA 14.099.xx

Mega LITTELFUSE® watertight fuse holder with protection cover

IP67

Designed for power cables to enter at any angle.
Several fuse holders can be mounted in line. Stainless steel part.
In compliance with ISO 8846.

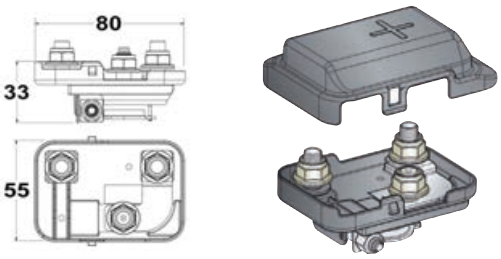
Code	Max applicable power of Mega fuses	⟷ max cord
14.100.25	500 A	105 mm^2



Power distribution fuse box for MEGA fuse

Thermoplastic box with lid to be used on the positive pole of the battery
To be matched with a MEGA fuse. 200A max capacity.

Code	⟷ mm	Fuses to be used
14.100.38	80x55x33(H)	14.099.44/45/46/47



Fuse holder boxes

OSCULATI

Fit for regular blade fuses (ATP - ATO - ATC). Equipped with control LED on each fuse.
12/24V voltage. 100A max total load. 20A max load for each fuse.
Stickers with several signs included in the package.
Use the basic modules 1 and 2 to arrange the combinations shown and many others.
The 100A max total load is the sole limit.

Code	Type	Fuse housing	Contacts	⟷ mm
14.182.01	basic module	6-unit fuse holder	faston	86x78x41
14.182.02	basic module	12-unit negative bus bar	faston	86x57x41

◢ 14.182.01

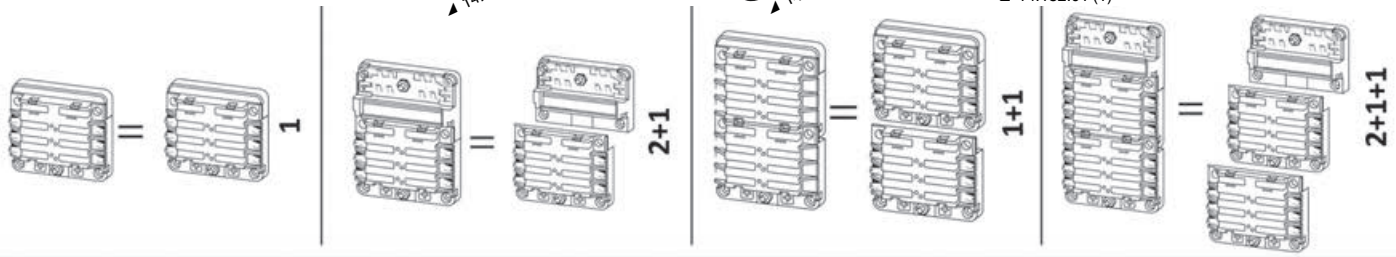
◢ 14.182.02

◢ 14.182.01+14.182.02

◢ 14.182.01+14.182.02

◢ 14.182.01 (1)

◢ 14.182.02 (2)



composition examples / esempi di composizione

Watertight blade fuse holder box

It can be used with standard, mini and micro fuses. Clear lid and watertight seal. Bayonet terminals.

Code	Fuse housings	Base mm	Max load A	Max load for single fuse
14.100.31	4	85x31	30	15
14.100.32	6	100x31	45	15
14.100.33	8	120x31	60	15
14.100.34	10	140x31	90	15

◢ 14.100.31

◢ 14.100.31

Watertight blade fuse holder with deep lid

It can be used with the following fuses: **standard, mini, micro, standard resettable, mini resettable et micro resettable.**

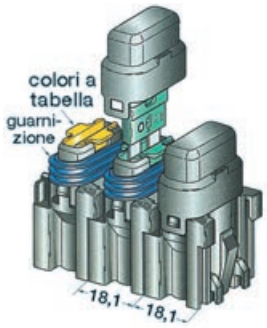
Code	Fuse housings	Base mm	Max load A	Max load for single fuse
14.100.81	4	85x31	30	15
14.100.82	6	100x31	45	15
14.100.83	8	120x31	60	15
14.100.84	10	140x31	90	15

◢ 14.100.81

◢ 14.100.81

► “Splash-Proof” modular fuse holder.

Fits blade fuses models 14.004.10/30/40/50/70. A fuse holder is composed by 1*14.117.XX + 2*14.118.XX + 1*14.116.01

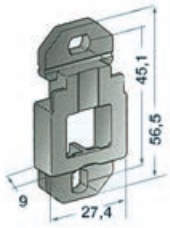


Fuse holder with cover, modular model

Built-in mounting. Silicone seal and colored secondary-Lock for amperage identification, standard blade fuses. For use with blade fuse 14.004.10/30/40/50/70.
A complete fuse holder consists of: 1*14.117.XX + 2*14.118.XX + 1*14.116.01.

Code	Fuse box A
14.117.01	5
14.117.02	10
14.117.03	15
14.117.04	20
14.117.05	30

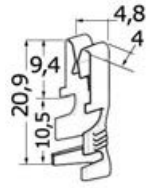
Support base, bulkhead-mounting model



For fixing modular fuse holders. Splashproof.

Code	For mountin with	ORDER BY BOX
14.116.01	2 screws	10

Contacts made of tin-plated brass



To seam on cables and to connect to the fuse holder (2 per each fuse).

Code	Contacts for cables mm	ORDER BY BOX
14.118.01	1/2.5	100
14.118.02	2.5/6	100

► Connectors and "Faston"

Faston and lug kit

It comes in a box with dividers.

Code	Pcs.	Package
14.303.18	175	dividing box

14.800.01/02

14.800.03/04

Eyelets pre-insulated with heat-shrinkable sheath

Watertight.

Code	A mm	B mm	C mm	D mm	Bore mm	Cable mm^2	ORDER BY BOX
14.800.01	4.3	8.5	28	4.9	4.3	1.2/2.5	100
14.800.02	5.3	9.5	29	4.9	5.3	1.2/2.5	100
14.800.03	5.3	9.5	34	6.4	5.3	2.5/6	50
14.800.04	6.4	12	37	6.4	6.4	2.5/6	50

Pre-insulated eyes

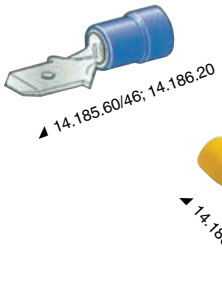
Code	Hole mm	Cable mm^2	ORDER BY BOX
14.185.70	3.2	1/2.5	100
14.185.71	4.3	1/2.5	100
14.185.72	5.3	1/2.5	100
14.186.31	5.3	2.5/6	100
14.186.32	6.3	2.5/6	100

Pre-insulated eyes

Code	Opening mm	Cable mm^2	ORDER BY BOX
14.186.61	4.3	1/2,5	100
14.186.62	5.3	1/2,5	100
14.186.71	5.3	2,5/6	100
14.186.72	6.4	2,5/6	100

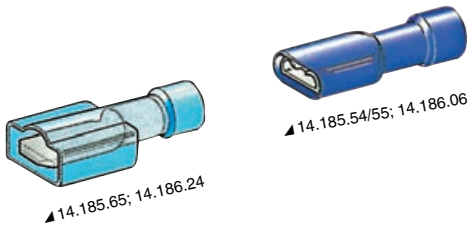
Faston pre-insulated blade connectors (4.7 mm, 6.3 mm, 9.5 mm)

Code	Type	Cable mm^2	Opening mm	ORDER BY BOX
14.185.45	Female	1/2.5	4.7	100
14.185.46	Male	1/2.5	4.7	100
14.185.50	Female	1/2.5	6.3	100
14.185.60	Male	1/2.5	6.3	100
14.186.11	Female	2.5/6	6.3	100
14.186.20	Male	2.5/6	6.3	100
14.186.30	Female	2.5/6	9.5	50



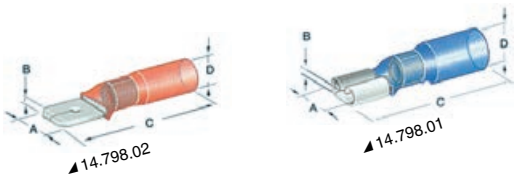
Fully pre-insulated 4.7- and 6.3-mm Faston terminal

Code	Type	Cable mm^2	Opening mm	ORDER BY BOX
14.185.54	Female	1/2.5	4.7	100
14.185.55	Female	1/2.5	6.3	100
14.186.06	Female	2.5/6	6.3	100
14.185.65	Male	1/2.5	6.3	100
14.186.24	Male	2.5/6	6.3	100



Faston terminals, pre-insulated watertight heat-shrinkable 6.3-mm size

Code	A mm	B mm	C mm	D mm	Type	Cable mm^2	ORDER BY BOX
14.798.01	6.35	0.8	28	4.9	Female	1.2/2.5	100
14.798.02	6.35	0.8	28	4.9	Male	1.2/2.5	100



Piggy Back female faston, pre-insulated 6.3-mm size

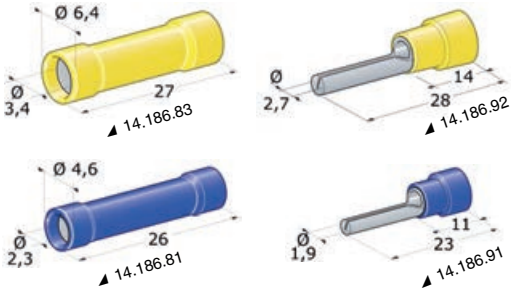
Code	Cable mm^2	Can be used with Faston products	ORDER BY BOX
14.186.26	1/2.5	**14.185.50; 14.185.60; 14.185.55**	50

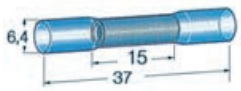
Cylindrical terminals, pre-insulated

Code	Type	Cable mm^2	Ø mm E	Ø mm i	ORDER BY BOX
14.186.43	Male	1/2.5	4	-	100
14.186.44	Female	1/2.5	4	-	100
14.186.47	Male	2.5/6	5	3.86	100
14.186.48	Female	2.5/6	5	4.85	50

Male plugs + female connections, pre-insulated

Code	Type	Cable mm^2	ORDER BY BOX
14.186.81	Female	1/2.5	100
14.186.83	Female	2.5/6	50
14.186.91	Male	1/2.5	100
14.186.92	Male	2.5/6	100





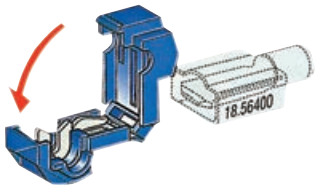
Pre-insulated heat-shrinkable tube for sealing joints, 2 cables

Code	Cable mm²	ORDER BY BOX
14.186.50	1/2.5	100
14.186.51	2.5/6	50

Quick splice terminals for switches, joints and terminations

Nylon body, **tin-plated brass** perforating contact. Suitable for flexible and rigid conductors.

Code	For cable size mm²	ORDER BY BOX
14.100.91	1/2.6	100
14.100.92	2.6/6.6	50



T quick splice terminals

Code	Cable size mm²	ORDER BY BOX
14.100.97	1/2.5	100

Crimping joints, watertight

Includes a crimping cylinder covered with a heat-shrinking sheath **and an internal adhesive**.
Thanks to the adhesive, once it's heat shrinked it gives a resistant fully watertight junction.

Code	Cable size mm²		Color	ORDER BY BOX
	min	max		
14.128.01	0.5	1	red	100
14.128.02	1.5	2.5	blue	100
14.128.06	3	6	yellow	100

Soldering joints, watertight

Composed of a heat-shrinking sheath with an inner tin ring and two adhesive rings.
Once is heat shrinked it provides: an electric connection, sealing of the two cables and provides a fully watertight welded join; very easy to fit with the professional heater model 14.122.12 or with a normal lighter.

Code	Total mm²		Color	ORDER BY BOX
	min	max		
14.124.02	0.8	2	red	100
14.124.04	2	4	blue	100
14.124.06	4	6	yellow	100

Terminal caps for multiple joints, watertight

Electrical joints with insulated heads and **watertight** sealings can be easy done with just one operation (using the industrial heater model 14.122.12 or with a normal lighter); the connection is made through soldering, giving a reliable electrical connection, even for numerous small cables.

Code	Total mm²		Color	ORDER BY BOX
	min	max		
14.126.04	2	4	Red	100
14.126.08	3.5	8	Blue	100
14.126.12	7.5	12	Yellow	100

◢14.155.01 ◢14.155.02 ◢14.155.03

Joints for electric cables, made of plastic

Code	A mm	B mm	C mm	ORDER BY BOX
14.155.01	14.5	8.6	6.5	100
14.155.02	17.2	10	7.9	100
14.155.03	22.2	11.1	9.1	100

► Cable sheaths, cable trays and accessories for cable marking

Cabling coil made of white polyethylene

Electric cable protective belts, entry and exit at any point.

Code	wiring Ø mm	Roll m
14.140.01	2-15	50
14.140.02	7-40	25
14.140.03	13-70	25

Cavoflex sheath for electric cables

Spiral PVC sheath, smooth inside. Shock-proof and flame-retardant

Code	Color	inner Ø size mm	Ø outer mm	Roll m
14.144.16	Light grey	16	20.7	30
14.144.25	Light grey	25	30.6	30
14.144.32	Light grey	32	38	30

Joint between Cavoflex cable sheath and a box or bulkhead

Code	nominal Ø size mm
14.144.21	16
14.144.22	25

Hose clamp

Code	Description
14.144.01	Universal adjustable pipe holder strap; for rigid or flexible pipes. 16-32 mm beam Ø.

Plaited sheath

Made of grey polyester, suitable to gather and protect electric cables.
One or more cables can be let out by opening the mesh at any point.

Code	Ø mm	Roll m
14.134.10	10	100
14.134.15	15	50
14.134.20	20	50
14.134.25	25	50
14.134.30	30	50

Protective sheath for electric cables

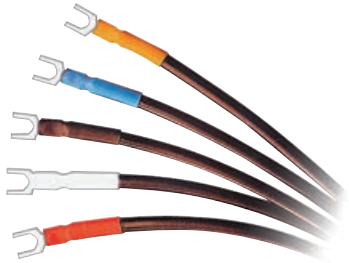
Black PVC protective sheath for electrical cables, pre-inflated for easy cable positioning.

Code	inner Ø mm	Thickness mm	Roll m
14.132.04	4	0.3	200
14.132.06	6	0.4	200
14.132.08	8	0.4	200
14.132.10	10	0.5	200

Code	inner Ø mm	Thickness mm	Roll m
14.132.12	12	0.5	100
14.132.20	20	0.8	100
14.132.26	26	0.9	50
14.132.30	30	1	50

Heat-shrinkable sheath made of polyolefin

Ideal for **insulating electrical lugs** or to **trim splices on ropes**. Maximum contraction ratio of **2:1**.



Code	inner Ø starting size mm	Color	Roll m
14.130.03	6.4	Black	10
14.130.04	9.5	Black	10
14.130.05	12.7	Black	10
14.130.06	19.1	Black	10
14.130.07	25.4	Black	10
14.130.08	38	Black	5

Heat-shrink sheaths made of reticular polyolefin, watertight

Equipped with internal thermo-shrinkable adhesive allowing to wrap up and waterproof the internal components. 3:1 shrinkage rate. Black colour.

Code	Internal expanded Ø mm	Internal shrinked Ø mm	Shrinked wall thickness mm	Box pcs m
14.131.03	6	2	1.1	12
14.131.04	9	3	1.3	10
14.131.05	12	4	1.7	8
14.131.06	18	6	2	5
14.131.07	24	8	2.5	3

Electric heater

Two-speed heater for heat-shrink sheath treatment. 400 l/min air flow.

Code	volt	watt
14.122.12	220	1500

Gas-powered multipurpose tool

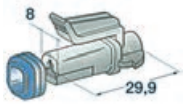
Heater/soldering tool for heat-shrinking sheaths and blade connectors in case the power supply is not available. Lighter-like gas bottle refill.

Code	Duration	Flame temperature	9
14.122.13	30 minutes	1300°	60

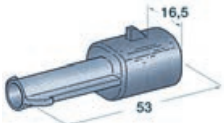
Self-adhesive numbers and letters, black on white background, 3-mm size

Designed to label electrical cables (obligatory identification labelling, see ISO 10133 point 7.8).

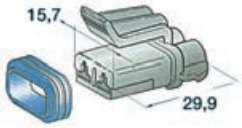
Code	ORDER BY BOX
14.148.01	320 numbers + 272 letters



◢ 14.235.10



◢ 14.235.20

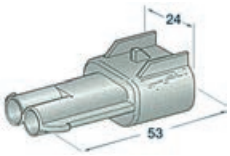


◢ 14.235.30

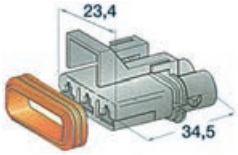
Watertight connectors made of plastic

Watertight connectors complying with the ISO 15083 standards.
Example of 2-pole connector: 1x14.235.30 / 1x14.235.40 / 2x14.236.45 / 2x15.236.46 / 4x14.236.48.

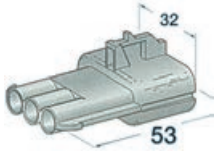
Code	Version	No. of poles	Brass male connector	Brass female connector	ORDER BY BOX
14.235.10	female	1	-	14.236.46	5
14.235.20	male	1	14.236.45	-	5
14.235.30	female	2	-	14.236.46	5
14.235.40	male	2	14.236.45	-	5
14.235.50	female	3	-	14.236.46	5
14.235.60	male	3	14.236.45	-	5



◢ 14.235.40



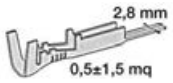
◢ 14.235.50



◢ 14.235.60

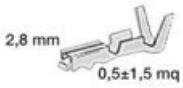
Male connection made of brass

Code	For fitting on	ORDER BY BOX
14.236.45	14.235.20; 14.235.40; 14.235.60	50



Female connection made of brass

Code	For fitting on	ORDER BY BOX
14.236.46	14.235.10; 14.235.30; 14.235.50	100



Silicone nipple for watertight closure

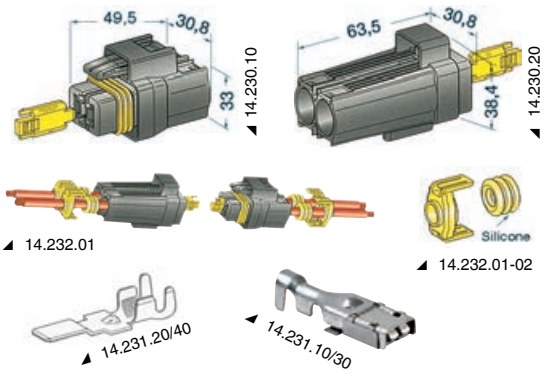
Code	For cable size mm^2	ORDER BY BOX
14.236.48	0,5/1,5	100

► Watertight connectors for cables up to 10 mm

Watertight connectors

A complete connector consists of item numbers: 14.230.10+14.230.20 + 2 Faston male terminals 14.231.20/40 + 2 Faston female terminals 14.231.0/30 + 4 inserts with seals 14.232.01/02.

Code	Version	For cable size mm^2
14.230.10	Connector	-
14.230.20	Connector	-
14.231.10	Faston female	4/6
14.231.20	Faston male	4/6
14.231.30	Faston female	8/10
14.231.40	Faston male	8/10
14.232.01	Plug with gasket	4/6
14.232.02	Plug with gasket	8/10



► BULGIN BUCCANEER plugs and sockets

RINA type-approved, managed polarity, 100% watertight, IP 68 protection degree. Fibreglass-reinforced nylon body, nickel-plated brass contacts, watertight screw-in cap, type-approved in compliance with NATO military standards. Operating temperature range - 20°+ 70°.

Male contact plug

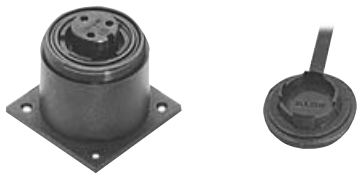
Flying plug to pair with a female contact socket.

Code	Poles	Capacity
14.350.02	2	10 A
14.350.03	3	10 A
14.350.09	9	5 A

External socket, female contacts

Includes watertight cover.

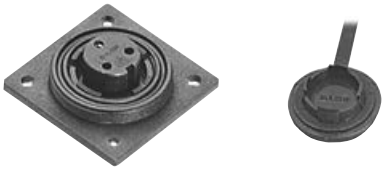
Code	Poles	For coupling to
14.360.02	2	14.350.02
14.360.03	3	14.350.03
14.360.09	9	14.350.09



Built-in socket, female contacts

Includes watertight cover.

Code	Poles	For coupling with
14.370.02	2	14.350.02
14.370.03	3	14.350.03
14.370.09	9	14.350.09



► Watertight deck plugs and sockets

Watertight plug

Fine built, maximum reliability, **made of chromed brass.**

Code	Socket + plug	A max	Ø base mm
14.187.02	2 poles	10	40
14.187.03	3 poles	10	40
14.187.04	4 poles	10	40
14.387.02	2 poles	20	46
14.387.03	3 poles	20	46
14.387.04	4 poles	20	46

Watertight plug made of polycarbonate and fitted with brass contacts

IP65 Fine built, maximum reliability.

Code	A max	Socket + plug	Base Ø mm
14.470.02	3 A	2 poles	40
14.470.03	3 A	3 poles	40
14.470.04	3 A	4 poles	40
14.471.02	5 A	2 poles	49
14.471.03	5 A	3 poles	49
14.471.04	5 A	4 poles	49

Culversterns flying plug

Watertight plug made of rubber and fitted with brass contacts.

Code	Poles	Max A	Version
14.188.02	2	10	Male + female
14.188.03	3	10	Male + female
14.188.04	4	10	Male + female

2-pole flying plug/socket

IP68 IP68 plug/socket micro connector.

Code	Poles	Max A	Cable section mm^2	Cable Ø mm	⟷ outside mm
14.374.02	2	10	0.25-1.5	1x(3-8) / 2x(1.9-2.5)	Ø14 x 90

2/3/4-pole flying plug/socket

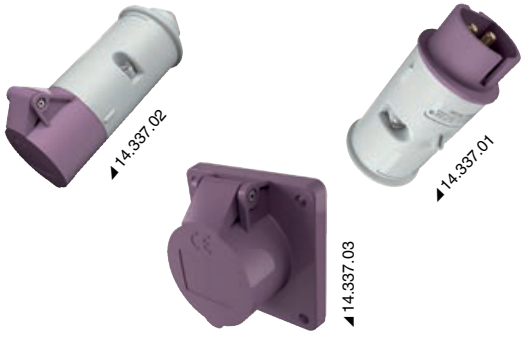
IP68 IP68 plug/socket connection.

Code	Poles	Max A	Cable section mm^2	Cable Ø mm	⟷ outside mm
14.371.04	2/3/4	17.5	0.5 - 4	3x(2-4) / 4x(2-4)	Ø 23 x 113

2/3/4-pole plug/socket for panel or bulkhead mounting

IP66 IP66 plug/socket connection.

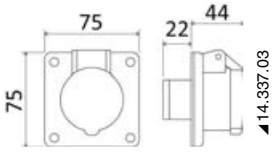
Code	Poles	Max A	Panel thickness mm	Cable section mm^2	Cable Ø mm	⟷ outside mm
14.372.04	2/3/4	17.5	1-7	0.5 - 4	1x(4-12) 2x(2-4)	Ø 23



12/24 V socket/plug

IP44 With screw terminals. Cable crush protection. Standard contacts.

Code	Poles	Max A	Type
14.337.01	2	16	Plug
14.337.02	2	16	Socket
14.337.03	2	16	Socket to be mounted flush with the wall



► Fairleads and glands

SCANSTRUT vertical cable seals

They assure perfect watertightness (IP-X7) for cable passing.
They allow the cables to pass without disassembling possible end connectors.
Edgeless shape for higher resistance and to avoid possible blocks for the line.
Threaded holes for easy assembling and numberless disassemblings.
Every item is supplied with a choice of pre-bored or to-be-bored seals for the utmost easiness and flexibility of use. Packed in convenient display Blister.

Material			Cable Ø mm	Connector B max Ø mm	A Ø mm
black plastic	grey plastic	SS			
-	14.171.02*	-	2-6	6	30
14.170.02	14.172.02	14.173.02	2-8	16	39
14.170.04	14.172.04	14.173.04	4-9	21	49
14.170.09	14.172.09	14.173.09	9-14	21	49
14.170.10	14.172.10	14.173.10	9-14	30	59
-	-	14.173.12	12-15	40	69

* *Satin-finish version.*

◢ 14.173.xx

SCANSTRUT

◢ 14.171.02

◢ 14.170.xx

◢ 14.172.xx

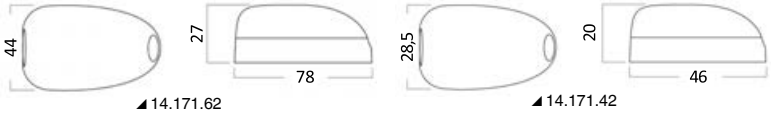
SCANSTRUT horizontal stuffing box

Made of fiberglass-reinforced nylon. IPX7 watertight.
Supplied with pre-drilled seal and seal to be drilled. Display blister pack.
No need of sealant or silicone for a sleek, easy-to-fit installation.
The double cable seal is perfect for routing two solar panels cables.

Code	Model	Material	Cable Ø mm	⟷ mm
14.171.42	DS-H6	Plastic	2-6	46x28.5x20
14.171.62	DS-H10	Plastic	6-10	78x62x27
14.176.01 New	DS-HD6	Plastic	2-5/6	63x54x22

	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm	9 mm	10 mm	11 mm	12 mm	13 mm	no hole
DS-H6	✓	✓	✓	✓	✓								✓
DS-HD6				✓✓	✓✓								✓✓
DS-H10					✓	✓	✓	✓	✓	✓	✓	✓	✓

Please note: ✓ = one bung



◢ 14.171.62 ◢ 14.171.42

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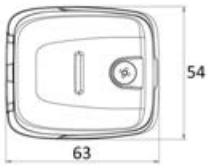
◢ 14.171.42

◢ 14.171.62

◢ 14.176.01



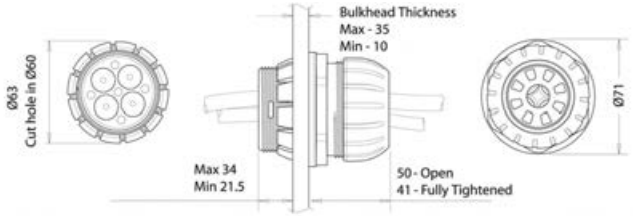
◢ 14.176.01

Watertight bulkhead fairlead for large cables

IP67

To let cables through bulkheads.
High-resistance moulded nylon with inside overmoulded seal. Easy to install.

Code	Material	Ø mm	For cables
14.175.04	Plastic	71	Up to 4 cables, 7- to 15-mm Ø
14.175.10	Plastic	71	Up to 10 cables, 5- to 7-mm Ø



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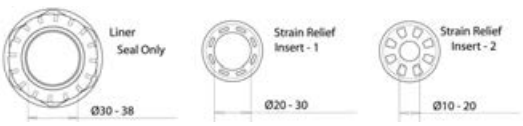


SCANSTRUT

SCANSTRUT multiple cable stuffing box

Designed for multiple cables having different diameter (up to 15mm), it offers perfect watertightness (IP-X7) for cable passing and lets the cable pass without disassembling end connectors, if any.
Made of hard anodized aluminium and fitted with seal to be bored.
Packed in convenient display blister.

Code	Material	Cable Ø mm	Connector B max Ø mm	⟷ mm
14.174.01	Aluminium	Up to 15	18	99x48

Fairlead gland

Made of watertight nylon, for electric cables.

Code	Ø base mm	Protrusion mm	For cable size mm
14.185.95	48	33	4-8
14.185.96	51	36	6-12

◢ 14.186.00/01/03

◢ 14.186.02

◢ Individual packages

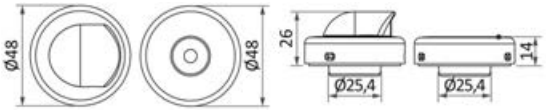
Fairlead gland to be fitted under the deck

Made of chromed brass, for cables to be fitted under the deck.

Code	Passage mm	ORDER BY BOX
14.186.01	6	10
14.186.00	8	10
14.186.03	10	10
14.186.02	12	1

◢ 14.186.14

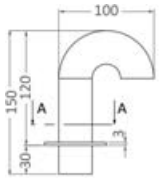
◢ 14.186.15



New Fairlead/gland made of nylon, fiberglass and stainless steel

They ensure perfect watertightness (IP67) for cable passing.
They allow the cables to pass without disassembling end connectors, if any.
Fiberglass-reinforced nylon body with AISI316 stainless steel plug.

Code	Ø base mm	Protrusion mm	Cable Ø mm	Cable mounting
14.186.14	48	14	3-14	vertical (in line)
14.186.15	48	14	3-8	lateral (@ 90°)



Elbow outlet

AISI 316

14.481.92 Made of polished AISI 316 stainless steel, designed for electrical cables, from mast base to inside cabin.

► Plugs, lighter jacks and accessories

OSCULATI

Power socket + plug made of black polycarbonate

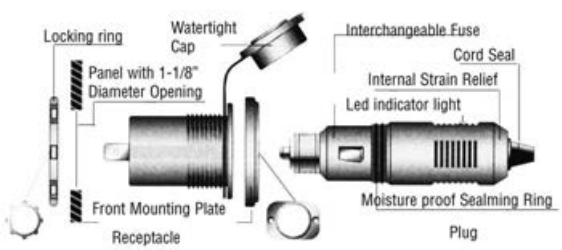
100% **water resistant**, either with protection cap closed or with lockable plug, equipped with a **special watertight collar** and a "lock-in" system that locks the plug by turning; designed for plug mounting with back screw nuts or two screw boards; suitable for lighters and cellular phones.

Code	Description
14.517.01	Socket + external mounting panel
14.517.02	Plub with fuse and red led light
14.517.00	Plug/socket kit 14.517.01+14.517.02

◢ 14.517.01

◢ 14.517.02

◢ 14.517.00



Marine lighter, 12 V

13.008.00 Made of **stainless steel** receptacle lighter/light; includes **charter light** on a knob with a separate switch.

Power socket

100% **water-proof**, with either the cap closed or when it is plugged in, fitted with a **special watertight collar and** a locking system that locks the plug by turning it; the socket can be mounted with a rear screw-nut or with a 2-screw board. Standard socket for lighters, cellular phones; includes a plastic fairing and a base washer, designed for wall or ceiling mounting.

Code	Body	⟷ mm mm	Plug OPTIONAL
14.517.06	white	80 x 65 x 43	**14.517.02**
14.517.07	black	80 x 65 x 43	**14.517.02**

Socket for cellular phones or lighters

14.518.00 Made of **stainless steel**, fitted with watertight cap. It can be mounted with 2 screws through the front panel or using a screw nut from the back of the instrument panel.

Double socket

Watertight double socket for plugs 14.517.02. Supplied with panel.

Code	⟷ mm
14.517.08	105x45

Dual USB port current plug

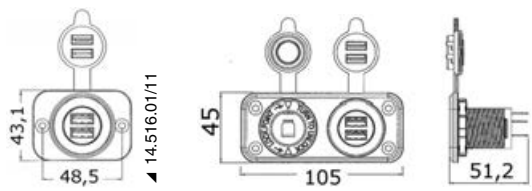
It matches any CARLINGSWITCH, Marina R and Marina TOP switch. It fits all types of frame 14.197.xx.

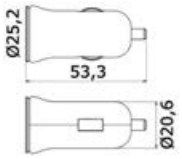
Code	Description	V	A	⟷ mm
14.195.60	Dual USB plug	12/24	2.1 + 1.0	49x25x51 (depth)
14.195.62 New	Standard USB plug + micro	12/24	2.4 + 3	49x25x40 (depth)
14.195.61	Dual USB plug + 5/30 V voltmeter	12/24	2.1 + 2.1	49x25x51 (depth)

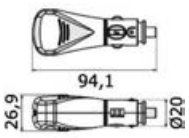
Lighter and/or USB socket

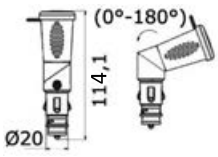
Made of nylon and fit with protection cap to make them waterproof. 12/24V input, 5V USB output.

Black	White	Description	A
14.516.01	**14.516.11**	Double USB socket, mounting with rear nut + panel	3.4
14.516.02	**14.516.12**	Lighter plug + double USB with panel	2.1
14.516.03	-	USB plug + body for flat mounting	2.1
14.516.04	-	Lighter plug + double USB + body for flat mounting	2.1





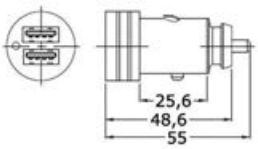




12/24V USB plugs

UBS connection to plug into standard current/lighter sockets.

Code	Description	V	Fuse + LED activation
14.517.10	Single USB with short-circuit and overvoltage protection, 1A polarity inversion	12/24	Yes
14.517.09	Double USB 2.5 A. For standard current plugs (type 14.517.01, 14.518.00, 14.517.08)	12/24	Yes
14.517.14	Double articulated USB, 3,1 A, with watertight cap, double lighter plug + Merit	12/24	Yes
14.517.15	Double USB with watertight cap (5V/2.1A)	12/24	Yes



Double socket

14.519.16 Designed to fit into socket 14.519.10; 14.519.12 or into a lighter socket (13.008.00), double connection; fitted with led light activation signal.

Extension spiral cable

14.507.00 3.60-m version with double male/female plug (lighter type).
Suitable for socket type **14.519.10; 14.519.12** and **13.008.00**, on the other side portable phones, lights, etc.

Digital voltmeter and sockets for recess mounting

With or without front panel.

Code	8/32V digital voltmeter	0/10A digital ammeter	Power outlet	Dual USB plug	A	Version
14.517.20	x					For recess fit
14.517.21	x		x			For recess fit
14.517.42	x			x	2.4 + 2.4	For recess fit
14.517.43	x		x	x	2.4 + 2.4	For recess fit
14.517.25	x	x				For recess fit
14.517.26	x	x	x			For recess fit
14.517.28	x	x	x	x	2.1 + 1.0	For recess fit

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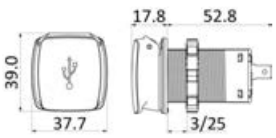


New SCANSTRUT Flip Pro USB-A and USB-C watertight sockets

Ultra-fast dual USB port (large and small) charger.
IPX4 waterproof with the cover closed. Supercompact footprint, it will charge up to 2 devices at a time.
Powerful charge (36W/12V - 60W/24V).

Code	V	Max current A	Mounting hole-Ø mm
14.195.80	12/24	6	29

Socket + USB cable (IPx6 watertight)

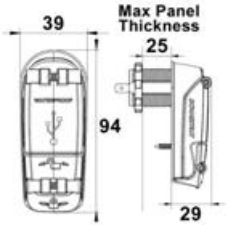
SCANSTRUT

Waterproof fast recharge double port USB.
It recharges up to two devices much faster than standard USB sockets.
Very low profile ideal for navigation.

Code	Description	volt	A	⟷ mm
14.195.67	**Dual USB socket**. AISI 316 SS metal parts, UV-resistant plastic parts, electric circuit fitted with anti-saline and anti-corrosion coating.	12/24	2 x 2.1	29x94
14.195.70	**2-m USB cable**. Stainless connectors with patented anti-corrosion protection. Special heavy-duty oil- and abrasion-resistant cable. For iPhone and iPad	12/24	5	-

◢14.195.70

◢14.195.70



◢14.195.67

◢14.195.67

◢14.195.67

◢14.195.67

ROKK watertight wireless battery charger

SCANSTRUT

The ROKK wireless IPX6 12/24V series (Qi certified) allow recharging mobile phones and tablets by simply placing them on the charger.
Designed for marine use, they are 100% watertight.
The two outdoor version feature an excellent anti-skid and UV-resistant surface.
3 versions are available depending on the installation mode the user prefers.

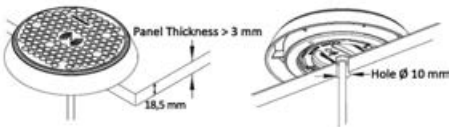
Input	Output	Dimensions	Cable
12/24 V	5W (5V, 1°) A	Ø 96 mm	30 cm

Code	Version	Description
14.515.01	Hidden	Hidden version for installation under the surface. A single anti-skid rings is visible to indicate the position
14.515.02	Surface	Flush version to be recessed into the cabinet
14.515.03	Bezel	Raised version, no need to be recessed into the cabinet

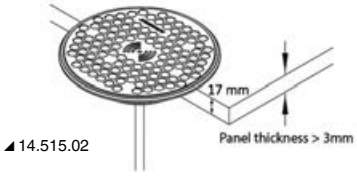
◢14.515.01

◢14.515.02

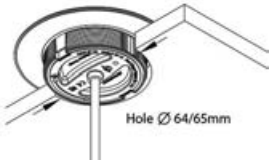
◢14.515.03

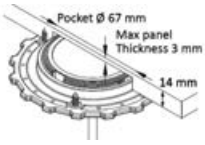


◢14.515.03



◢14.515.02





◢14.515.01

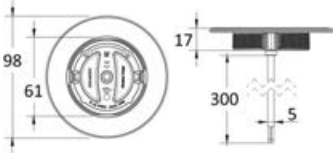
ROKK wireless SUB watertight battery charger with hidden integrated charging

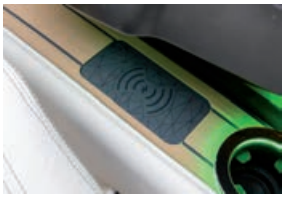
SCANSTRUT

IPX6

For indoor and outdoor installation on any non-metal surface (fiberglass, leather, PVC, fabric, wood, carbon fibre, etc.) IPX6 watertight. Compatible with any mobile phone with a non-metal case and 3-mm minimum thickness. Qi wireless charge technology (Apple, Samsung, Huawei, etc).

COde	Input V	⟷ mm
14.515.05	12/24	Ø 98 x 17





SCANSTRUT

Cell phone case with ROKK ACTIVE wireless and watertight battery charger

IPX6

High-performance wireless cell phone charger for marine purposes.
It fits cell phones 120- (4.7") to 173-mm (6.8") long.
- 100% IPX6 watertight.
- High degree grip.
- Anodized aluminium case.
- It can be plugged with a single hand.
- Installation on any flat surface.
- LED charge indicator.

Code	Input V	Output	⟷ mm		Cable cm
			closed	open	
14.514.01	12/24	5W (5V, 1A)	74x33x142	74x33x206	50

◢ Video

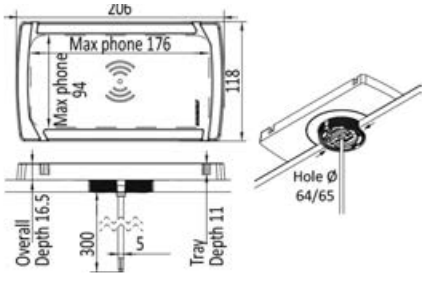
SCANSTRUT

New ROKK wireless Catch watertight battery charger

IPX6

Safely holds & wirelessly charges your phone at the same time.
Now you can keep your phone in a safe place onboard, in sight, charged and ready to go.
Designed to easily install onto any flat surface. Simply place your phone onto the center of the charging mat and instantly start wirelessly charging. Qi certified.

Code	Input V	⟷ mm
14.515.07	12/24	206x118



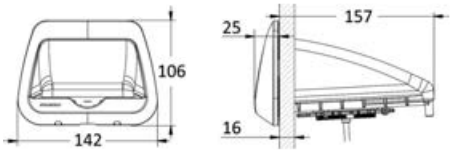
SCANSTRUT

ROKK wireless NEST watertight battery charger for recess-fit mounting

IPX6

Wireless battery charge for bulkhead recess-fit mounting.
To be integrated on consoles, seats, cushions, etc.
Simply rest your mobile phone on the anti-slip housing. No connection cord required.
12/24V power. Compatible with any mobile phone with a non-metal case and 3-mm minimum thickness. Qi wireless charge technology (Apple, Samsung, Huawei, etc).
IPX6 watertight. Fitted with water drain system in case of leaks inside the housing.
It can also be used as object holder.

Code	Input V	⟷ mm
14.515.06	12/24	142x106x182 (depth)



► Plugs and sockets for trailers

Socket and 7-pole plug

◢14.190.00

◢14.190.02

◢14.190.01

Type-approved for towing.
Made with **black ABS** and **chromed brass** parts.
Long lasting and 100% rust-proof model.

Code	Description	V
14.190.00	Socket + plug	12
14.190.01	Nur socket	12
14.190.02	Nur plug	12

13-pole plug

Made of black ABS with **chromed brass** parts.
To be coupled with socket 14.191.01.

Code	V	For terminals
14.191.02	12	ISO 11446

13-pole socket

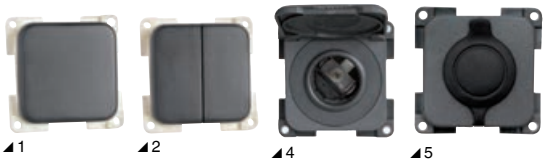
12 volt, suitable for towing, ISO 11446.
Made of **black ABS** with **chromed brass** parts.

Code	V	For terminals
14.191.01	12	ISO 11446

► Modular switches, sockets and plugs

Modular electrical material

CE Made of plastic, **stainless steel and brass**, easy to mount, fine looking product.
Module 50x50mm.



◢1 ◢2 ◢4 ◢5

Product	Dark grey	Brown
1 - ON-OFF switch, 10-mm recess thickness, 12/24 V	**14.650.01**	**14.660.01**
1 - ON-OFF switch, 10-mm recess thickness, 12/24 V (needed to switch on the light from 2 different places)	**14.650.00**	**14.660.00**
2 - Dual ON-OFF switch, 10-mm recess overhang, 12/24 V	**14.650.02**	**14.660.02**
50-mm Ø rear protection for switch 14.650/660.01/02, 35-mm depth	**14.650.03**	**14.650.03**
4 – Phone or lighter socket with snap cover, 12/24 V	**14.651.01**	**14.661.01**
5 – Mobile phone or lighter socket for outdoor purposes with watertight cap, 12/24 V	**14.651.02**	**-**
6 - Dual USB socket. 1A and 2.1A outputs	**14.651.03**	**-**
7 – Electrical plug matching 14.651.01/02 - 14.661.01/02	**14.517.02**	**14.517.02**
8 – TV antenna socket + mobile phone or lighter socket	**14.652.01**	**14.662.01**
9 – Standard bipolar electrical socket with earth and snap cover and protection (47-mm recess thickness, 45-mm Ø recess)	**14.653.01**	**14.663.01**
10 – Schuko bipolar electrical socket with earth on its perimeter, snap cover and rear protection (50-mm Ø, 34-mm overhang)	**14.653.02**	**14.663.02**
11 – 40W electronic dimmer for cab lights	**14.654.02**	**14.664.02**
12 – Switch and socket snap mounting support, single	**14.657.02**	**14.667.02**
13 – 85x78-mm snap-mounting screwcover frame, single	**14.655.02**	**14.665.02**
14 – Switch and socket snap mounting support, double	**14.658.02**	**14.668.02**
15 - 139x78-mm snap-mounting screwcover frame, double	**14.655.03**	**14.665.03**
16 – Switch and socket snap mounting support, triple	**14.659.02**	**-**
17 - 192x78-mm snap-mounting screwcover frame, triple	**14.655.04**	**-**

◢7

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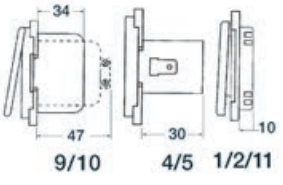
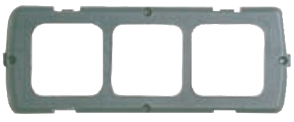
◢11/12/13





◢12/14/16

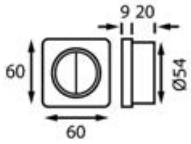
◢15

◢17

Socket and switch

Elegant panel fitted with BATSYSTEM switches

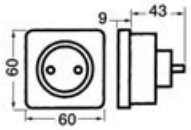
Single switch	Dual switch	Colour		A per switch
		Front panel	Rocker	
-	14.486.05	White	White	10
14.486.11	14.486.15	Black	Black	10
14.486.02	14.486.06	Chromed	Black	10
14.486.04	-	Matt nickel	Black	10



Schuko power socket

Fitted with frame, 16A.

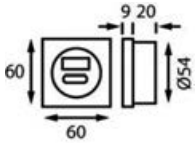
Code	Colour		Voltage	Recess Ø mm	Panel mm
	front panel	socket			
14.492.01	White	White	AC 220 V	52	60x60
14.492.11	Black	Black	AC 220 V	52	60x60
14.492.03	Chromed	Black	AC 220 V	52	60x60



USB port

For mobile phones, MP3, cameras, etc.

Code	Colour		V	Outlet
	front panel	socket		
14.494.01	White	Black	12/24	5 V/2A
14.494.11	Black	Black	12/24	5 V/2A
14.494.03	Chromed	Black	12/24	5 V/2A



Power socket, watertight

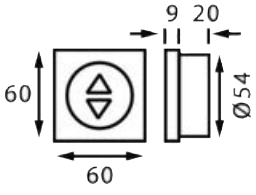
Waterproof power socket, carlighter type

Code	Colour		V	Recess Ø mm
	front panel	socket		
14.491.03	Chromed	Black	12	53

BATSYSTEM rheostat

For 24W LED bulbs with microprocessor that dims the light when the battery load reaches a critical level.

Code	Colour	Recess Ø mm
14.024.03	Chromed	52x20 depth
14.024.11	Black	52x20 depth



Dimmerable touch switch for LED lights

IP65

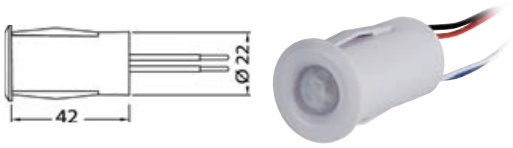
100% stainless steel and waterproof. A light touch activates the ON-OFF function. Keep pressed to activate the dimmer. Orange LED (OFF), white LED (ON).

Code	V	Capacity W	Bore Ø mm
14.482.00	12/24	18	19

Motion sensor

IP65 Infrared sensor that can be applied to no matter what light. 5-m and 120° operating range. 10-70 second activation.

Code	V	Max A	Max W	LED beam angle
14.481.00	12/24	5	24	120°



Rocker switch, bulkhead-mounting model

For cabins, low voltage. Max 15A.

Code	Colour	Switch		⟷ mm
		colour	N.	
14.101.15	polished stainless steel	white	1	51x64
14.102.15	polished stainless steel	white	2	51x64

Contemporary switches

Low voltage cabin switches made of nylon.

Code	Colour	Max A at 12 V	External mm	Hole mm	No of switches
14.484.01	White	15	68x71	37x46	1
14.484.02	White	15x2	68x71	37x46	2

► Bulbs and incandescent bulbs

Bipolar bulb

Parallel-pole small bulb.

Code	V	W	Type	Poles	ORDER BY BOX
14.200.00	12	5	BA15D	parallel	10
14.200.01	24	5	BA15D	parallel	10
14.200.02	12	10	BA15D	parallel	10
14.200.03	24	10	BA15D	parallel	10

Vertical filament bulb

Offset poles. Special model for type-appoved navigation lights such as Osculati Utility lights, as well as Hella, Dhr or Aqua Signal.

Code	V	W	Type	ORDER BY BOX
14.220.00	12	25	BAY15D	10
14.220.01	24	25	BAY15D	10
14.220.02	12	10	BAY15D	10
14.220.03	24	10	BAY15D	10
14.220.04	12	15	BAY15D	10

Festoon bulb

For lamps, ceiling fixtures, signal lights.

Code	V	W	L mm	Ø mm	ORDER BY BOX
14.300.00	12	10	37	10	10
14.300.01	24	10	37	10	10
14.300.05	12	5	37	10	10
14.300.06	24	5	37	10	10
14.400.00	12	10	31	10	10
14.400.01	12	8	31	10	10
14.400.02	12	5	31	8	10
14.400.03	24	5	31	10	10
14.202.12	12	15	45	15	10
14.202.24	24	15	45	15	10

Bayonet bulb

Small version, BA9S base.

Code	V	W	ORDER BY BOX
14.250.00	12	4	10

Halogen bulb

JC with G4 screw

Code	V	W	ORDER BY BOX
14.453.01	12	20	10
14.454.12	12	10	10
14.454.24	24	10	10
14.455.12	12	5	10
14.455.24	24	5	10
14.100.24	24	20	10

Dichroic halogen bulb

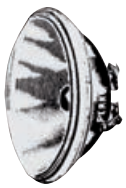
With G4 screw reflector.

Code	Type	V	W	Ø mm
14.921.20	MR11	12	20	35
14.921.24	MR11	24	20	35
14.258.57	MR16	12	35	50
14.258.58	MR16	24	35	50

Watertight bulb

Spare bulb for a wide range of navigation lights and crosstree lights.

Code	V	W	Watertight bulb version	⟷ mm
14.249.01	12	30	-	110 (4")
14.249.02	12	100	-	110 (4")
14.249.04	24	100	-	140 (5"3/4)
14.249.05	12	100	-	174 (7")
14.249.06	24	170	-	174 (7")
14.249.07	12	35	splined for crosstree lights	110 (4")
14.249.08	24	50	splined for crosstree lights	110 (4")
14.249.11	12	50	splined - halogen	110 (4")



► LED light bulbs

OSCULATI

◢ 14.450.01

◢ 14.450.05

◢ 14.450.09

◢ 14.451.00

◢ 14.450.02

SMD LED bulb, G4 connection

LED

It replaces all G4 connection halogen bulbs

Code	Screw	chip Ø mm	V	W	W equivalent	lumen	K	LED beam angle	No of LEDs	Connection
14.450.01	G4	30	12/24	2	15	200	2700	120°	12	side
14.450.05	G4	24	12/24	1.2	7	120	2700	120°	6	side
14.450.09	G4	28	12/24	1.6	11	160	2700	120°	9	side
14.451.00	G4	24	12/24	1.4	10	90	2700	150°	1 HD	side
14.450.02	G4	30	12/24	2	15	200	2700	120°	12	rear
14.450.06	G4	24	12/24	1.2	7	120	2700	120°	6	rear
14.450.10	G4	28	12/24	1.6	11	160	2700	120°	9	rear

◢ 14.450.06

◢ 14.450.10

◢ 14.450.01

◢ 14.450.02

Bicolour SMD LED bulb, G4 screw

LED

Repeatedly press the switch to activate either the white or red/blue light.
It perfectly retrofits the existing electric installation.

Code	LED colour	V	Chip Ø mm	W	W equivalent	No of LEDs	Lumen	K	LED beam angle	Connection
14.450.31	white/blue	12	31	1.6/0.8	10/5	16	180/20	3000	120°	side
14.450.32	white/blue	24	31	1.6/0.8	10/5	16	180/20	3000	120°	side
14.450.33	white/red	12	31	1.6/0.7	10/4.5	16	180/25	3000	120°	side
14.450.34	white/red	24	31	1.6/0.7	10/4.5	16	180/25	3000	120°	side

LED light bulb - G4 side screw

LED

Model fitting a single high-power SMD LED bulb.

Code	Screw	V	W	W equivalent	Lumen	K	LED beam angle	Connection	⟷ mm
14.450.15	G4	12/24	1.5	15	130	3000	120°	Lateral	33x16

LED light bulb - G4 screw, 360° light

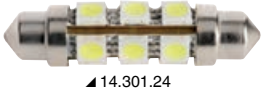
LED

High-power SMD LED version.

Code	Screw	V	W	W equivalent	Lumen	K	LED beam angle	Connection	⟷ mm
14.450.18	G4	12	1.6	18	150	3000	360°	In axis	10x38

◢ 14.301.20

◢ 14.301.22/32


◢ 14.301.24

◢ 14.301.20/ 22/24

◢ 14.300.32

Festoon LED bulb

LED

Equipped with LED **having a 360° light cone**.

Code	V	Length mm	LED	Chip	W	lumen	K	Suitable for lights	Package
14.301.20	12	31	4	12	0,7	60	3000	Compact 12 and 11.507.xx	2 pcs
14.300.32	12	36	8	24	1.7	89	2700	General purposes, 36-mm lamp holder centre distance	1 pc
14.301.22	12	38	8	24	1.4	120	3000	Classic 12 / Utility 85 / Utility 77	2 pcs
14.301.24	12	44	12	36	2	180	3000	Maxi 20	2pcs

BA15D LED bulb for anchor lights, aligned bayonet pins

LED

It can replace a 10W bulb in anchor lights 11.132.xx, 11.133.xx, and similar.

Code	V	W	W equivalent	lumen	K	LED beam angle	Poles
14.223.00	12/24	1.2	10	100	3000	170°	Parallel

◢ 14.443.11 ◢ 14.443.12 ◢ 14.443.13

SMD LED bulb for spotlights, BA15D screw

LED

BA15D screw (15-mm bayonet with aligned pins).

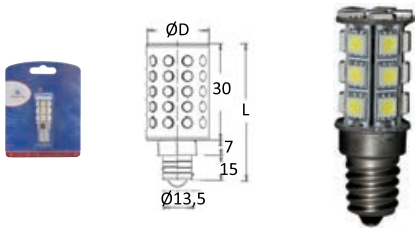
Code	V	W	W equivalent	lumen	K	Ø D mm	L mm
14.443.11	12/24	2	12	140	2700	16	41
14.443.12	12/24	3.6	20	264	2700	19	50
14.443.13	12/24	4	35	400	2700	20	55

LED SMD light bulb with E14 connection

LED

For spotlight with Edison E14 screw.

Code	V	W	W equivalent	lumen	K	Ø D mm	L mm
14.443.10	12/24	3.2	20	260	2700	19	56

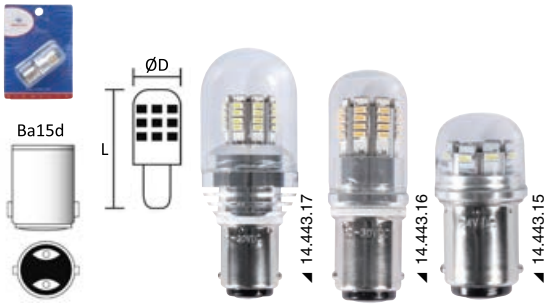


SMD LED bulb with BA15D screw

LED **IP65**

For spotlights with glass cover LED. BA15D screw (15-mm bayonet with aligned pins)

Code	volt	Consumption W	W equivalent	Lumen	K	Ø D mm	L mm
14.443.15	12/24	1.2	10	100	3000	18	40
14.443.16	12/24	2.5	23	240	3000	18	54
14.443.17	12/24	3	28	280	3000	25	67



SMD LED bulb, E14/E27 screw

LED

LED glass cover

Code	Screw*	V	W	W equivalent	Lumen	K	Ø D mm	L mm	IP
14.443.20	E14	12/24	2.5	23	240	3000	18	54	65
14.443.21	E14	12/24	3	28	280	3000	25	67	65
14.443.22	E27	12/24	2.5	30	220	3000	32	78	40

* *E14 = small Edison screw; E27= large Edison screw*

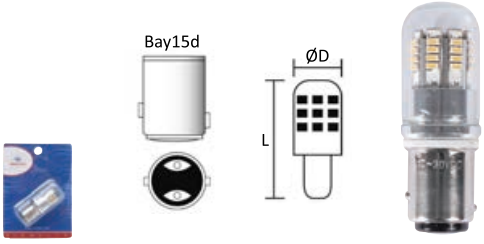
BAY15D LED bulb, offset pins for navigation lights

LED

For navigation lights (11.417.xx; 11.427.xx; 11.134.xx; 11.135.xx, 11.136.xx; DHR series 35/55; Aqua signal 40/41; Hella 2984; Lalizas N20/S20 and similar).

IP65

Code	V	W	W equivalent	Lumen	K	Ø D mm	L mm
14.444.01	12/24	2.5	25	240	3000	18	54

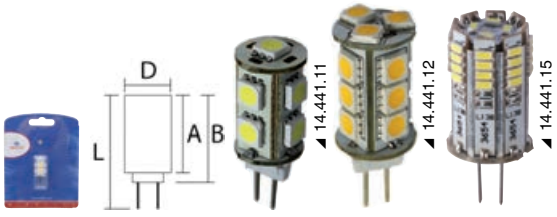


SMD LED bulb for spotlights, G4 screw

LED

G4 connection (halogen-type bulb).

Code	V	W	W equivalent	lumen	Light	Ø D mm	A mm	B mm	L mm
14.441.11	12/24	1.6	10	97	2700	13.5	23	24.5	34.5
14.441.12	12/24	2.4	15	161	2700	15	25	26.5	36.5
14.441.15	12/24	2.2	20	220	2700	15	23	24.5	34.5

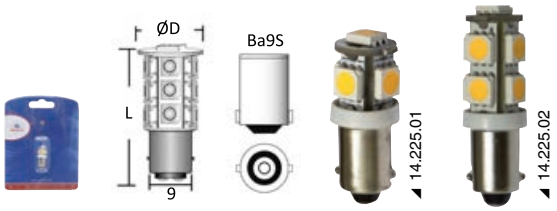


LED bulb for lights, courtesy lights and navigation lights, BA9S screw

Bulb cap BA9S, it can replace traditional bulbs.

Code	V	W	lumen	K	Ø D mm	L mm
14.225.01*	12	0.9	61	2700	12	28
14.225.02	12	0.85	95	2700	12	34

* *It can replace the traditional bulb in all spot lights series 11.412.xx - 11.413.xx*

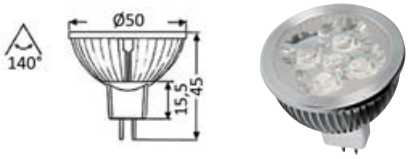


LED spotlight

LED

Equipped with 4 x HD LEDs.
Power equivalent to a 35-watt halogen bulb.

Code	V	W	lumen	K	LED beam angle	Type	Ø mm
14.258.56	12	4	260	6000	45°	MR16	50



Classic Evo & New Edge
deck showers

► Showers and deck showers

Classic Evo deck shower with Tiger stainless steel shower head

OSCULATI

Stainless steel shower head, UV-resistant ASA white housing.

White lid		SS lid	mm		Hose	Hose
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	recess	outer dimensions		m
15.163.00	15.163.00BU	15.163.70	Ø70x44	Ø95	Net PVC	2.5
15.163.01	15.163.01BU	15.163.71	Ø70x44	Ø95	Net PVC	4
15.163.30	15.163.30BU	15.163.80	Ø70x44	Ø95	SS	2.5
15.163.31	15.163.31BU	15.163.81	Ø70x44	Ø95	SS	4
15.163.60	15.163.60BU	15.163.90	Ø70x44	Ø95	White nylon	2.5
15.163.61	15.163.61BU	15.163.91	Ø70x44	Ø95	White nylon	4

15.290.55 *Hose bag (option)*

15.163.00/01/ 60/61

15.163.70/ 71/80/81/90/91

15.163.80/81

15.163.00/01

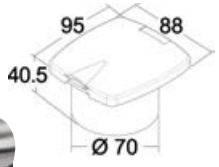
New Edge deck shower with Tiger stainless steel shower head

OSCULATI

Stainless steel shower head, UV-resistant ASA white housing.

White lid		SS lid	mm		Hose	Hose
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	recess	outer dimensions		m
15.164.00	15.164.00BU	15.164.70	Ø70x40.5	88x95	Net PVC	2.5
15.164.01	15.164.01BU	15.164.71	Ø70x40.5	88x95	Net PVC	4
15.164.30	15.164.30BU	15.164.80	Ø70x40.5	88x95	SS	2.5
15.164.31	15.164.31BU	15.164.81	Ø70x40.5	88x95	SS	4
15.164.60	15.164.60BU	15.164.90	Ø70x40.5	88x95	White nylon	2.5
15.164.61	15.164.61BU	15.164.91	Ø70x40.5	88x95	White nylon	4

15.290.55 *Hose bag (option)*



15.164.70/71/80/81/90/91

15.164.00/01/60/61

15.164.00/01

15.164.80/81

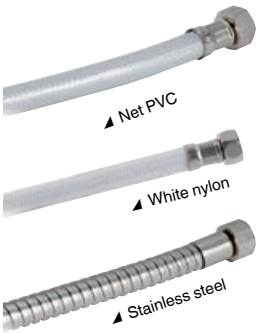
Classic Evo deck shower with Mizar push-button shower

OSCULATI

Chromed brass shower head, UV-resistant ASA white housing.

White lid		Chromed lid		SS lid	mm		Hose	Hose
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	recess	outer dimensions		m
15.250.00	15.250.00BU	15.250.06	15.250.06BU	15.250.70	Ø70x44	Ø95	Net PVC	2.5
15.250.01	15.250.01BU	15.250.07	15.250.07BU	15.250.71	Ø70x44	Ø95	Net PVC	4
-	-	15.150.06	15.150.06BU	15.250.80	Ø70x44	Ø95	SS	2.5
-	-	15.150.07	15.150.07BU	15.250.81	Ø70x44	Ø95	SS	4
15.250.60	15.250.60BU	-	-	15.250.90	Ø70x44	Ø95	White nylon	2.5
15.250.61	15.250.61BU	-	-	15.250.91	Ø70x44	Ø95	White nylon	4

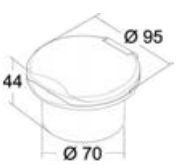
15.290.55 *Hose bag (option)*



15.250.00/01/60/61

15.250.06/07; 15.150.06/07

15.250.70/71/ 80/81/90/91



15.250.70/71

15.150.06/07

15.250.00/01

Classic EVO deck shower for bulkhead mounting with Mizar push-button shower

OSCULATI

Chromed brass shower head, UV-resistant ASA white housing.

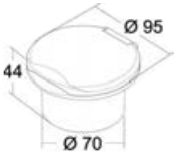
White lid		Chromed lid		SS lid	⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	recess	outer dimensions		
15.250.03	15.250.03BU	15.250.09	15.250.09BU	15.250.73	Ø70x44	Ø95	Net PVC	2.5
15.250.04	15.250.04BU	15.250.10	15.250.10BU	15.250.74	Ø70x44	Ø95	Net PVC	4
-	-	15.150.09	15.150.09BU	15.250.83	Ø70x44	Ø95	SS	2.5
-	-	15.150.10	15.150.10BU	15.250.84	Ø70x44	Ø95	SS	4
15.250.63	15.250.63BU	-	-	15.250.93	Ø70x44	Ø95	White nylon	2.5
15.250.64	15.250.64BU	-	-	15.250.94	Ø70x44	Ø95	White nylon	4

15.290.56 *Hose bag (option)*

15.250.03/04/63/64

15.250.09/ 10; 15.150.xx

15.250.7x/8x/9x



New Edge deck shower with Mizar push-button shower

OSCULATI

Chromed brass shower head, UV-resistant ASA white housing.

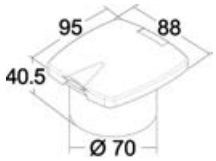
White lid		Chromed lid		SS lid	⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	recess	outer dimensions		
15.243.00	15.243.00BU	15.243.06	15.243.06BU	15.243.70	Ø70x40.5	88x95	Net PVC	2.5
15.243.01	15.243.01BU	15.243.07	15.243.07BU	15.243.71	Ø70x40.5	88x95	Net PVC	4
-	-	15.143.06	15.143.06BU	15.243.80	Ø70x40.5	88x95	SS	2.5
-	-	15.143.07	15.143.07BU	15.243.81	Ø70x40.5	88x95	SS	4
15.243.60	15.243.60BU	-	-	15.243.90	Ø70x40.5	88x95	White nylon	2.5
15.243.61	15.243.61BU	-	-	15.243.91	Ø70x40.5	88x95	White nylon	4

15.290.55 *Hose bag (option)*

15.243.00/01/60/61

15.243.06/07; 15.143.xx

15.243.70/71/80/81/90/91



New Edge deck shower with Boris shower head

OSCULATI

Plastic shower head with chromed head, UV-resistant ASA housing.

Lid finish white with white housing		Lid finish chromed with white housing		Lid finish SS with white housing RETAIL (1pcs)	Lid finish black with black housing RETAIL (1pcs)	⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)			recess	outer dimensions		
15.248.00	15.248.00BU	15.248.06	15.248.06BU	15.248.70	15.248.56	Ø70x40.5	88x95	Net PVC	2.5
15.248.01	15.248.01BU	15.248.07	15.248.07BU	15.248.71	15.248.57	Ø70x40.5	88x95	Net PVC	4
-	-	15.148.06	15.148.06BU	15.248.80	-	Ø70x40.5	88x95	SS	2.5
-	-	15.148.07	15.148.07BU	15.248.81	-	Ø70x40.5	88x95	SS	4
15.248.60	15.248.60BU	-	-	15.248.90	-	Ø70x40.5	88x95	White nylon	2.5
15.248.61	15.248.61BU	-	-	15.248.91	-	Ø70x40.5	88x95	White nylon	4

◢ 15.248.06/07; 15.148.xx

◢ 15.248.00/01/60/61

◢ 15.148.06/07

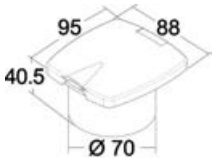
◢ 15.248.56

◢ 15.248.70/71

◢ 15.248.00/01

◢ 15.248.56/57

◢ 15.248.7x/8x/9x



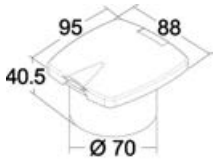
New Edge deck shower with Niagara shower head

OSCULATI

Chromed ABS shower head with, UV-resistant ASA white housing.

White lid		Chromed lid RETAIL (1pcs)	⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)		recess	outer dimensions		
15.160.01	15.160.01BU	15.160.20	Ø70x40.5	88x95	Net PVC	2.5
15.160.02	15.160.02BU	15.160.21	Ø70x40.5	88x95	Net PVC	4
15.160.30	15.160.30BU	15.160.50	Ø70x40.5	88x95	SS	2.5
15.160.31	15.160.31BU	15.160.51	Ø70x40.5	88x95	SS	4
15.160.60	15.160.60BU	-	Ø70x40.5	88x95	White nylon	2.5
15.160.61	15.160.61BU	-	Ø70x40.5	88x95	White nylon	4

15.290.55 *Hose bag (option)*



◢ 15.160.2x/5x

◢ 15.160.0x/3x/6x

◢ 15.160.50/51

◢ 15.160.01/02

Nuvola & Elissa
deck shower

OSCULATI

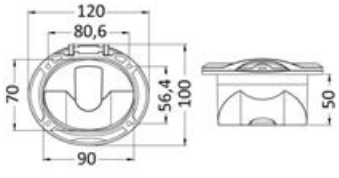
Nuvola deck shower with Keji shower head

STAINLESS LOOK

REGISTERED DESIGN / DISEGNO DEPOSITATO

Housing with AISI316 stainless steel insert. Inclined at 45° for flat or vertical mounting.
Fitted with Keji oversized shower head and anti-limescale sprayer.

Code RETAIL (1pcs)	mm recess bore	mm outer dimensions	Hose	Hose m
15.275.01	90x70	120x100	Net PVC	2.5
15.275.02	90x70	120x100	Net PVC	4
15.275.11	90x70	120x100	SS	2.5
15.275.12	90x70	120x100	SS	4
15.275.21	90x70	120x100	White nylon	2.5
15.275.22	90x70	120x100	White nylon	4



Elissa deck shower with Tiger shower head

AISI 316

AISI316 stainless steel housing with self-supporting lid.
Fitted with Tiger stainless steel shower head and inside anti-vibration rubber washer.

Code RETAIL (1pcs)	⟷ mm		Hose	Hose m
	recess bore	outer dimensions		
15.303.00	90x70	118x97	Net PVC	2.5
15.303.01	90x70	118x97	Net PVC	4
15.303.30	90x70	118x97	SS	2.5
15.303.31	90x70	118x97	SS	4
15.303.60	90x70	118x97	White nylon	2.5
15.303.61	90x70	118x97	White nylon	4

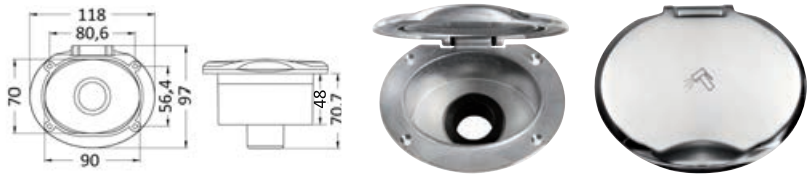
Elissa deck shower with Keji shower head

AISI 316

REGISTERED DESIGN / DISEGNO DEPOSITATO

AISI316 stainless steel shower housing with self-supporting lid.
Fitted with Keji overdimensioned shower head and inside anti-vibration rubber washer.

Code RETAIL (1pcs)	⟷ mm		Hose	Hose m
	recess bore	outer dimensions		
15.304.00	90x70	118x97	net PVC	2.5
15.304.01	90x70	118x97	net PVC	4
15.304.30	90x70	118x97	SS	2.5
15.304.31	90x70	118x97	SS	4
15.304.60	90x70	118x97	white nylon	2.5
15.304.61	90x70	118x97	white nylon	4



Elissa deck shower with Keji II Continuum Flow shower head

AISI 316

CONTINUUM FLOW

REGISTERED DESIGN / DISEGNO DEPOSITATO

AISI316 stainless steel shower housing with self-supporting lid.
Fitted with Keji II Continuum Flow overdimensioned shower head and inside anti-vibration rubber washer.

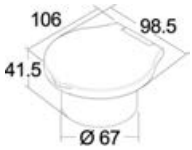
Code RETAIL (1pcs)	⟷ mm		Hose	Hose m
	recess bore	outer dimensions		
15.305.00	90x70	118x97	Net PVC	2.5
15.305.01	90x70	118x97	Net PVC	4
15.305.30	90x70	118x97	SS	2.5
15.305.31	90x70	118x97	SS	4
15.305.60	90x70	118x97	White nylon	2.5
15.305.61	90x70	118x97	White nylon	4

OSCULATI

ELEGANT deck shower with MIZAR push-button shower head

Chromed brass shower head, white UV-resistant ASA housing. 45-mm recess.

White	⟷ mm		Hose	Hose m	Spare shower head
	recess	outer dimensions			
15.246.00	Ø 70x41.5	98.5x106	Net PVC	2.5	**15.242.02**
15.246.01	Ø 70x41.5	98.5x106	Net PVC	4	**15.242.02**

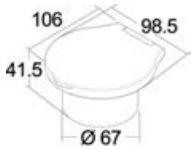


OSCULATI

Elegant deck shower for bulkhead mounting with Mizar push-button shower head

Chromed brass shower head, white UV-resistant ASA housing. 45-mm recess.

white	⟷ mm		Hose	Hose m	Spare shower head
	recess	outer dimensions			
15.246.03	Ø 70x41.5	98.5x106	Net PVC	2.5	**15.242.02**
15.246.04	Ø 70x41.5	98.5x106	Net PVC	4	**15.242.02**



OSCULATI

Deck shower with Mizar push-button shower head for bulkhead installation

Made of chromed brass, fitted with recess-fit white UV-resistant ASA bracket and white PVC watertight lid. 45-mm recess.

white	⟷ mm		Hose	Hose m	Spare shower head
	recess	outer dimensions			
15.245.00	54	84	Net PVC	2.5	**15.242.02**
15.245.01	54	84	Net PVC	4	**15.242.02**

OSCULATI

Deck shower with Mizar push-button shower head

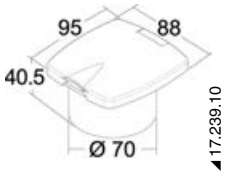
Made of chromed brass, fitted with recess-fit UV-resistant ASA bracket and white PVC watertight lid. 45-mm recess.

Base finish		⟷ mm		Hose	Hose m	Spare shower head
white	chromed	recess	outer dimensions			
15.242.00	**15.244.00**	54	84	Net PVC	2.5	**15.242.02**
15.242.01	**15.244.01**	54	84	Net PVC	4	**15.242.02**

Deck shower with mixer

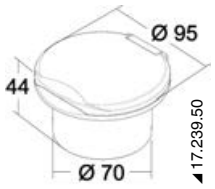
Chromed brass tap with ceramic mixer. Recess-fit white UV-resistant ASA housing.

White	Housing type	⟷ housing mm		Hot/cold water mixer
		recess	outer dimensions	
17.239.10	New Edge	Ø70x40.5	88x95	**17.051.00**
17.239.50	Classic EVO	Ø70x44	Ø95	**17.051.00**



◢ 17.239.10

◢ 17.239.10



◢ 17.239.50

◢ 17.239.50

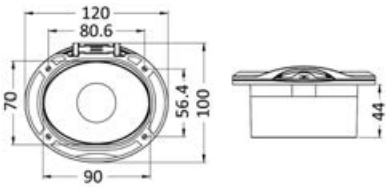
◢ 17.239.50

Nuvola deck shower with mixer

STAINLESS LOOK

Chromed brass tap with ceramic mixer.
ASA housing with AISI316 stainless steel insert.

Code	⟷ mm	
	recess	outer dimensions
15.239.60	90x70	120x100

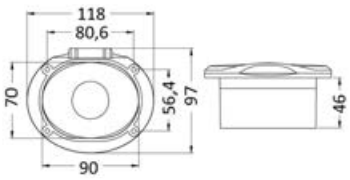


Elissa deck shower with mixer

AISI 316

AISI316 stainless steel housing with self-supporting lid.
Fitted with cylindrical knob mixer.

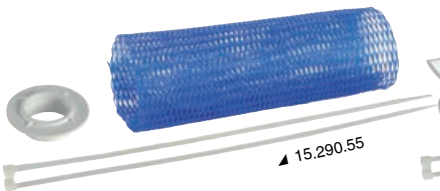
Code	⟷ mm	
	recess	outer dimensions
17.239.90	90x70x46	118x97



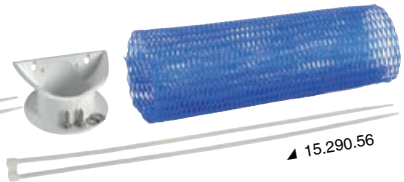
Bag for shower hose

Convenient plastic-mesh bag made for the hose of the below-deck shower to prevent getting entangled in the other equipment and making it impossible to extract the shower head.
Easy to fasten and adapt to all situations.

Code	To be used with deck showers	Mounting
15.290.55	**Classic EVO single**, horizontal mounting, Mizar deck shower: 15.250.00/01/06/07; 15.150.06/07; **New Edge single**, horizontal mounting, Mizar and Niagara deck shower: 15.243.00/01/06/07; 15.143.06/07; 15.160.xx; **Oval double**, Mizar deck shower: 15.240.01/02/30/31; 15.140.30/31; 15.241.01/02; **New Edge double**, Mizar deck shower: 15.257.01/02/30/31; 15.257.41/42.	To be snapped in and/or glued
15.290.56	**Classic EVO single**, bulkhead mounting, Mizar deck shower: 15.250.03/04/09/10; 15.150.09/10.	To be screwed



◢ 15.290.55



◢ 15.290.56

◢ 15.290.55

◢ 15.290.56

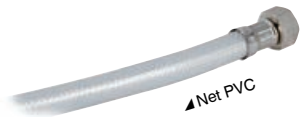
Oval deck shower with Mizar mixer and push-button shower head

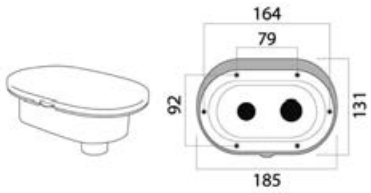
OSCULATI

Chromed brass shower and white UV-resistant ASA housing. Fitted with hot/cold water mixer. Flat or bulkhead mounting.

White lid		Chromed lid		⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	recess	outer dimensions		
15.240.01	15.240.01BU	15.240.30	15.240.30BU	150x80x40	185x131	Net PVC	2.5
15.240.02	15.240.02BU	15.240.31	15.240.31BU	150x80x40	185x131	Net PVC	4
-	-	15.140.30	15.140.30BU	150x80x40	185x131	SS	2.5
-	-	15.140.31	15.140.31BU	150x80x40	185x131	SS	4
15.240.60	-	-	-	150x80x40	185x131	White nylon	2.5
15.240.61	-	-	-	150x80x40	185x131	White nylon	4

15.290.55 *Hose bag (option)*





15.240.0x/6x

15.240.3x; 15.140.3x

Mizar shower head 15.242.02

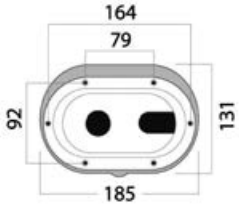
Oval deck shower with Desy mixer and push-button shower head

OSCULATI

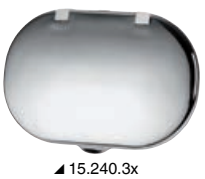
Chromed plastic shower and white UV-resistant ASA housing. Fitted with hot/cold water mixer. Flat or bulkhead mounting.

White lid		Chromed lid		⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	recess	outer dimensions		
15.240.20	15.240.20BU	15.240.33	15.240.33BU	150x80x40	185x131	Net PVC	2.5
15.240.21	15.240.21BU	15.240.34	15.240.34BU	150x80x40	185x131	Net PVC	4

15.290.55 *Hose bag (option)*



15.240.2x


15.240.3x

Desy deck shower 15.238.03

New Edge deck shower with Mizar mixer and push-button shower head

OSCULATI

Chromed brass shower and white UV-resistant ASA housing. Fitted with hot/cold water mixer. Flat or bulkhead mounting.

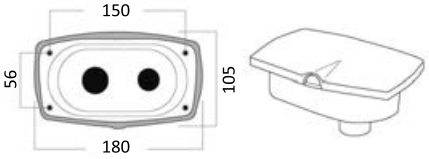
White lid		RAL 9010 cream lid		Chromed lid		⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	recess	outer dimensions		
15.257.01	15.257.01BU	15.257.41	15.257.41BU	15.257.30	15.257.30BU	148x74x40	180x105	Net PVC	2.5
15.257.02	15.257.02BU	15.257.42	15.257.42BU	15.257.31	15.257.31BU	148x74x40	180x105	Net PVC	4

15.290.55 *Hose bag (option)*

◢15.257.30/31

◢15.257.01/02

◢Mizar shower head 15.242.02



◢15.257.3x

◢15.257.4x

◢15.257.0x

New Edge deck shower with Boris mixer and push-button shower head

OSCULATI

Plastic shower with chromed head and white UV-resistant ASA housing. Fitted with hot/cold water mixer. Flat or bulkhead mounting.

White lid		Chromed lid		⟷ mm		Hose	Hose m
RETAIL (1pcs)	BULK (10pcs)	RETAIL (1pcs)	BULK (10pcs)	recess	outer dimensions		
15.257.20	15.257.20BU	15.257.33	15.257.33BU	148x74x40	180x105	Net PVC	2.5
15.257.21	15.257.21BU	15.257.34	15.257.34BU	148x74x40	180x105	Net PVC	4
15.158.20	15.158.20BU	-	-	148x74x40	180x105	SS	2.5
15.158.21	15.158.21BU	-	-	148x74x40	180x105	SS	4
15.257.60	15.257.60BU	-	-	148x74x40	180x105	White nylon	2.5
15.257.61	15.257.61BU	-	-	148x74x40	180x105	White nylon	4

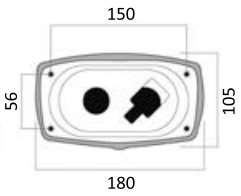
◢15.257.20/21

◢15.257.33/34

◢15.257.2x/6x; 15.158.2x

◢15.257.3x

◢Boris shower head 15.248.02



Deck shower with Mizar push-button shower head fitted with watertight on/off switch

OSCULATI

Chromed-brass shower head, white UV-resistant ASA housing. Suitable for small/medium hulls where the deck shower is connected directly to the fresh water pump system.

White	⟷ mm		Hose	Hose m	Spare shower head
	recess	outer dimensions			
15.241.01	150x80x40	185x124	Net PVC	2.5	15.242.02
15.241.02	150x80x40	185x124	Net PVC	4	15.242.02

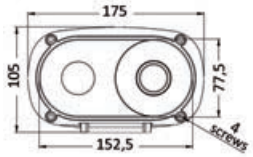
OSCULATI

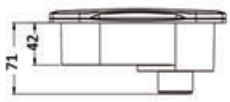
Elissa deck shower with Tiger mixer and shower head

AISI 316

AISI316 stainless steel housing with self-supporting/soft-close lid.
Fitted with Tiger stainless steel shower head and inside anti-vibration washer.
Mixer with cylindrical knob.

Code	⟷ mm		Hose	Hose m
	outer dimensions	recess		
15.323.00	175x105	152.5x77	Net PVC	2.5
15.323.01	175x105	152.5x77	Net PVC	4
15.323.30	175x105	152.5x77	SS	2.5
15.323.31	175x105	152.5x77	SS	4
15.323.60	175x105	152.5x77	White nylon	2.5
15.323.61	175x105	152.5x77	White nylon	4





OSCULATI

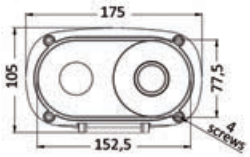
Elissa deck shower with Keji mixer and shower head

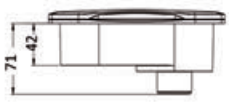
AISI 316

REGISTERED DESIGN / DISEGNO DEPOSITATO

AISI316 stainless steel housing with self-supporting/soft-close lid. Fitted with Keji chromed plastic shower head with oversized head. Inside anti-vibration washer.
Mixer with cylindrical knob.

Code	⟷ mm		Hose	Hose m
	outer dimensions	recess		
15.324.00	175x105	152.5x77	Net PVC	2.5
15.324.01	175x105	152.5x77	Net PVC	4
15.324.30	175x105	152.5x77	SS	2.5
15.324.31	175x105	152.5x77	SS	4
15.324.60	175x105	152.5x77	White nylon	2.5
15.324.61	175x105	152.5x77	White nylon	4





OSCULATI

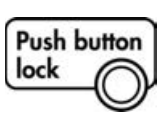
Elissa deck shower with Keji II Continuum Flow mixer and shower head

AISI 316

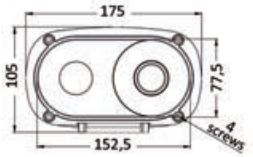
CONTINUUM FLOW

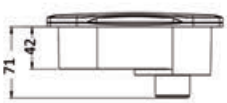
REGISTERED DESIGN / DISEGNO DEPOSITATO

AISI316 stainless steel shower housing with soft-close self-supporting lid.
Fitted with Keji II Continuum Flow chromed brass overdimensioned shower head and inside anti-vibration washer.
Cylinder knob mixer.
Ideal in combination with Rocky pole 15.480.20.



Code	⟷ mm		Hose	Hose m
	recess bore	outer dimensions		
15.325.00	175x105	152.5x77	Net PVC	2.5
15.325.01	175x105	152.5x77	Net PVC	4
15.325.30	175x105	152.5x77	SS	2.5
15.325.31	175x105	152.5x77	SS	4
15.325.60	175x105	152.5x77	White nylon	2.5
15.325.61	175x105	152.5x77	White nylon	4



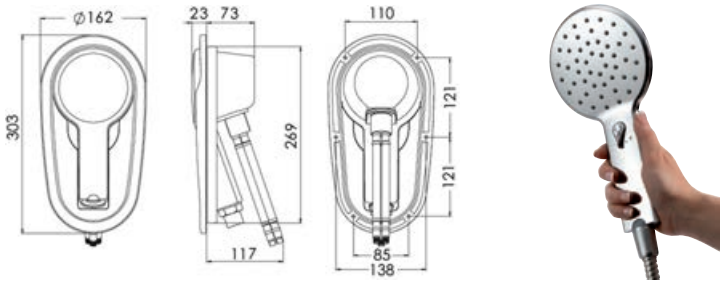


Adriana recess-fit deck shower

OSCULATI

Deck shower for deluxe boats.
Fitted with a large Bossini adjustable jet shower head with cold/hot water mixer.
UV-resistant ASA housing. The shower head is easy to pull out and also works as cover.
No lid for easier use and to prevent the tube to get stuck and damaged.

Code	Finish		⟷ mm		Tube	Tube m
	housing	shower head	recess	outer dimensions		
15.480.00	White ASA	Chromed	132x271	162x303	SS	4

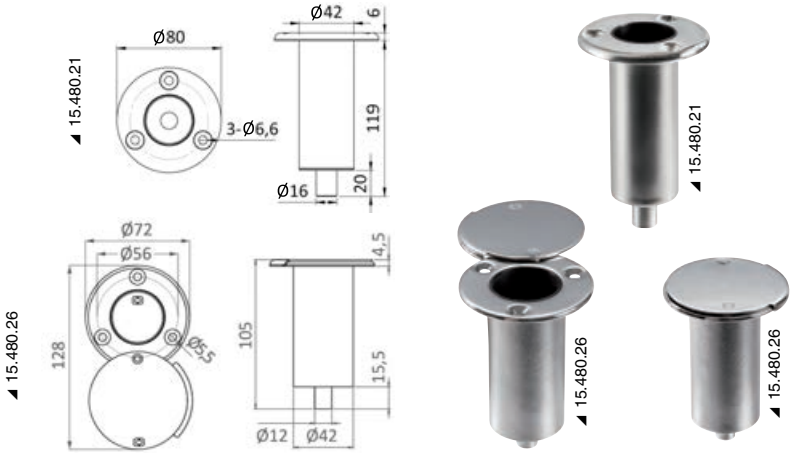


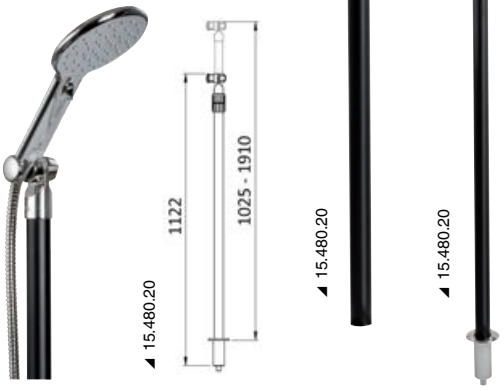
Rocky shower telescopic rod for outdoor purposes

OSCULATI

This rod makes it possible to have a shower head on the stern gangplank.
Made of black anodized aluminium + stainless steel parts.
The shower head can be adjusted in any position.
Lightweight and telescopic for easy storage, rod outer diameter 35 mm
(order 34.355.00 for bulkhead stowage).
Ideal to match Adriana deck shower 15.480.00 or Keji II Continuum Flow 15.237.06.

Code	Type	Description
15.480.21	Standard	Recess-fit SS base + POM bushing
15.480.20	Standard / Delux	Shower rod
15.480.26 New	Delux	Flush base with sliding cover, POM bushing and hidden screws.



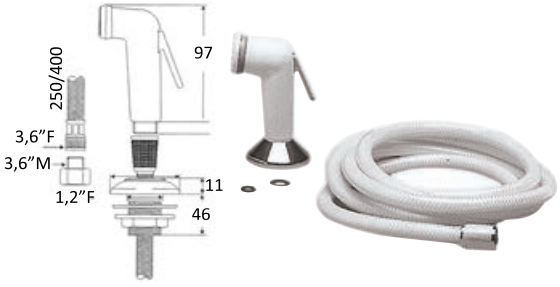


Utility handheld shower head

OSCULATI

Plastic and chromed brass lever-operated shower head.
The water system opens and activates the fresh water pump by pushing the button.
It prevents using an intermediate locking faucet. Designed for deck mounting.

Code	Hose	Hose m	Chromed brass deck support	Spare shower head
15.256.00	Net PVC	2.5	Yes	**15.256.02**
15.256.01	Net PVC	4	Yes	**15.256.02**
15.251.00	Net PVC	4	No	**15.256.02**



Plastic push-button shower head

Fitted with snap-on support for deck use.

Code	Hose	Hose m	Spare shower head
15.254.00	Net PVC	2.5	**15.242.02**
15.254.01	Net PVC	4	**15.242.02**

Whale

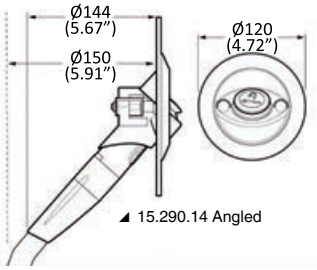
WHALE Twist integrated deck shower

PATENT/BREVETTATO

The hot/cold water temperature and the flow rate are set in an easy and user-friendly way by rotating the lower part of the shower head body. Its flow (8 lt/min) ensures a powerful water jet.
ABS body and grey rubber edges (blue rubber on request) to protect the deck from unwanted impacts.
Easy installation:
- Special section pipe with T-joint and pre-installed quick-release couplings;
- The flange can be installed from the outside with just one circular bore.

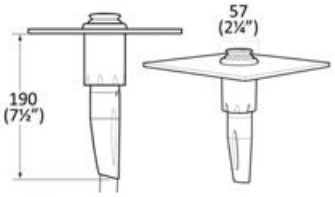
Code	Function	Flange	Colour	Minimum inner space mm	Flange Ø mm	⟷ pipe mm	Package
15.290.14	Hot/cold	Angled	Grey	150	120	250	bulk/loose
15.290.13	Hot/cold	Straight	Grey	190	57	250	bulk/loose
15.290.15	Hot/cold	Straight/Angled	Grey	190/150	57/120	250	retail box
15.290.11	Cold only	Straight	Grey	190	57	210	bulk/loose
15.290.10	Cold only	Straight/Angled	Grey	190/150	57/120	210	retail box

The angled version is suitable for installation on vertical walls and where there is limited inside space.



◢ 15.290.14 Angled

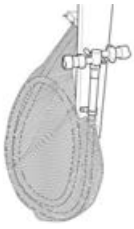
◢ 15.290.14



◢ 15.290.11/13 Straight

◢ 15.290.11/13

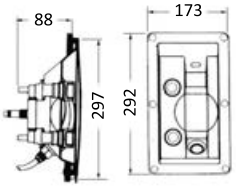
◢ 15.290.10/15



WHALE shower hose bag

15.290.50 Convenient plastic-mesh bag made for the hose of the below-deck shower to prevent getting entangled in the other equipment and making it impossible to extract the shower head.
Easy to fasten and adapt to all situations, resistant and inexpensive.

Whale



WHALE recess-fit deck shower

Removable 2.10-m hose connected to the deck shower. 1/2" thread white ABS hose adaptor for connection.

Type	With lid	Without lid	Spare shower head
Cold/hot water	**17.030.06**	**17.031.06**	**17.030.99**

OSCULATI

Deck shower with Mizar push-button shower head and mixer

Chromed brass shower head, UV-resistant ASA housing. Fitted with hot/cold water mixer.
Model designed to be mounted preferably on the bulkhead, hose exit parallel to the bulkhead.

Code	⟷ mm			Hose	Hose m	Spare mixer	Spare shower head
	recess	depth	Outer dimensions				
15.239.01	195x95	47 (box) + 87 (mixer)	240x145	Net PVC	2.5	**17.051.01**	**15.242.02**
15.239.02	195x95	47 (box) + 87 (mixer)	240x145	Net PVC	4	**17.051.01**	**15.242.02**

Mizar spare shower head

Code	Model	Material
15.242.02	Push-button	Brass + plastic

Desy spare shower head

Code	Model	Material
15.238.03	Lever-operated	Chromed plastic

Spare shower head

Code	Model	Material
15.256.02	Lever-operated	Chromed plastic

Boris spare shower head

Code	Model	Material
15.248.02	Lever-operated	Chromed plastic

Niagara spare shower head

Code	Model	Material
15.249.02	Lever-operated	Chromed plastic

Keji spare shower head

REGISTERED DESIGN / DISEGNO DEPOSITATO

Code	Model	Material
15.237.02	Push-button	Chromed plastic

Tiger spare shower head

Code	Model	Material
15.247.02	Lever-operated	Stainless steel

Keji II Continuum Flow spare shower head

REGISTERED DESIGN / DISEGNO DEPOSITATO

Code	Model	Material
15.237.06	Push button	Chromed brass

White net PVC shower hose

"Full white" model more elegant than the traditional net version.

Code	Length m	Terminal joints
15.210.00	2.5	1/2" F + 3/8" F
15.210.01	4	1/2" F + 3/8" F

White nylon net shower hose

Made of nylon, with EPDM inside. Compared to net PVC hoses, it's extremely flexible and can be positioned more easily in its housing.

Code	Length m	Terminal joints
15.198.00	2.5	1/2" F + 3/8" F
15.198.01	4	1/2" F + 3/8" F

Polished stainless steel shower hose

Made of stainless steel with EPDM inside. Compared to net PVC hoses, it's extremely flexible and can be positioned more easily in its housing.

Code	Length m	Terminal joints
15.199.00	2.5	1/2" F + 3/8" F
15.199.01	4	1/2" F + 3/8" F

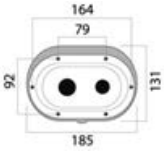
3/8" to 1/2" adaptors for shower hoses

Code	⟷	For showers
15.252.00	3/8" to 1/2"	**15.242.00; 15.242.01; 15.244.00; 15.244.01; 15.254.01; 15.256.00; 15.256.01; 15.251.00; 15.240.01; 15.240.02; 15.240.20; 15.240.21; 15.240.30; 15.240.31; 15.240.33; 15.240.34**

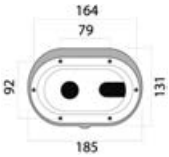
Spare parts for deck showers

Code	Description	Version	Shower outlet	Material	Finish	⟷ mm	
						recess	outer dimensions
15.900.01	Housing for shower head and mixer + plain lid	Oval	Rear	UV-resistant ASA	White	150x80x40	185x131
15.900.02	Housing for shower head and mixer + plain lid	Oval	Cross	UV-resistant ASA	White	150x80x40	185x131
15.900.03	Plain lid	Oval	-	UV-resistant ASA	White	-	-
15.900.04	Plain lid	Oval	-	ABS	Chromed	-	-
15.900.05	Housing for shower head and mixer + plain lid	New Edge	Rear	UV-resistant ASA	White	148x74x40	180x105
15.900.06	Housing for shower head and mixer + plain lid	New Edge	Cross	UV-resistant ASA	White	148x74x40	180x105
15.900.07	Plain lid	New Edge	-	UV-resistant ASA	White	-	-
15.900.08	Plain lid	New Edge	-	ABS	Chromed	-	-
15.900.09	Housing for shower head + silk-screen printed lid	New Edge	Rear	UV-resistant ASA	White	Ø70x40.5	88x95
15.900.10	Housing for shower head + silk-screen printed lid	New Edge	Cross	UV-resistant ASA	White	Ø70x40.5	88x95
15.900.11	Plain lid	New Edge	-	UV-resistant ASA	White	-	-
15.900.12	Plain lid	New Edge	-	ABS	Chromed	-	-
15.900.13	Housing for shower head + silk-screen printed lid	Classic Evo	Rear	UV-resistant ASA	White	Ø70x44	Ø95
15.900.14	Housing for shower head + silk-screen printed lid	Classic Evo	Cross	UV-resistant ASA	White	Ø70x44	Ø95
15.900.15	Plain lid	Classic Evo	-	UV-resistant ASA	White	-	-
15.900.16	Plain lid	Classic Evo	-	ABS	Chromed	-	-
15.900.17	Housing for shower head + silk-screen printed lid	Classic/Elegant	Rear	UV-resistant ASA	White	Ø70x41.5	98.5x106
15.900.18	Plain lid	Classic/Elegant	-	UV-resistant ASA	White	-	-
15.900.19	Housing for shower head + cap/gasket	-	Rear	-	White	-	-

◢15.900.01



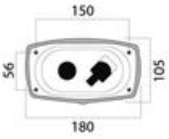
◢15.900.01



◢15.900.02

◢15.900.04

◢15.900.06



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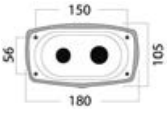

◢15.900.05

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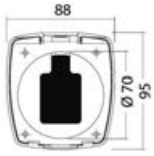
◢15.900.09



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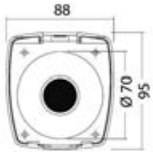

◢15.900.10

◢15.900.12

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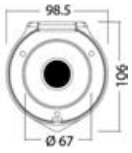
◢15.900.14

◢15.900.16

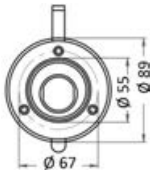
◢15.900.17



◢15.900.17

◢15.900.18

◢15.900.19



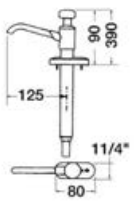
◢15.900.19

► WHALE taps and foot pumps

Hand pump WHALE MK6

Ideal as emergency pump, swivelling, adjustable by height, made of **nylon, aluminium and stainless steel.**

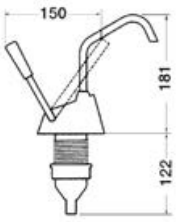
Code	Hose adaptor mm	Materials
15.650.00	13	nylon + aluminium + stainless steel



WHALE Flipper MK4 hand pump

Self-priming with swivelling spout.

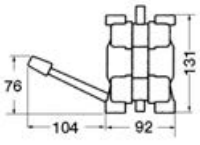
Code	Capacity l/m	Hose adaptor size mm
15.418.00	6.8	13



WHALE Gusher MK3 foot pump

Adjustable hose connector, 3 possible mounting positions, self-priming features.

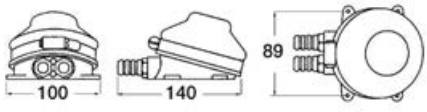
Code	Capacity l/m	Hose adaptor mm	Maintenance kit
15.550.00	16	15	**15.550.99** Whale Gusher Mk3



WHALE Baby Foot MK2 self-priming foot pump

Self-priming foot-operated pump designed for easy installation and use. Ideal for a simple fresh water system. Angled upper section. Compact size for installation in confined spaces.

Code	Capacity l/m	Hose pipe mm	Materials
15.461.80	8	13	nylon, neopree and stainless steel



WHALE Tiptoe MK4 foot pump

Foldable pump, the pumping button is released by rotating the foot.

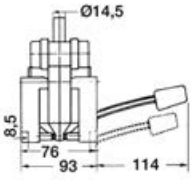
Code	Capacity l/m	Materials
15.130.90	7	nylon + nitrile + stainless steel

► Foot pumps

Sink double-acting foot pump

Swivelling inlet/outlets, neoprene diaphragm, **nylon** body.

Code	Max capacity l/m	Hose adaptor mm
15.253.00	9	14.5



► WHALE hand pumps

WHALE plastic bilge pump

Top quality pump fitted with drain spiral pipe and terminal outlet.
Suitable for gasoil pouring. Sold in display package.

Code	Flow l/m	Body length mm
15.264.35	19/32	380
15.264.55	19/32	580

Manual pump WHALE “Smart Bail”

Fitted with built-in handle; easy to install with just two fastening screws; equipped with built-in gasket thus it does not require the use of silicone; very compact, may be installed in all positions; removable swivelling rear clip-on hose-adaptor; made in accordance with ISO 15083 standards.

Code	Intake	Head	Max head	45 cycles/min	60 cycles/min	Hose adaptor mm
15.360.25	0 m 1 m	0 m 1 m	3 m	38.50 l/min 32.75 l/min	51.33 l/min 43.60 l/min	25
15.360.38	0 m 1 m	0 m 1 m	3 m	43.50 l/min 43.50 l/min	58 l/min 58 l/min	38

WHALE "Compact 50" pump

Designed for concealed installation, ideal for mounting in confined spaces, fitted with swivelling inlet and outlet jointly with a lower casing. **Also suitable for transferring diesel fuel**. Made of **polypropylene**, fiberglass and nylon 66 reinforcements. Includes handle and clip-in trap door.

Code	Mounting with	Depth mm	Body mm	Capacity l/m	Hose adaptor mm	Repair kit
15.350.00	4 screws	127	199x196	40	25	**15.350.01**

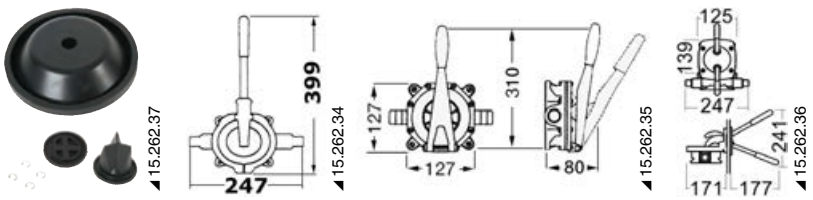
15.350.01 *Maintenance kit: diaphragm, valves and screws.*
15.350.99 *Closing ring and screws.*
15.350.98 *Deck sealing kit and screws.*

WHALE hand bilge pump

Obligatory on all boats in category A and B, in accordance with current EC standards.
High quality product, made with the best materials on the market.

Code	Version	Handle type	Max flow l/m	Hose adaptor mm	URCHIN pump repair kit
15.262.35	GUSHER URCHIN	Fixed	37	25/38	**15.262.37**
15.262.36	MKIII GUSHER URCHIN *	Removable + Trapdoor	37	25/38	**15.262.37**
15.262.34	GUSHER URCHIN	Removable	37	25/38	**15.262.37**

* *Includes adaptor for concealed installation.*



WHALE MKV pulsatile pump

Fitted with **stainless steel removable** handle, neoprene diaphragm, immediate inspection from the inside through the snap-on cover; can suction any type of liquid, including diesel fuel.

Code	Max capacity l/m	Hose adaptor mm	Mounting	Repair kit	Watertight trap door, only	kg
15.268.01	75	38	Floor, wall or behind the bulkhead	**15.268.04**	**15.268.05**	1.1
15.268.03	75	38	Specific for mounting behind the bulkhead (with watertight trap door) 15.268.05	**15.268.04**	**15.268.05**	1.1

Maxi pump WHALE

Made up of two combined MKV pumps; removable handle; concealed installation behind the bulkhead, fitted with trapdoor (to be ordered separately). The entry joints may be removed in order to have two separate pumps and suction from two different bilges, even if one is dry.

Code	Capacity l/m	Hose adaptor mm	Head m	⟷ mm handle excluded	Manhole	Repair kit
15.270.00	136 (with 70 turns)	38	4.5	234(h) x 292(w) x 203(d)	**15.268.05**	**15.268.04**

◢ 15.268.04

◢ 15.268.05

► Hand pumps

Small double-acting pump

Suitable for extracting oil from the motor sump, or petrol, water, etc.

Code	Cc pump/capacity	Length mm
15.260.00	80	230

Bilge pumps for suction/pressing

Provide easy control of the suctioned liquid, supplied with terminal extension and special discharge **spiral** hose.

Code	Body length mm	Ø mm
15.263.35	390	50
15.263.55	550	50

Bilge pump for suction/pressing

Equipped with 95-cm drain tube.
Ergonomic grip handle.

Code	Body length mm	Ø mm
15.265.01	390	44
15.265.02	550	44
15.265.03	1000	44

Double acting hand pump, designed to suction oil

Fitted with nylon hose for fitting onto oil sidepiece and drainage pipe; also suitable for draining needy bilges.

Code	Length mm
15.259.01	390

Manual double-acting bilge pump

Fitted with central SOFT sleeve for better intake. Drain hose cm 100.

Code	Body length mm	Ø mm
15.263.00	440	44

Bulkhead hand pump, fixed lever

For surface mounting. Compact and sturdy, made from anti-corrosion materials.

Code	Capacity l/pump cycle	Lever	Size mm	Hose adaptor mm	Spare gasket kit
15.262.20	0,33 (30 - 60 pumps/minute)	fixed	180x125x75	25	**15.262.21**

15.262.28

15.350.99

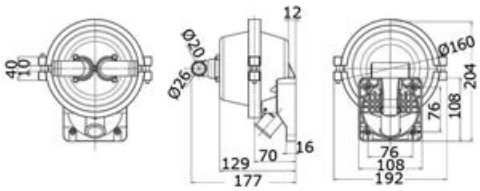
Hand pump foldable behind the bulkhead

Fitted with locking trap door and joints for **adjustable** pipes on the back.

Code	Flow	Lever	Dimensions mm	Hose adaptor mm	Spare gasket kit with trap door
15.262.25	22 litres per 30 pumping cycles	Pull-out	177x192x204	25	**15.262.28**

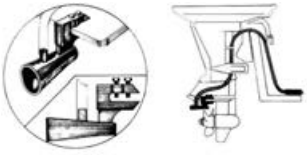
15.262.27 *Replacement door in **grey**. Recommended for aluminium yachts*
15.350.99 *Closing ring and screws.*

15.262.27

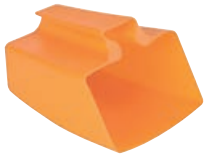


PIPER PUMP vacuum self-emptying

15.266.00 Made of **anodized aluminium**; fitted with hose and **stainless steel** clamp for mounting the hose to the pump; universal size for all **outboard** engines.



► Bailers



Regulation bailer

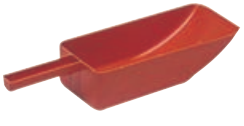
Made of orange polyethylene. Resistant to high and low temperature.

Code	Color	⟷ mm
15.801.05	Orange	180x140x110

High-quality bailer

Made of moplen, for fast emptying.

Code	Volume litrres	⟷ mm
15.801.04	3.00	220x168x155



Eltex bailer

Designed for hand bailing, fuel resistant.

Code	Version	Length mm
15.801.01	Small	360x110
15.801.02	Large	410x220

Eltex funnel bailer

With strainer. Resistant to hydrocarbons.

Code	Description
15.801.03	Designed for bailing and transferring fuel.

► Europump fresh water pumps

OSCULATI

Europump 4 low-consumption fresh water pump

CE

It can feed 2 taps at the same time.
Fitted with circuit breaker against overloads. It can run dry without damage.

Code	Pressure switch		Flow l/min	Current draw A	Hose adaptor Ø mm	Overall dimensions mm	Spare pressure switch
	version	calibrated at					
16.503.12	automatic	2,8 BAR/40 PSI	3.8	2.6	10	170x100x60	**16.540.01**

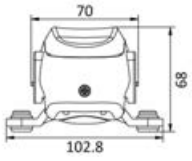
New — Europump 4 New Generation fresh water pump

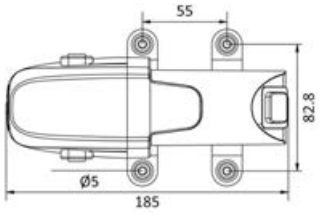
CE

IP 54

It can serve two outlets. Overload protection.
It can run dry without getting damaged. IP54 watertight. Self-priming up to 1.5 metres. Pulsation-dampening by-pass system.

Code	V	Flow l/min	Current draw A	Working pressure bar	Snap hose mm
16.501.12	12	5.6	4.5	2.8	10





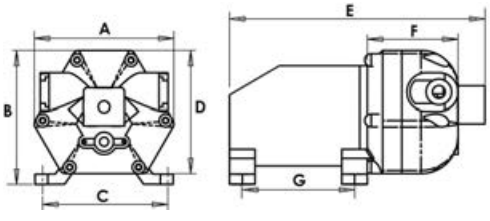
Europump 3-diaphragm self-priming fresh water pump

CE

It can run dry without damage, no vibrations, very quiet.
Fitted with internal bypass for inlet pressure control.
Permanent magnet motor with self-lubricating shaft.
Circuit breaker against unwanted overheating.
4 plug-in fittings (2 x 1/2" threads + 1 x 14-mm straight hose adaptor + 1 x 14-mm 90° hose adaptor) and **plug-in inlet strainer**,

Code	Type	V	Flow l/min	Current draw A	Operating pressure bar	⟷ mm						
						A	B	C	D	E	F	G
16.509.12	Europump "8"	12	8	5	2	110	106	77	98	240	85	59
16.510.12	Europump "11"	12	11	6	3	110	106	77	98	240	85	59

16.540.03 *Spare pressure switch for 16.509.12*
16.540.04 *Spare pressure switch for 16.510.12*
16.533.01 *Spare filter*



Europump 4-diaphragm self-priming fresh water pump

CE

It can run dry without damage, no vibrations, very quiet.
Fitted with internal bypass for inlet pressure control.
Permanent magnet motor with self-lubricating shaft.
The 4-diaphragm system prevents the pulsations that usually occur in the other fresh water pumps with a semi-open tap.
4 plug-in fittings (2 x 1/2" threads and 2 x 14-mm with 1/2" hose adaptors) and a plug-in inlet **strainer**.

Code	Type	V	Flow l/min	Current draw A	Operating pressure bar	⟷ mm	Spare parts	
							Pressure switch	Filter
16.512.12	Europump 12	12	12.5	4	2.45	213x105x95	**16.540.01**	**16.533.01**
16.512.24	Europump12	24	12.5	2	2.45	213x105x95	**16.540.01**	**16.533.01**
16.517.12	Europump 18	12	17	6	2.80	257x105x95	**16.540.02**	**16.533.01**
16.517.24	Europump 18	24	17	2.5	2.80	257x105x95	**16.540.02**	**16.533.01**

Europump combined fresh water pump and accumulator tank

CE The system includes a 4-diaphragm fresh water pump fitted with a 1-litre stainless steel accumulator tank and an inlet strainer.
280x260-mm base made of sturdy ABS size.
Mounting by means of 4 vibration-damping grommets.
1/2" inlet fittings or 14-mm hose adaptors. 1/2" female outlet fitting.

Code	V	Flow l/min	Installed fresh water pump	SS tank
16.506.03	12	12	Europump 16.512.12	16.126.01

Europump Washdown pump for deck washing

CE It combines a fresh water pump 16.517.12/24 fitted with strainers and a trigger nozzle 36.189.00 + 36.189.01 + 36.189.02. Ideal for washing decks, bilges, anchors, sterndrive units and propellers.**Strainer and 4 fittings.**

Code	V	Spare parts	
		pressure switch	filter
16.520.12	12	**16.540.02**	**16.533.01**
16.520.24	24	**16.540.02**	**16.533.01**

Washdown kit

It includes:
- 1 x high-pressure 4.2-bar 5-diaphragm fresh water pump.
- 1 x strainer.
- 1 x trigger nozzle.
- 2 x 12-mm hose adaptors.
- 1 x 7.5-m self-coiling hose.

It also works with salt water.

Code	V	Flow l/min	Current draw A	Pressure bar
16.521.12	12	21.18	17	4.8
16.521.24	24	21.18	10	4.8

OSCULATI

Europump 4-diaphragm self-priming bilge pump

CE It can run dry without damage. Also ideal as drain pump for **grey water** tanks.
Strainer + 4 fittings (2x1/2" threads + 2x14-mm with 1/2" hose adaptor).

Code	V	Flow l/min	Current draw A	Mounting top level	⟷ mm	Spare filter
16.525.12	12	17	9.2	up to m 1.80 above the level	240x105x95	**16.533.01**
16.525.24	24	17	5.6	up to m 1.80 above the level	240x105x95	**16.533.01**

OSCULATI

Europump water circulation pump

CE Used in heat exchangers, fridge systems and air cooling systems.
Ideal as delivery pump for watermakers.
Silent, low consumption. **Strainer + 4 fittings.**

Code	V	Flow l/min	Current draw A	⟷ mm	Spare filter
16.530.12	12	6	1.2	200x105x95	**16.533.01**
16.530.24	24	6	0.6	200x105x95	**16.533.01**

Europump Aquatec Sensor 4-diaphragm fresh water pump

Electronic system keeping the pressure constant but allowing the water flow variation **avoiding pulsations** by opening the tap.

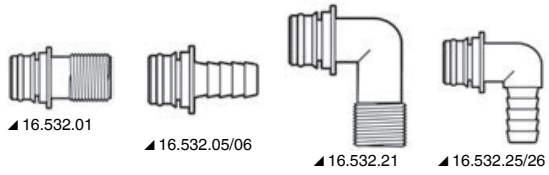
Code	V	Flow l/min	Max current draw A	Max pressure bar	⟷ mm	OPTIONAL filter
16.514.00	12/24	13.5	7	35 PSI/2.45 BAR	238x114x104	**16.544.10**

Snap hose connection. 2 x 1/2" hose adaptors + 2 x 5/8" straight and elbow hose adaptors (total 4 pcs) included

Europump plug-in quick fittings

CE Plug-in quick fittings for Europump pumps and fresh water pumps

Code	Type	Code	Type
16.532.01	1/2" straight thread	**16.532.21**	1/2" 90° thread
16.532.05	14mm Ø straight	**16.532.25**	Ø 14mm 90°
16.532.06	19mm Ø straight	**16.532.26**	Ø 19mm 90°



Europump spare pressure switch for fresh water pumps

CE Pressure switch for Europump fresh water pumps

Code	For pumps
16.540.01	**16.506.03;16.503.12; 16.512.12; 16.512.24**
16.540.02	**16.517.12; 16.517.24; 16.520.12; 16.520.24**
16.540.03	**16.509.12**
16.540.04	**16.510.12**

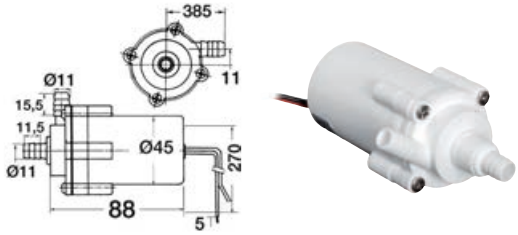
Europump strainers

16.533.01 Spare strainer with stainless steel mesh.
Plug-in mounting into the pump, quick fittings series 16.532.XX.
Also suitable for Flojet and Jabsco pumps.

Centrifugal pump for sinks

To be installed flush with the tank base. Non self-priming.

Code	V	Flow l/min	Head m	Hose adaptor Ø mm	⟷ mm
16.184.74	12	6.6	2	11	88x45



► WHALE fresh water pumps

WHALE Watermaster fresh water pump

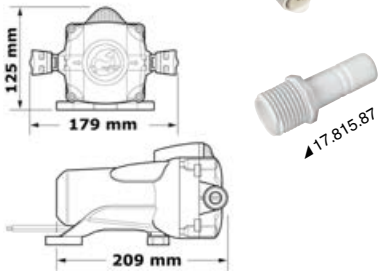
+IP65

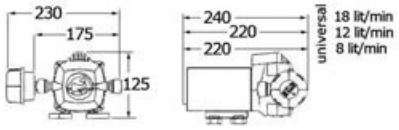
An evolution of the Universal model, the Watermaster 4-diaphragm pump with automatic pressure switch is even quieter and gives high flow rates for systems up to 4 taps.
IP65 rated fully sealed protective motor housing.
Self-priming up to 3 metres, it works well in dry mode or in salt water.
Fitted with a third wire to be connected to a warning light indicating operation.
Inlet strainer.

Code		V	Flow l/min	Current draw A	Pressure Bar	Inlet/Outlet fitings
RETAIL (1pcs)	BULK (10pcs)					
-	**16.700.12**	12	8	4	2	quick fitting for 15-mm hose
16.700.15	**16.700.13**	12	11.5	8	3	quick fitting for 15-mm hose

16.700.19 *Inlet strainer*

17.815.87 *Fittings for 1/2" male outlet.*





WHALE Universal fresh water pump

Very quiet pump. Three models available for 2, 4 and 6 outlets or showers (8, 12 or 18 l/min flow), smooth constant flow, it can run dry without damage, extra protection and safety with wires and pressure switch housed internally, self-priming up to 3 metres, swivelling feet adapt to any existing installation bores. All models include quick fitting strainer.
Suitable for use with salt water.

Code	V	Flow l/min	Current draw A	Bar	Inlet	Outlet
16.700.01	12	8	5	3	15-mm quick fitting	15-mm quick fitting
16.700.02	12	12	8	3	15-mm quick fitting	15-mm quickfitting
16.700.04	12	18	12	3	15-mm quick fitting	3/4" male thread
16.700.05	24	18	8	3	15-mm quick fitting	3/4" male thread

16.700.19 *Inlet strainer*
17.815.87 *Fitting for BSP 1/2" male threaded outlet.*
17.815.40 *Joint for 3/4" female threaded outlet.*

Easy installation - suitable for 15mm quick connect plumbing direct connection (Whale, John Guest and similar)

WHALE combined fresh water pump and accumulator tank

The system includes one 4-diaphragm fresh water pump fitted with a 1-litre stainless steel accumulator tank and inlet strainer. 280x260-mm base made of sturdy ABS.
Mounting by means of 4 vibration-damping grommets, 15-mm inlet and outlet **quick fittings**.

Code	V	Flow l/min	Installed fresh water pump	SS tank
16.506.01	12	12	WHALE 16.700.02	16.126.01
16.506.02	24	18	WHALE 16.700.05	16.126.01

WHALE Water System quiet automatic fresh water pump

8-litre accumulator tank.
Very compact and fitted with support for easy installation. It can run dry without damage.

Code	V	Flow l/min	Current draw A	Quick fitting Inlet/Outlet mm	Pressure bar	Head m	Inlet max	⟷ mm
16.701.12	12	12	8	15	3	20	3	200x300x350
16.701.24	24	18	8	15	3	30	3	200x300x350

WHALE high-flow rate fresh water pump

- Two pumps and an accumulator tank ensure a constant water flow rate up to 8 outlets.
- The efficient control systems activates one or two pumps depending on the flow rate required.
- The accumulator tank reduced noisiness and vibration by avoiding the pumps to repeatedly switch on and off.
- The industrial-type external pressure switches have sparkle protection and relays are not needed.
- Retrofitting or installation on new equipment
- Pre-assembled kit for quick installation includes: 2 integrated pumps, 2 external pressure swithces, 2 strainers, 1 accumulator tank, mounting brackets and fittings.
- Mounting brackets with vibration-damping feet for reduced dimensions at the base.

Code	V	Flow rate l/min	Accumulator tank	Max current draw A	Pressure bar	Inlet/outlet quick coupling mm	Outlets	Max inlet m
16.702.12	12	24	2 litres	10	3	19	up to 6	3
16.703.24	24	32	2 litres	8	3	19	up to 8	3

WHALE washdown pump

3-bar (45 PSI) high flow pump 16.700.04; 16.700.05 (18 l/min) + trigger nozzle with plug-in fitting 36.189.00; 36.189.01; 36.189.02.

Code	V	bar
16.700.06	12	3
16.700.07	24	3

► FLOJET fresh water pumps

FLOJET

FLOJET self-priming fresh water pump fitted with 3 valves

3-diaphragm version, it can run dry without damage.
Quiet operation, **pulsation-dampening** bypass.
4 fittings (2 x 1/2" threads and 2 x 14-mm with 1/2" hose adapters) and inlet strainer.

Code	V	Flow l/min	Current draw A	PSI	⟷ mm
16.206.12	12	2.5/7.5	1.9	22	101x101x152
16.207.12	12	2.5/11	2.9	22	127x127x152

FLOJET self-priming fresh water pump fitted with 4 valves

It can run dry without damage. **4-diaphragm** inlet system to prevent vibrations.
Special internal bypass that protects the pump against incoming overpressure when the pump is connected to the ground water supply network.
Permanent magnet motor fitted with shaft bearing.

Code	V	Flow l/min	Current draw A	Self-priming up to m	Fittings	⟷ mm	Service kit
16.440.50	12	From 3,8 to 14,7	2.8	1.80	1/2" threaded bayonet fittings	97x156 x207	**16.409.43**

New JABSCO Washdown Par-Max 6 Plus pump kit

Ideal for washing down, this kit includes a Par-Max 6 Plus pump (increased pressure 4.8 bar), a strainer, a self-coiling hose and a trigger nozzle

Code	V	Flow l/min	Max current draw A	Max pressure bar	Fuse A	⟷ mm
16.437.01	12	23	20	4.8	25	269x120x130
16.437.02	24	23	10	4.8	15	269x120x130

New JABSCO Par-Max Plus fresh water pump

Constant flow, very silent, self-priming up to 3 m, sealed manostat tested for up to 4 million cycles.
The pump can run dry without getting damaged.
IPX6 watertight in compliance with ISO 8846 standards.

Code	V	Flow l/min	Max current draw A	Max pressure bar	Ampere	⟷ mm
16.436.01	12	15	9.5	2.8	12	269x120x130
16.436.02	24	15	5	2.8	6	269x120x130
16.436.03	12	23	12	2.8	17	269x120x130
16.436.34	24	23	6	2.8	8	269x120x130

New JABSCO DiMOND V-FLO 5 fresh water pump

Variable-flow, constant-pressure fresh water pump with performance self-diagnostic test to prevent possible issues (lack of water, circuit losses, low voltage, etc.)

Code	V	Max flow l/min	Max current draw A	Max working pressure PSI/Bar	⟷ mm	Fittings
16.435.73	12	19	15	40/2.75	110x156x251	2 x 1/2" thread + 2 x 1/2" with hose connector
16.435.74	24	19	10	40/2.75	110x156x251	2 x 1/2" thread + 2 x 1/2" with hose connector

Spare fittings for FLOJET pumps

Code	Size	Type	ORDER BY BOX
16.204.06	1/2"	hose adaptor for clamp mounting	2
16.204.07	1/2"	thread	2

FLOJET spare service kit fitted with diaphragm

Code	For pumps
16.409.43	**16.440.50**

Pressure switch for FLOJET fresh water pumps (switch assembly)

Code	For pumps
16.901.04	**16.440.50**
16.901.18	**-**
16.901.21	**16.207.12**

FLOJET washable water strainers

Version A: plug-in right-angle fittings for the FLOJET pump inlet.
40-mesh strainer for **fresh water** and general purposes.
Version B: in-line fittings and fastening support.
Universal size for any pump or fresh water pump.

Code	Version	Fittings	⟷ mm
16.408.02	A	plug-in fitting + 19mm hose adaptor	70x57
16.408.03	A	plug-in fitting + 1/2" thread adaptor	70x57
16.408.05	B	2 x 12mm fittings	70x57
16.408.06	B	2 x 19mm fittings	70x57

► Fresh water pumps

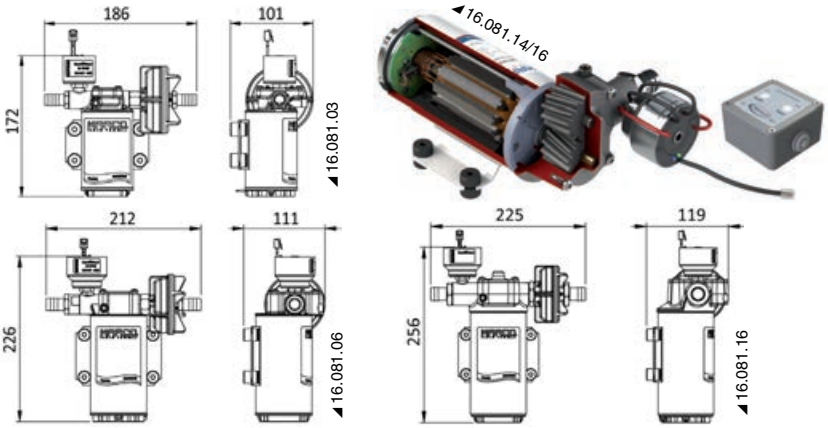
MARCO electronically-operated automatic fresh water pump

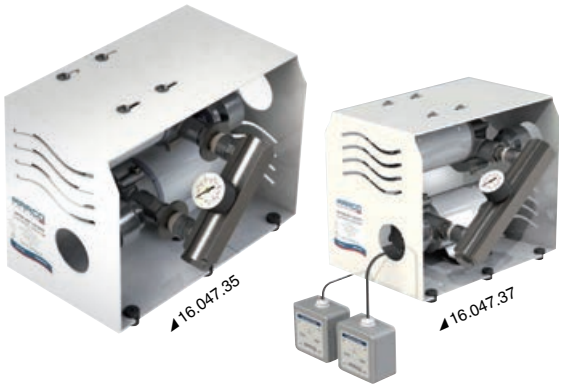
INTEGRATED FLANGE

Self-priming with polymer gears.
Pressure, current and voltage constant control.
Automatic stop when running out of liquid.

Nickel-plated brass body, stainless steel shaft, FKM seals.
The engine progressively increases its revolutions to reach the required flow and ensure long working cycles, lower noisiness and consumption optimization.
The pump is fitted with circuit breaker and overvoltage protection device.
A protection system engages after 90 seconds of dry running.

Code	Initials	V	Max flow l/min	Current draw A		Pressure bar	Control panel
				12V	24V		
16.081.02	UP2/E	12/24	10	3/6	1.5/3	2	- -
16.081.03	UP3/E	12/24	15	4/8	2/4	2.5	**16.081.20** OPTIONAL
16.081.06	UP6/E	12/24	26	5/15	2.5/7.5	2.5	**16.081.20** OPTIONAL
16.081.12	UP12/E	12/24	36	20/32	10/16	2.5	**16.081.20** OPTIONAL
16.081.14	UP14/E	12/24	46	17/33	8.5/17	2.5	**16.081.20** INCLUDED
16.081.16	UP14/E	24	46	-	8/13	3.5	**16.081.20** INCLUDED





New — MARCO electronically-operated double fresh water pump

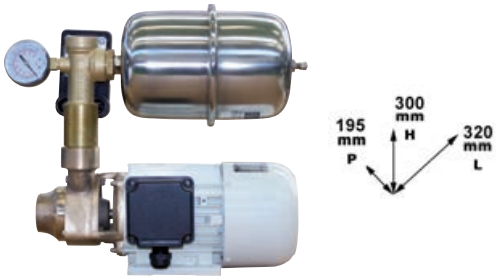
Double version with two electronically-operated pumps working in series.
If one of the pumps breaks down, water delivery isn't cut off because the other pomp is still operating.
Motor speed adapting to the flow. Reduced current draw and noise levels.
No accumulator tank.
Fitted with overvoltage protection device and a protection system against dry running.
The pump operation can be monitored by means of 2 LED lights.

Code	Type	V	Max flow rate l/min	Current draw A		Pressure bar	⟷ mm	2 control panels
				12 V	24 V			
16.047.35	UP6/E-DX	12/24	52	16	8	2.5	282x300x235	**16.081.20** INCLUD
16.047.37	UP14/E-DX	24	92	-	18	3.5	295x300x265	**16.081.20** INCLUD

New — MARCO high-pressure washdown kit

Ideal for washdown operations with fresh and salt water.
Includes:
- high-pressure self-priming electropump
- 15-m extensible hose
- snap-in spray nozzle, jet lock, check valve and trigger to adjust the flow.

Code	Initials	V	Max flow rate l/min	Current draw A	Pressure bar	Fuse	⟷ mm
16.082.01	DP12/E	12/24	15	24	6	25	242x212 x113



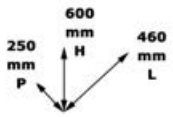
CEM fresh water pump with bronze body and accumulator tank

Bronze pump unit also suitable for use with **salt water** such as washdown.
Stainless steel accumulator tank. Self-priming pump. A check valve needs to be mounted onto the inlet pipe. Fitted with pressure switch and relay.

Code	V	Flow l/min	Motor				Pressure switch setting bar	Hose adaptor	Tank l	kg
			HP	W	rpm	A				
16.061.24	24	36	0.65	480	3000	22	1.4-2.8	1"	2	25

CEM fresh water pump with accumulator tank

Stainless steel pump unit and accumulator tank.
Self-priming pump. A check valve needs to be mounted onto the inlet pipe.
Fitted with pressure switch and relay.



Code	V	Flow l/min	Motor				Max pressure bar	Pressure switch setting bar	Hose adaptor	Tank l
			HP	W	rpm	A				
16.062.12	12	50	0.7	520	2400	40	3.8	1.4-2.8	1"	20
16.062.24	24	50	0.8	600	2600	28	4.8	1.4-3.0	1"	20

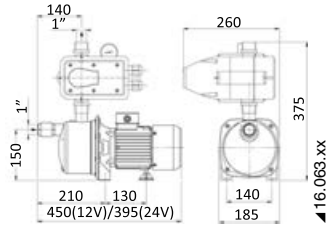
CEM electronically-operated fresh water pump

Stainless steel pump unit. Self-priming pump.
EPC (Electronic Pressure Control) system:
- Pump automatic stop when water supply has run out (to prevent the pump from running dry)
- Operation constant monitoring by means of warning lights: green light "Line"= pump on; red light" Failure": pump off due to fault (e.g. running out of water).
- Constant pressure during water supply.
- Reduced overall dimensions in comparison with traditional fresh water pumps with tank.

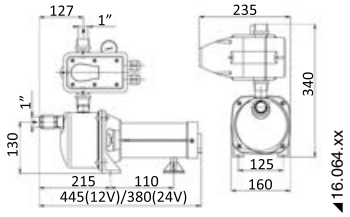
◢16.063.xx

◢16.064.xx

Code	V	Flow l/min	Head m	Motor				Hose adaptor	kg
				HP	W	rpm	A		
16.064.12	12	55	28	0.4	300	2200	33	1"	7
16.064.24	24	55	30	0.5	400	2600	16	1"	7
16.063.12	12	50	30	0.7	520	2400	40	1"	11.5
16.063.24	24	50	38	0.8	600	2600	28	1"	11.5



◢16.063.xx



◢16.064.xx

► Accumulator tanks

Universal accumulator tank for fresh water pumps

Made of ABS, it can be retrofitted to any fresh water pump on the market.
It prevents the typical pulsations when the tap is opened at a minimum rate.

Code	Flow l	Max pressure	Hose adaptor
16.125.00	1	6 Atm	1/2" female

Accumulator tank

Made of ABS.

Code	Volum l	Max pressure	Fittings	Hose adaptors included
16.127.00	0.75	8.6 bar	1/2"	2 to 13 mm

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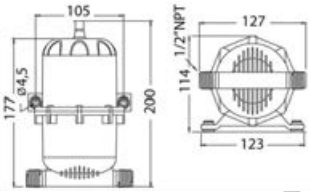
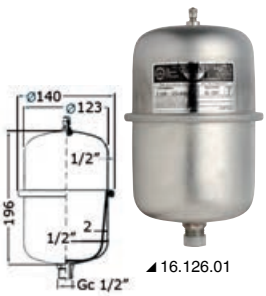


Universal accumulator tank for fresh water pumps and water heaters

It prevents the hammering effect when taps aren't opened at the maximum rate and when **hot water volume increases** in the water heaters.
Polished stainless steel body and **butyl** diaphragm.

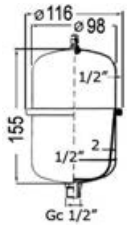
◢16.126.00



◢16.126.01

Code	Fitting	Flow rate l	Working pressure bar	Ø mm	Height mm	OPTIONAL in-line hydraulic joints	Bracket
16.126.00	1/2"	2	1/10	130	196	**17.318.02; 17.115.07**	Yes
16.126.01	1/2"	1	1/10	116	155	**17.318.02; 17.115.07**	No

◢16.126.00



◢16.126.01

Submersible bilge pumps

CE certified by RINA in compliance with Law 94/25, directive ISO 8846

EuroPump
by OSCULATI

► Europump submersible bilge pumps

Europump II submersible bilge pump

OSCULATI

CE certified by RINA in compliance with Law 94/25, directive **ISO 8846**

Code	Europump model	V	Flow l/min		Current draw A	Max Head m	Base Ø mm	Height mm	Hose adaptor Ø mm
			Max	with 2m head					
16.122.02	550	12	32	25	4	4.50	60	93	19
16.122.05	800	12	51	25	5.5	4.50	88	120	19
16.122.06	1000	12	64	30	5.5	4.50	88	120	29
16.122.07	1000	24	64	30	3.5	4.50	88	120	29
16.122.04	1100	12	60	32	5	4.50	60	107	29
16.122.10	1500	12	96	46	8	3.10	120	150	29
16.122.11	1500	24	96	46	5	3.10	120	150	29
16.122.14	2000	12	128	65	11	3.50	120	150	29
16.122.15	2000	24	128	65	6	3.50	120	150	29
16.122.18	3000	12	192	100	13	6.00	132	180	32
16.122.19	3000	24	192	100	8	6.00	132	180	32

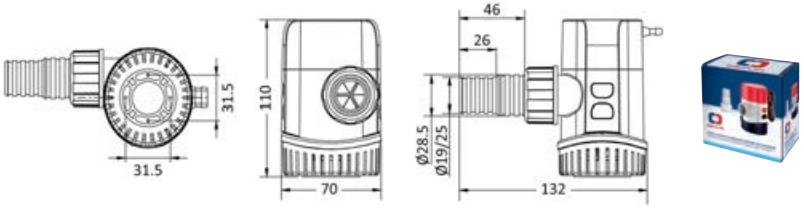
New

Europump Next Generation submersible bilge pump

OSCULATI

CE-certified in compliance with the **ISO 8846/8849** directive.
Extremely compact in size, fitted with backflow **check valve**.
Removable hose connector adjustable at 360°.

Code	V	Model	Flow l/min	Current draw A	Head m	Ø-Hose adaptor mm	90° Hose adaptor Ø 29 mm OPTIONAL
16.128.01	12	600	38	2.5	2.5	19/29	**16.128.00**
16.128.05	12	1100	70	4.0	4	25/29	**16.128.00**
16.128.06	24	1100	70	2.5	4	25/29	**16.128.00**



Europump II automatic bilge pump

OSCULATI

Very compact, with built-in electronic level sensor.
ABS body, stainless steel shaft. Reduced current draw.
Removable from plug-in base.
CE certified by RINA in compliance with Law 94/25, directive ISO 28846/28849.

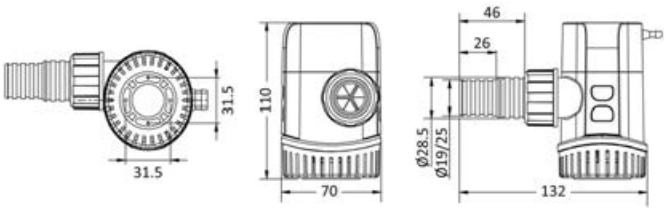
Code	Type	V	Flow l/min	Current draw A	Head m	Hose adaptor (Ø A) mm
16.124.01	G600	12	38	2.5	2.5	19
16.124.03	G750	12	48	3	3	19
16.124.04	G750-24	24	48	1.6	3	19
16.124.05	G1100	12	70	4.0	3.2	29
16.124.06	G1100-24	24	70	2.0	3.2	29

OSCULATI

New Europump Next Generation automatic submersible bilge pump

CE-certified in compliance with the **ISO 8846/8849** directive.
Compact in size, fitted with an electronic timer sensing automatic system to check the presence of water every 2.5 minutes for a duration of 0.5 seconds.
Removable hose connector adjustable at 360°.
Fitted with backflow **check valve**.

Code	V	Model	Flow l/min	Current draw A	Head m	Hose adaptor Ø mm	OPTIONAL 29-mm Ø 90° hose adaptor
16.129.01	12	600	38	2.5	2.5	19/29	**16.128.00**
16.129.03	12	750	51	3.5	3.0	19/29	**16.128.00**
16.129.04	24	750	51	2.0	2.0	19/29	**16.128.00**
16.129.05	12	1100	70	4.0	4.0	25/29	**16.128.00**
16.129.06	24	1100	70	2.5	2.5	25/29	**16.128.00**



OSCULATI

Europump II automatic bilge pump

Manufactured in compliance with Law 94/25 and the Directive ISO 8846.
The pump activates when the bilge water level is 7 cm and stops when water has been totally drained.
CE certified by RINA in compliance with Law 94/25, directive ISO 28846/28849.

Code	Type	V	Flow l/min	Current draw A	Head m	Hose adaptor Ø mm	⟷ mm
16.122.30	A-1500	12	96	8	4	29	150x150x100
16.122.32	A-2000	12	128	11	4	29	150x150x100
16.122.33	A-2000	24	128	6	4	29	150x150x100

► Submersible pumps

Elephant automatic bilge pump

CE certified in compliance with Directive ISO 8846. Permanent-magnet motor, stainless steel shaft, watertight sealing electrical cables. It can be run in automatic or manual mode.
Removable from plug-in base.

Code	Model	V	Flow l/min	Current draw A	Hose adaptor mm	⟷ mm
16.123.01	500	12	32	1.8	19	151x78x105
16.123.02	750	12	50	3	19	151x78x105
16.123.03	1100	12	75	4	29	151x78x105
16.123.04	1100	24	75	2.2	29	151x78x105

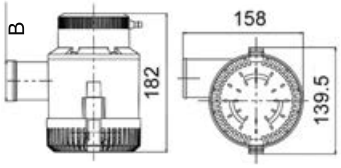
◢ 16.122.35/36

◢ 16.122.47/48

Maxi submersible bilge pump

Made in compliance with the CE/ISO 8846-8849 standard. Silent, it can be pulled out of its base to be cleaned and can be automated by installing whatever circuit breaker having at least 20A power.

Code	Model	V	Max flow l/min	Current draw A	Max head m	Base Ø mm	Height mm	Hose connector B Ø mm
16.122.35	3500	12	221	16	8	139.5	182	40
16.122.36	3500/24	24	221	8	8	139.5	182	40
16.122.47	4700	12	296	17	8	139.5	182	50
16.122.48	4700/24	24	296	9	8	139.5	182	50



WHALE submersible pump

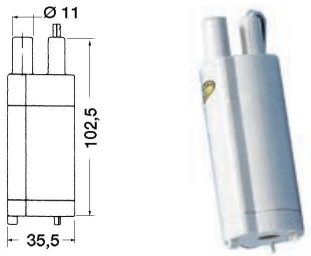
For suction or transfer of fresh or salt water.

Code	V	Flow l/min	Current draw A	Hose adaptor mm	Use
16.921.40	12	11	3	10/13	to be fitted into the tank
16.921.41	24	11	1.6	10/13	to be fitted into the tank
16.921.42	12	11	3	dual 10/13	in line
16.921.43	24	11	1.6	dual 10/13	in line
16.921.50	12	13.4	6	10/13	to be fitted into the tank

CARAVAN certrifugal submersible pump

Designed to be fitted into water cans.

Code	V	Flow l/min	Current draw A	Head m	Hose adaptor Ø mm
16.101.00	12	18	2	2	11



Submersible centrifugal pump

It pumps both water and diesel.
Its cylindrical shape (41-mm Ø) can be easily fitted in jerrycans and tanks.
It can turn continuously up to 20 minutes. It comes with 5-m cable and adjustable pliers.

Code	V	Flow l/min	Current draw A	Head m	Hose connector Ø mm	⟷ mm
16.105.13	12	18	4.5	10	12	175.5x41.1

Europump bilge pump

Very small bilge pump ideal for installation in confined spaces.

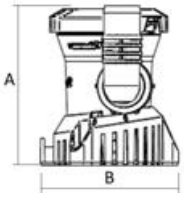
Code	Model	V	Max flow l/min	Current draw A	Head m	Inlet Ø mm	⟷ Ø x h mm
16.613.60	300GPH	12	19	2.0	1.5	19	66x97

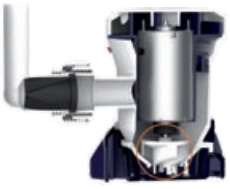
Elephant bilge pump

Features: motor cooled with the water extracted; snap removal of the pump unit from the base and of the motor from the pump unit for easy inspection and cleaning; base with double strainer.

Code	Model	V	Flow l/min	Current draw A	Hose adaptor	⟷ mm
16.125.01	500	12	32	1.8	19 straight and 90°	79x130x116
16.125.02	750	12	50	2.7	19 straight and 90°	79x130x116
16.125.04	1100	12	75	4	28 straight	79x130x116
16.125.06	1100	24	75	2.5	28 straight	79x130x116

attwood





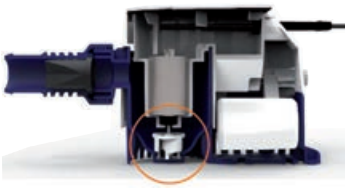
◢ Patented X-Air™ Impeller

New ATTWOOD Tsunami Mk2 bilge pump

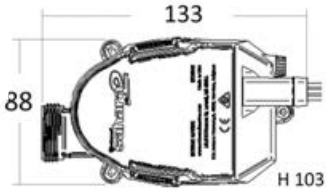
Features:
- Patented X-Air™ Impeller: Prevents air locking so that the pump will not run dry and burn out.
- Flexible Outlets.
- Single-Hand Pump Cartridge Release.
- Exterior Mounting Feet: Eliminates the need to remove the basket.
- Retrofits footprint for existing bilge pump.
- No Pipe Or Hose Removal Required: Reduces the time that it takes to replace the cartridge.
- Tricuspid Check Valve: Helps prevent the water from backflowing through the pump.

Code	Type	ORDER BY BOX	Model	V	Flow l/min	⟷ AxB mm	Ø straight and 90° hose connection mm
16.492.01	RETAIL	1	T500	12	28	93x91	19/25
16.492.02	RETAIL	1	T800	12	42	110x101	19/25
16.492.03	RETAIL	1	T1200	12	52	112x101	25/32
16.492.05	RETAIL	1	T1200	24	52	112x101	25/32

attwood



◢ Patented X-Air™ Impeller



New ATTWOOD Sahara Mk2 automatic bilge pump

Features:
- Patented X-Air™ Impeller: Prevents air locking so that the pump will not run dry and burn out.
- Flexible Outlets.
- Single-Hand Pump Cartridge Release.
- Exterior Mounting Feet: Eliminates the need to remove the basket.
- Retrofits footprint for existing bilge pump.
- No Pipe Or Hose Removal Required: Reduces the time that it takes to replace the cartridge.
- Improved engine cooling.

Code	Type	ORDER BY BOX	Model	V	Flow l/min	Ø of straight and 90° hose connector mm	Hose connector	
							straight	90°
16.490.01	RETAIL	1	S500	12	26	19/25	INCLUDED	INCLUDED
16.490.02	RETAIL	1	S800	12	39	19/25	INCLUDED	INCLUDED
16.490.03	RETAIL	1	S1200	12	69	25/28	INCLUDED	INCLUDED
16.490.05	RETAIL	1	S1200	24	69	25/28	INCLUDED	INCLUDED
16.490.01BU	BULK	12	S500	12	26	19/25	**16.491.91***	**16.491.92***
16.490.02BU	BULK	12	S800	12	39	19/25	**16.491.91***	**16.491.92***
16.490.03BU	BULK	12	S1200	12	69	25/28	**16.491.93***	**16.491.94***

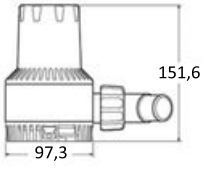
* *Hose connection to be ordered, 12-pcs-package.*

◢ 16.491.91/93

◢ 16.491.92/94

attwood

◢ 16.505.12/24



◢ 16.504.12

ATTWOOD Heavy-Duty bilge pump

CE certified in compliance with ISO 28846/28849.
The **unsurpassed durability** of this pump makes it also suitable for **commercial vessels**.

Features: parabolic chamber that cools the motor with ejected water;
high power permanent magnet motor, composite brushes, permanent lubrication bearings;
the pump can be easily removed from the base with just one hand;
thermo-plastic impeller improves durability and extends motor life;
two **independent shafts** between motor and impeller avoid water leaks into the motor.

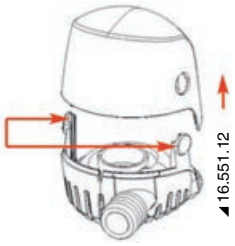
Code	Model	V	Flow l/min			Current draw A	Max head m	Fuse A	Inlet Ø mm
			m 0	m 1	m 2				
16.504.12	1700	12	96	71	51	5.7	3.6	10	28
16.505.12	2000	12	130	102	79	6.6	4.81	12	28
16.505.24	2000	24	130	102	79	3.5	4.81	7	28

► WHALE bilge pumps

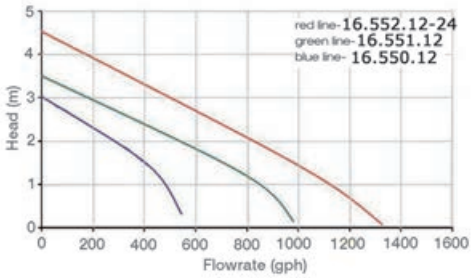
WHALE Orca bilge pump

High performance, simple installation, very compact design easily maintained, hydrocarbon-resistant ABS body, large built-in strainer on the case, great flow even with debris. CE certified in compliance with Directive ISO 8849. 3-year warranty.

Code	Model	V	Current draw A	Hose adaptor	Max head m	⟷ mm
16.550.12	500 GPH	12	1.5	3/4" (19 mm)	3	83x102x78.5
16.551.12	950 GPH	12	3.5	1 1/8" (25 and 28.5 mm)	3.5	109x135x103
16.552.12	1300 GPH	12	5	1 1/8" (25 and 28.5 mm)	4.5	129x168x121
16.552.24	1300 GPH	24	2.5	1 1/8" (25 and 28.5 mm)	4.5	129x168x121



◢ 16.551.12



WHALE Orca automatic bilge pump

Submersible pump with built-in electronic lever sensor.
Simple installation by means of two screws on the bottom, no external part to connect.
Hydrocarbon-resistant ABS body with snap opening. Compact size, large inlet surface area. In compliance with ISO8849.

Code	Model	V	Flow l/min	Current draw A	Max head m	Hose adaptor Ø mm	⟷ mm
16.553.12	Auto 1300 GPH	12	82	5	4.5	25 - 28	129x168x121
16.553.24	Auto 1300 GPH	24	82	2.5	4.5	25 - 28	129x168x121

WHALE Supersub submersible bilge pump

Vertical and horizontal mounting. Low narrow design for confined bilge spaces.
Low power consumption. Snap-fit assembling/disassembling of the pump and strainer for easy cleaning. It drains down to **as little as 10 mm.**

Code	V	Flow l/h at 0/1/2 m	Current draw A	Mounting	Hose adaptor mm
16.360.02	12	32/25/15	2.5	Horizontal/vertical	19

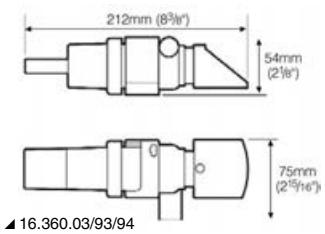
WHALE Supersub Smart submersible automatic bilge pump

Low profile **automatic** pump for confined bilge spaces.
Built-in field sensor switch, no maintenance required.
Excellent operation even in case of dirt, oil, fuel, etc.
Easy access to strainer.

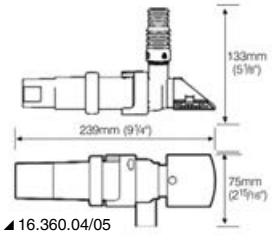
Code		Model	V	Flow l/min at 0/1 m	Current draw A	Hose adaptor mm
RETAIL (1pcs)	BULK (10pcs)					
16.360.93	**16.360.03**	650 GPH	12	40/34	3.4	19
16.360.94	**16.360.04**	1100 GPH	12	66/45	5	25-28
-	**16.360.05**	1100 GPH	24	66/45	2.2	25-28

◢ 16.360.03/93/94

◢ 16.360.93/94

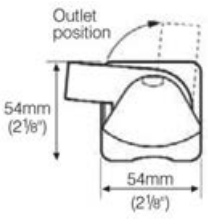


◢ 16.360.03/93/94



◢ 16.360.04/05

◢ 16.360.04/05



► RULE submersible pumps

RULE New Generation submersible bilge pump

This pump integrates the following devices:
1 - Streamlined impeller. High flow and low current draw.
2 - Built-in circuit breaker.
3 - Check valve (except 16.438.12/16.482.12) to avoid backflow from the drain hose.
4 - Vent integrated in the pump body to prevent air bubbles in the circuit and to work in pair with the check valve.
5 - Drain threaded hose adaptors for easy installation.

Code	Model	Rule Code	V	Flow l/min		Current draw A	Base Ø mm	Height mm	Hose adaptor mm
				Max	1.5-m head				
16.470.12	360	24DA	12	28	15	2.1	64	99	19 (3/4")
16.471.12	500	25DA	12	36	19	1.6	64	99	19 (3/4")
16.471.24	500	25DA-24	24	36	19	1	64	99	19 (3/4")
16.472.12	800	20DA	12	64	35	3.4	64	111	19 (3/4")
16.472.24	800	20DA-24	24	64	35	1.7	64	111	19 (3/4")
16.482.12	800 auto	20SA	12	64	35	3.4	64	111	19 (3/4")
16.473.12	1100	27DA	12	74	40	3.7	64	111	25/29 (1" - 1" 1/8)
16.473.24	1100	27DA-24	24	74	40	1.9	64	111	25/29 (1" - 1" 1/8)
16.483.12	1100 auto	27SA	12	74	40	3.7	64	111	29 (1" 1/8)

RULE 1500 and 2000 submersible pump

Standard model.

Code	Model	V	Flow l/min	Current draw A	Height mm	Base Ø mm	Inlet Ø mm	kg
16.114.60	1500 (02)	12	100	4.8	150	110	29	1
16.114.61	1500 (03)	24	100	2.3	150	110	29	1
16.115.60	2000 (10)	12	135	8.4	150	110	29	1.2
16.115.61	2000 (12)	24	135	4	150	110	29	1.2

RULE 3700 and 4000 extra-large submersible pump

Long lasting motor with permanent lubrication bearings and water cooling system.
Dual insulation that drastically reduces the chance of electrolysis on the shaft.
Acetal body and plug-in base.

Code	Model	V	Flow l/min	Current draw A	Head m	Inlet Ø mm	Height mm	Base mm
16.118.12	3700 (14 A)	12	237	15.5	6.3	38	184	120
16.118.24	3700 (16 A)	24	237	6.9	6.3	38	184	120
16.119.12	4000 (56 D)	12	256	15.5	6.3	50	197	120
16.119.24	4000 (56 D)	24	256	6.9	6.3	50	197	120

RULE Mate automatic bilge pump

Eco-friendly antistatic pump with electronic sensor.
The pump turns on when the water level reaches 7 cm and shuts off when water is totally drained.
FIELD-effect sensor avoids the pump turning on in presence of oil to protect the environment.

Code	Rule Code	V	Flow l/min	Current draw A	Inlet Ø mm	Height mm	Width mm
16.020.15	RM1500A	12	97	7	25/28	150	150
16.020.20	RM2000A	12	129	12	25/28	150	150
16.020.21	RM2000A-24	24	129	6.5	25/28	150	150

RULE Mate automatic bilge pump

Eco-friendly antistatic pump with electronic sensor.
The pump turns on when the water level reaches 5 cm and shuts off when water is totally drained.
FIELD-effect sensor avoids the pump turning on in presence of oil to protect the environment.

Code	RULE code	V	Flow l/min	Current draw A	Inlet Ø mm	Height A mm	Width B mm
16.020.51	RM500B	12	35	1.8	19	111	72
16.020.76	RM800B	12	55	3.0	19	111	72
16.020.77	RM800B-24	24	55	1.6	19	111	72
16.020.12	RM1100B	12	72	3.8	25/29	111	72
16.020.13	RM1100B-24	24	72	2.1	25/29	111	72

New **RULE bulkhead mounting bracket for pumps**

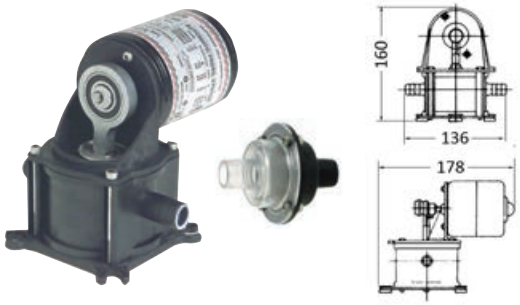
Code	For pumps
16.448.03	**16.020.51; 16.020.76; 16.020.13**

► Bilge and grey water pumps

GEISER diaphragm self-priming bilge pump

For water suction and fuel transfer.
Stainless steel plates, impact-resistant **plastic and nylon** parts, rubber-coated fabric parts resistant to any substances.
Watertight in compliance with ISO 8846 standards (it can be mounted in th engine room). Supplied with strainer.

Code	Inlet/outlet mm	V	A	Flow l/min	Head m	Spare diaphragm
16.292.12	3/4" (mm 19)	12	8	18	10	**16.292.00**
16.292.24	3/4" (mm 19)	24	4	18	10	**16.292.00**



Self-Priming bilge pump

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Self-priming pump with neoprene impellers. Watertight in compliance with ISO 8846 standards (it can be mounted in the engine room).
- Version A: Electrophoresis-coated engine case.
- Version B: **Model MKII** fitted with pump unit made of fiberglass-reinforced thermosetting resin + stainless steel internal inserts.

Code	Version	V	Flow l/min	Current draw A	Fittings	Spare impeller
16.193.12	A	12	35	8	1/2" 19 mm	**16.193.73**
16.193.24	A	24	35	4	1/2" 19 mm	**16.193.73**
16.192.12	A	12	45	12	1/2" 19 mm	**16.193.73**
16.192.24	A	24	45	7	1/2" 19 mm	**16.193.73**
16.193.50	B	12	30	8	1/2" 19 mm	**16.193.73**

◢ A

◢ 16.193.50

◢ 16.193.73

MARCO self-priming bilge pump

NEW INTEGRATED FLANGE

Rubber impeller, high-quality built, EMI internal noise suppressor.
Waterproof body and watertight fairlead.
In compliance with ISO 8849/8846 standards.

Code	Initials	V	Flow l/min	A	Max pressure bar	Self-priming from m	Motor W	Hose adaptor	Spare impeller
16.164.12	UP1-J	12	28	8	1	1.5	150	3/8"	-
16.165.12	UP1	12	35	11	1.2	1.5	180	1/2"	**16.193.73**
16.165.24	UP1	24	35	5.5	1.2	1.5	180	1/2"	**16.193.73**
16.166.12	UP1	12	45	14	1.2	1.5	360	1/2"	**16.193.73**
16.166.24	UP1	24	45	7	1.2	1.5	360	1/2"	**16.193.73**

◢ 16.164.12

◢ 16.165.12/24; 16.166.12/24

WHALE Gulper 220 shower/black water drain pump

Whale®

Designed to pump waste water, fitted with large single diaphragm, non-choke valves, quiet operation, no strainer required. Self-priming up to 3 metres. It can run dry and pump a mixture of air and water. Easy to install in confined spaces, dual outlet valve for an even flow.
360° adjustable inlets, low current draw.

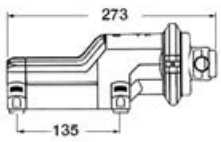
Code		V	Flow l/min at 1m head		Max flow l/min	Current draw A	Max head m	Max suction m	Hose adaptor mm
RETAIL	BULK		inlet m 0	inlet m 1					
16.155.30	**16.155.20**	12	13.4	12.6	14	2,4/4,5	3	3	19
-	**16.155.40**	24	13.4	12.6	14	1,2/2,2	3	3	19

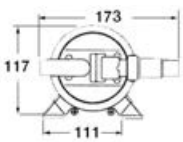
16.155.99 *Whale Gulper maintenance kit.*
16.155.98 *Gulper 220 closing ring and screws.*

◢ 16.155.30

◢ 16.155.99

◢ 16.155.98





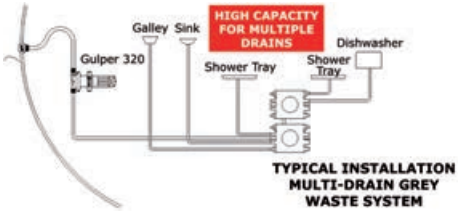
WHALE Gulper 320 shower/black water drain pump

Built on market leading valve technology, it is as reliable as the Gulper 220 but with a 35% higher flow.
Improved features in comparison with the 220 model:
1)Patented Ezi-Clamp locking ring: head rotates 360° without loosing screws.
2) 3-foot design for quick and easy installation.
3)Anti-vibration rubber support belt.
4) Hose adaptor for 19-mm and 25-mm Ø tube.

Code		V	Flow l/min at 1m head		Current draw A	Hose adaptor mm	Head maintenance kit
RETAIL	BULK		suction 0m	suction 1m			
16.156.15	**16.156.12**	12	19	17.4	7.5	19/25	**16.156.99**
-	**16.156.24**	24	19	17.4	3.2	19/25	**16.156.99**

16.156.15

16.156.99



WHALE Gulper IC grey water and remote bilge pump

Same system of the Gulper 220/320, non-clog pump, elevated head, adjustable head, no strainer, self-priming, it can run dry. The IC version is pre-wired and fitted with watertight connectors to IC range accessories (suction strainer, 3-way fitting, shower drain): when the electronic sensor detects water, the pump activates for a 45-second cycle. Manual activation possible.
In compliance with ISO 15083 standards.

Code	V	Flow l/min	Current draw A	Head	Hose adaptor	Head maintenance kit
16.157.12	12	19	8	3 m	19-25 mm	**16.156.99**
16.157.24	24	19	4	3 m	19-25 mm	**16.156.99**

WHALE suction strainer with IC automatic sensor

An accessory including three items: suction strainer, check valve and electronic switch.
Easy to connect to the GULPER IC bilge pump by means of watertight plugs, it is fitted with a 4-m cable and can work with both 12V and 24V systems. No maintenance required, fast installation.
Port orientation.

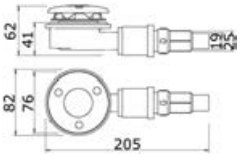
Code	It can be connected to pump
17.710.50	**16.157.12; 16.157.24**

WHALE 3-way fitting with IC automatic sensor

This fitting can be used to connect two drains to the same pump without using a grey water tank.
Built-in field sensor switch that activates the pump as water flows into the drains.
It connects to the Gulper IC pump by means of a 4-m cable with watertight quick plug. 25-mm fittings, bulkhead mounting or undermount installation.
No wearing parts, no cleaning required.

Code	It can be connected to pump
17.713.50	**16.157.12; 16.157.24**

WHALE drain plug with IC automatic sensor



Drain plug with built-in field sensor switch. It connects to the Gulper IC pump by means of a 4-m cable with watertight quick plug. It activates the pump as soon as water flows into the drain.
This system allows to drain off grey waters with no need of activating a control before using the shower or sink. Small size, sturdy materials, no maintenance or cleaning required.
Check-valve included. Fittings for 19- and 25-mm hose.

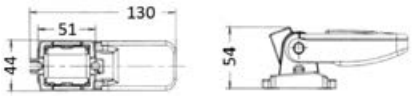
Code	It can be connect to pump
17.713.60	**16.157.12; 16.157.24**

► Bilge pump switches

Automatic switch for bilge pumps

20-amp flow. Technopolymer body. Removable for cleaning.

Code	V	Max current draw A		Activation level mm	Deactivation level mm
		12V	24V		
16.603.50	12/24	20	10	51	19



Eco-friendly automatic switch for any bilge pump

Extra-flat version. **CE** certified in compliance with Law 94/25, ISO 28846 standards.

Code	Voltage	Max A
16.603.00	universal	14

Openable cover for bilge pump automatic switches

It protects against accidental impacts and avoids it from getting jammed due to debris floating in the bilge.

Code	⟷ mm	For switches
16.603.10	180x110x110 h	**16.603.00**

Cased eco-friendly automatic switch for any bilge pump

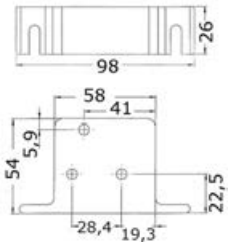
Cased version of model 16.603.00. It protects against accidental impacts, larger size.

Code	Voltage	Max A	⟷ mm
16.607.00	universal	15	152x85x84h

Automatic electronic switch for bilge pumps

For any submersible pump operating at 20A max current draw and12/24V.
It works in fresh and salt water. It switches on at a 50-mm level and turns off at a 20-mm level.
A 5-second return system prevents false starts. Oil- and hydrocarbon-resistant.
RINA ISO 8846 type-approved.

Code	ON/OFF level mm	V	Max A	⟷ mm
16.610.00	50/20	12/24	20	86x54x26h



Automatic electronic switch for bilge pumps

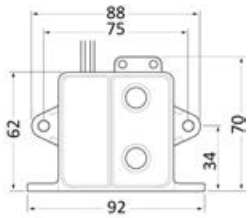
Fast installation in any point of the bilge.
Petrol-, oil- and diesel-resistant.

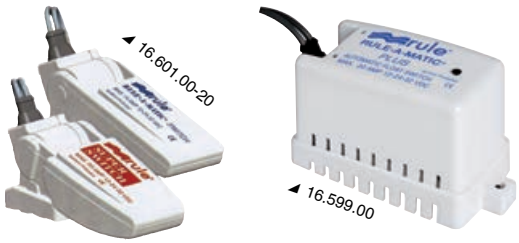
Code	Version	V	Max A	⟷ mm
16.609.00	automatic	12/24	20	82x80x19h

WHALE automatic electronic switch for bilge pumps

- It uses the MIRUS patented field sensor technology that controls 12 or 24 volt DC bilge pumps up to 20 A current draw.
- No moving internal parts, no wear and no malfunctioning.
- Completely sealed, maintenance required.
- Solvent- and fuel-resistant polymer body.
- Mercury- and polluting-agent free.

Code	ON/OFF level	Max V	Max A
16.548.90	32 mm	24	20

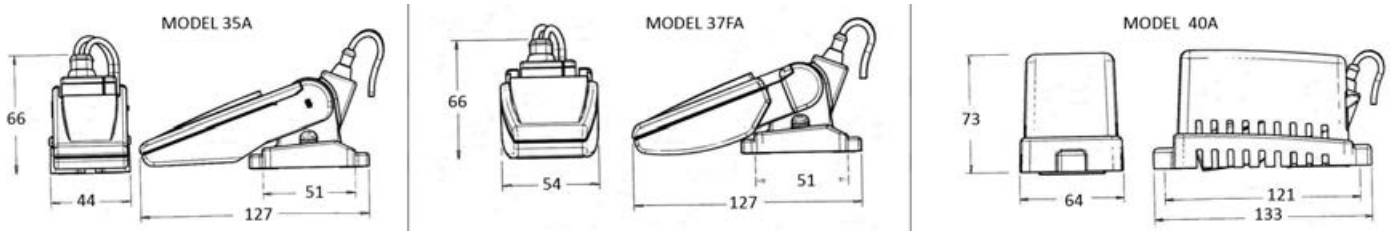




RULE automatic switch for bilge pumps

Mercury-free eco-friendly version. Removable base for easy servicing (MOD 35A/37A).
Tested to over 1,000,000 cycles.

Code	Version	Max A power	⟷ mm	Fitted with
16.601.00	35A	14	127x44x66 (h)	-
16.601.20	37FA	20	127x54x66 (h)	safety fuse
16.599.00	40A	20	133x64x73 (h)	-



RULE eco-friendly automatic switch for bilge pumps

Mercury-free eco-friendly design, all wiring is out of water.
As water rises in the bilge, air rises in the air tube that is attached to the switch.
This air pressure activates the switch that controls the pump.

Code	V	Current draw A
16.598.12	12	20
16.598.24	24	10

► Bilge pump panels and alarm systems

Manual panel switch for electric bilge pumps

Made of **anodized aluminium**. It includes fuses and switch for manual/automatic mode.

Code	V	⟷ mm
16.604.00	12/24	90x50

Panel switch for electric bilge pumps

Made of **anodized aluminium**, fitted with:
- Switch and pump ignition light.
- Warning light and audible alarm that activate when there is water in the bilge.
- Safety fuse.

Code	V	⟷ mm
16.605.00	12	120x65

Panel switch for bilge pumps

Universal for any pump with floating or electronic switch.
Fitted with: Marina **dual LED** toggle switch, 3 positions (automatic, off, manual with spring return to off to prevent leaving the pump on), safety fuse.

Code	For pumps	Current draw A	⟷ mm
16.606.12	12 volt	25	75x60
16.606.24	24 volt	15	75x60

Panel switch for washdown pump

For all 12V washdown pumps. Fit ted with Marina toggle switch (LED on and off) and safety fuse.

Code	For pumps	Current draw A	⟷ mm
16.610.12	12 V	25	75x60

Panel switch with audible alarm for bilge pumps

IP43. Model with rear cover. Fitted with:
- ON-OFF-M.ON switch to activate the pump in automatic or manual mode, it includes control LED lights.
- **Warning light and audible alarm** that activates when there is water in the bilge.
- Fuse.

Code	volt	⟷ mm
16.608.12	12/24	120x68.5

RULE panel switch for bilge pumps

Three controls: automatic, manual, off.

Code	V
16.600.00	12/24

RULE panel switch for De Luxe bilge pumps

Built-in fuse, internally lighted rocker switch with 3 positions (automatic, manual and off) with Fall Safe spring return to off from the manual position.

Code	volt
16.600.12	12
16.600.24	24

RULE high water bilge alarm

Rule-A-Matic Plus recess fit fuse holder.
85-db audible alarm and water detection warning light.

Code	volt
16.033.00	12
16.032.00	24

► Grey water tanks

Grey water tank with Europump Auto pump

It centralizes all drains (shower, sink, kitchen, toilet, etc.). Quick inspection snap cover.
Fitted with removable strainer.

Code	Pumps	V	Current draw A	Max flow l/min	Max head m	Outlet mm	Inlet mm
16.130.12	**16.124.03**	12	3.0	48	3	19	19/25/29/38
16.130.24	**16.124.04**	24	1.6	48	3	19	19/25/29/38

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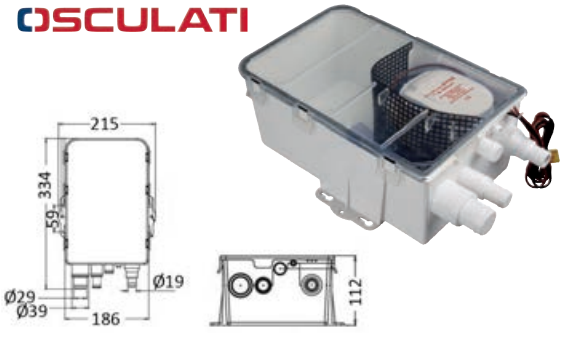
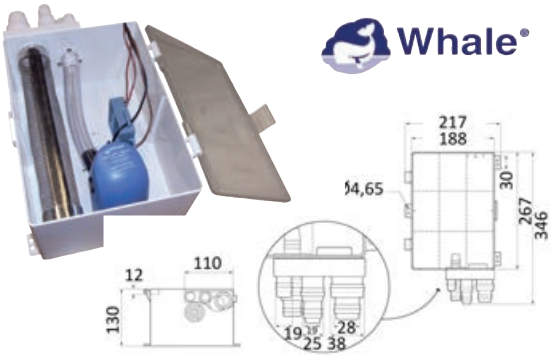


WHALE grey water tank with automatic pump

Designed to collect waste water from shower trays and sinks, then it automatically triggers the electronic field sensor to activate the pump.
Clear plastic lid for easy inspection, it opens without tools. Large stainless steel mesh strainer.
Easy installation: multiple inlet port sizes for easy connection to existing plumbing (only 2 wires to connect).

Code	Pumps	Sensor	V	Current draw A	Max flow l/min	Flow at 1 m l/min	Max head m	Ø inlets mm	Ø drains mm	⟷ mm
16.117.50	Orca 500 (16.550.12)	Sensor Field	12	1.5	32	16	3	19-25-28-38	19 - 25	346 x 217 x 130

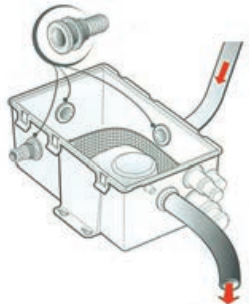


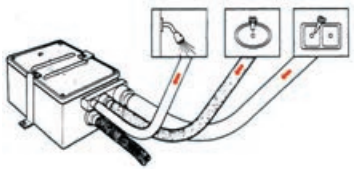
ATTWOOD grey water tank with automatic pump

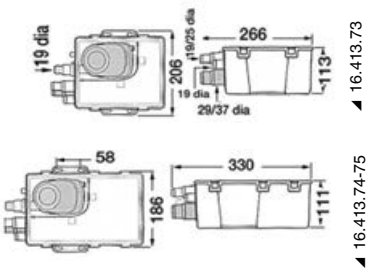
attwood

Designed to **centralize** all drains (showers, sinks, kitchens, bathrooms, etc). Fitted with **check valve** to prevent bad odours. Quick inspection snap cover.

Code	Pumps	V	Current draw A	Max flow l/min	Max head m	Box capacity	Inlet mm	Outlet mm	⟷ Box mm
16.413.73	automatic Sahara 500	12	1.4	27	2.1	standard	19	19+19/25+29/37	266x206x113h
16.413.74	automatic Sahara 750	12	2.5	41	3	large	19	19+19/25+29/37	330x186x111h
16.413.75	automatic Sahara 750	24	1.3	41	3	large	19	19+19/25+29/37	330x186x111h







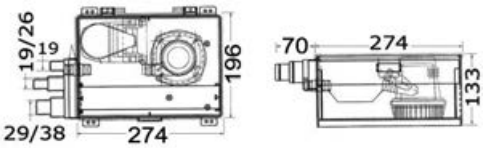
RULE shower drain system

Fitted with grey water tray/strainer.
It **automatically** turns on when the tray is full of water.

Code	RULE code	V	Current draw A	Flow l/min	No of inlets	Inlet fittings included	Drain mm
16.117.64	98B	12	3.5	55	3	2 x 19 mm; 1 x 25 mm; 1 x 29 mm	19
16.117.65	98B - 24	24	1.8	55	3	2 x 19 mm; 1 x 25 mm; 1 x 29 mm	19

Grey water tank

16.407.57 It centralizes all drains (shower, sinks, kitchens, toilets etc.) to avoid bores in the hull. **Universal** model supplied **without pump** and **automatic floar**. It can be fitted with pumps: Rule/ Jabsco/360/800/1000 GPH, Attwood V625/V750/V900, Europump 16.813.60, TMC 600GPH/ 500GPH/1000GPH, Seaworld 750GPH and floats Rule 35/35F, Attwood 4202, Seawoorld 40812.



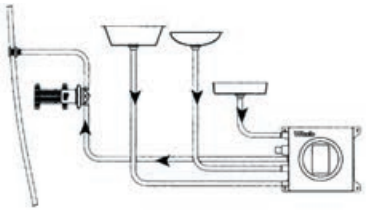
Whale

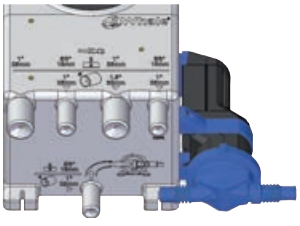
IC Intelligent Control™

WHALE grey water tank with built-in IC sensor

The tank has built-in sensors for the pump automatic control and allows you to manage all grey waste on board up to 90°C even in multi-port systems.
The triple spray-proof seal cover, made of polyethylene with clear inspection lid, has built-in controls kept far from water. No mobile part that easily jams.
The tank has a convex base for utmost draining and a pre-moulded hose adapter for precision when boring.
The "Gulper" pump can be mounted directly on the tank.
Outlet ports and sensor locations minimise air pumping noise typical of the other tanks available on the market.
The 20-l model offers a +25% capacity and is fitted with a dual sensor for installation of an additional pump that activates in case of large inlets or for mounting of a high-lever alarm system.

Code	V	Flow l	⟷ mm	Fittings		For pumps
				inlets	outlets	
16.222.94	12/24	8.1	350x260x180	19 mm x 2; 25 mm x 3; 38 mm x 3	19 mm x 1; 25 mm x 1	**16.155.40 16.156.24**
16.222.98	12/24	20	600x250x230	25 mm x 4; 38 mm x 4	2 x 25 mm	**16.156.12; 16.156.24**





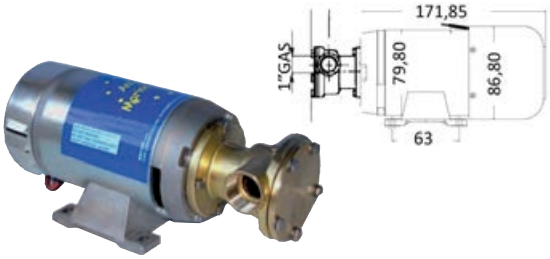
► Portable and high-capacity bilge pumps

attwood

ATTWOOD portable submersible bilge pump

Battery-operated pump fitted with 1.10-m delivery pipe coiler.

Code	Power	Capacity	Flow l/min	⟷ mm
16.026.00	3 x D batteries	5 hours	25	130 (Ø base) x 190h



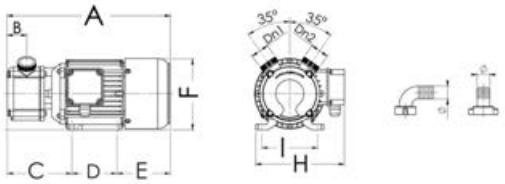
Self-Priming professional bilge pump

Self-priming electric pump with nitrile rubber impellers. Brass pump body.
Also suitable for diesel oil transfer.

Code	V	Flow l/min	Current draw A	Fittings	Spare impeller
16.193.80	24	80	21	3/4"	**16.194.35**

Professional bronze self-priming bilge pump

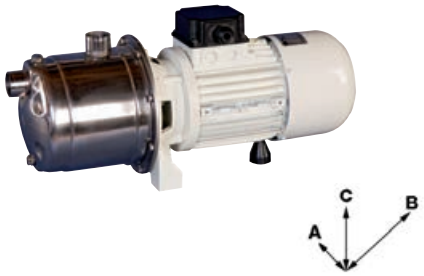
Bronze impeller. It can run dry without damage. Self-priming up to 5/6-meter depth. Suitable for diesel oil transfer.



Code	A mm	B mm	C mm	D mm	E mm	F mm	H mm	I mm	Dn1 - Dn2	V	Flow l/min	Current draw A	Head m	HP	Hose adaptor Ø mm	kg
16.652.20	295	35	115	80	100	123	165	100	3/4" M	12	28	26	10	0.45	20	5.7
16.652.30	375	50	140	100	135	156	205	125	1" 1/4 M	24	75	24	18	0.8	30	13.5
16.652.40	490	67	180	125	185	178	218	140	1" 1/2 M	24	120	45	22	1.5	40	21

Self-priming electric pump

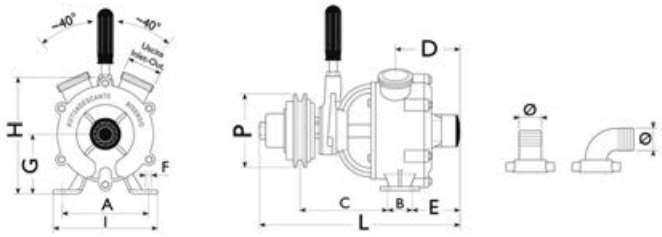
Stainless steel pump body and shaft, fitted with **norlin** impeller and diffuser, coated cast iron motor case and support. Self-priming after first filling, it requires a check valve.
High priming capacity. Commonly used to deliver water under pressure to the onboard services (showers, kitchen, sinks, etc.) as well as to air conditioning, fire-prevention, washdown and chains units.
For use with fresh water.



Code	V	Max flow l/min	Current draw A	Motor W	AxBxC mm	kg	OPTIONAL valve
16.655.12	12	50	42	520	200x400x220	10	**17.232.03; 17.232.04**
16.655.24	24	50	28	600	200x400x220	10	**17.232.03; 17.232.04**

Bronze self-priming impeller pump with mechanically-activated clutch

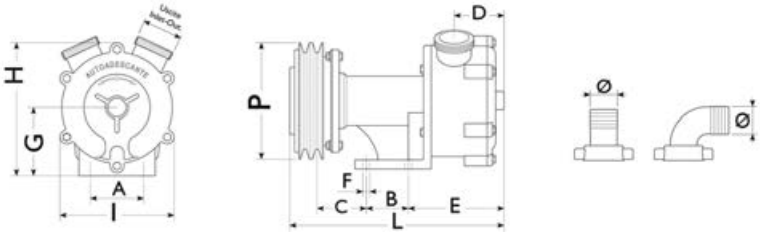
It can run dry without damage. Fitted with mechanically-activated clutch drive mechanism to engage/disengage pump as needed. Self-priming up to 5/6-m depth.



Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	Pulley Ø P	Outlets	Fittings mm	Head m @ 1400 RPM	Flow l/min @ 1400 RPM
16.650.30	130	28	124	85	70	Ø 9	90	175	157	280	110x1A	1" 1/4M	Ø 30	18	75
16.650.40	130	37	130	105	76	Ø 9	90	175	157	305	110x1A	1" 1/2M	Ø 40	22	120
16.650.50	160	40	160	125	91	Ø 11	120	225	188	365	110x2A	2" M	Ø 50	30	230

Bronze self-priming impeller pump with electromagnetic clutch

It can run dry without damage. Fitted with 24V electromagnetic clutch drive mechanism to engage/disengage pump as needed. Self-priming up to 5/6-m depth.



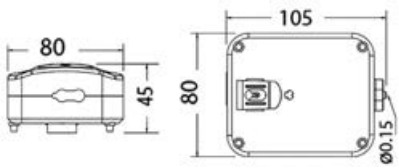
Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	Pulley Ø P	Outlets	Fittings mm	Head m @ 1400 PRM	Flow l/min @ 1400 RPM
16.651.30	70	55	68	50	103	Ø8.5	89	175	150	265	152x2A	1" 1/4M	Ø 30	18	75
16.651.40	70	55	68	67	128	Ø8.5	89	175	150	288	152x2A	1" 1/2M	Ø 40	22	120
16.651.50	70	55	94	90	160	Ø9	107	210	185	345	152x2A	2" M	Ø 50	30	230

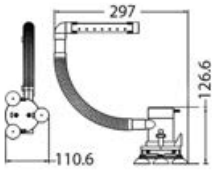
► Aerator pumps for livewell

Automatic aerator pump for livewell

Independently powered pump with internal lithium battery rechargeable via USB cable included.
Continuous or **intermittent** operation.
Fitted with full-charge battery and operating pump warning lights.

Code	Air flow l/min	Operating time with full charge
16.162.00	2	24 h





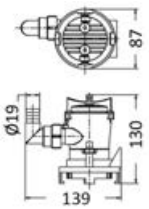
Aerator pump for baitwell/livewell tanks

It can be fixed to the tank by means of a suction cup.
Fitted with aerator hose to be fixed with suction cups to the tank sides. Packed in blisters.

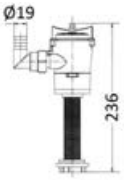
Code	V	Current draw A	Flow l/min	Head m
16.163.00	12	1	22	3

16.160.01

16.160.03



16.160.01



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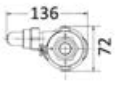
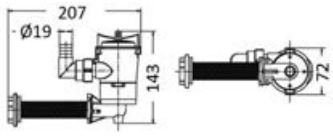


Europump centrifugal pump for livewell tank aeration

ABS body, stainless steel shaft, permanent magnet motor. Easy to disassemble and clean.

Code	Version	V	Flow l/min	Current draw A	Drain Ø mm
16.160.01	submersible	12	38	3.0	19
16.160.03	in-line bulkhead	12	38	3.0	19
16.160.05	90° bulkhead	12	38	3.0	19

16.160.05

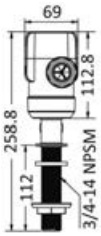


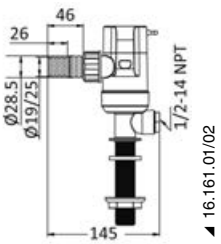
16.160.05

16.161.05/06

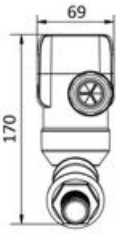
16.161.03/04

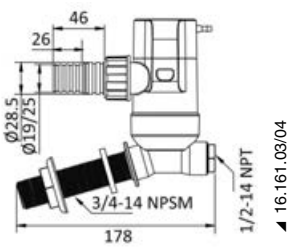
16.161.01/02



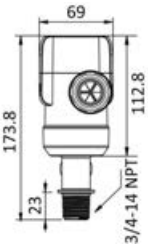


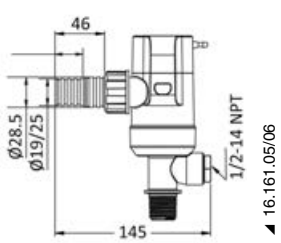
16.161.01/02





16.161.03/04





16.161.05/06

New Europump Next Generation aerator pump for livewell/baitwell tanks

CE-certified in compliance with the **ISO 8846/8849** directive. Low consumption. Pump unit + hose connector adjustable at 360°. Motor can be pulled off for cleaning. Fitted with backflow **check valve**.

Code	Version	V	Flow l/min	Current draw A	Head m	Hose adaptor Ø mm	OPTIONAL 29-mm Ø 90° hose adaptor
16.161.01	in-line	12	51	3.5	3	19/29	**16.128.00**
16.161.02	in-line	24	51	2.0	3	19/29	**16.128.00**
16.161.03	vertical motor	12	51	3.5	3	19/29	**16.128.00**
16.161.04	vertical motor	24	51	2.0	3	19/29	**16.128.00**
16.161.05	inside mounting	12	51	3.5	3	19/29	**16.128.00**
16.161.06	inside mounting	24	51	2.0	3	19/29	**16.128.00**

TMC aerator pump for livewell/baitwell tanks

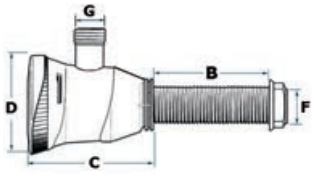
Designed for mounting inside the tank by means of 3 suction pads. It connects at 12 volts.

Code	V	Flow l/min
16.452.43	12	15.8

ATTWOOD electric pump for aeration and water circulation

To be used in livewell/baitwell tanks. Designed to be mounted on the transom or at a distance with a pipe.

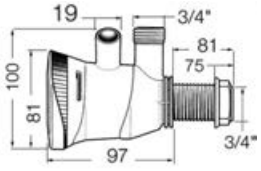
Code	V	Max flow l/min	Current draw A	B mm	C mm	D mm	G/F mm	OPTIONAL thru-hull scoop strainer	OPTIONAL Strainer	OPTIONAL Spray head	OPTIONAL Hose adaptor
16.410.84	12	38	1.8	75/25	81	74	3/4"	**16.388.61**	**16.388.50**	**16.412.53**	**17.235.02**
16.410.83	12	52	2,5	75/25	100	81	3/4"	**16.388.61**	**16.388.50**	**16.412.53**	**17.235.02**



2-outlet ATTWOOD electric pump for aeration and water circulation

To be used in livewell/baitwell tanks.
Fitted with **two outlets** to aerate 2 tanks at a time or a single tank by using a second washdown fitting.

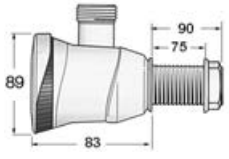
Code	V	Flow l/min		Current draw A	Hose adaptor	Spray head
		m 0	m 2			
16.410.85	12	46	29	3	3/4 + 19 mm	**16.412.53**

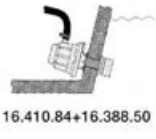


ATTWOOD thru-hull scoop strainer

16.388.61 Thru-hull scoop strainer to be used with pump model 16.410.83/ 16.410.84 when mounted far from the transom.

ATTWOOD strainer





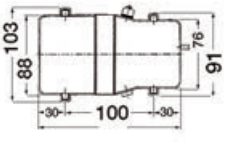
16.388.50 Strainer only to be fitted outside pump model 16.410.84 when mounted ont the transom.

ATTWOOD spray head

Spray head for ATWOOD aerator pumps. Flow can be adjusted as wished.

Code	For hose Ø mm	For pumps
16.412.53	19	16.452.43; 16.410.84; 16.410.85

TMC electric aerator pump for livewell tanks



16.201.00 Bulkhead mounting, powered by 2 x D batteries, 100% watertight.

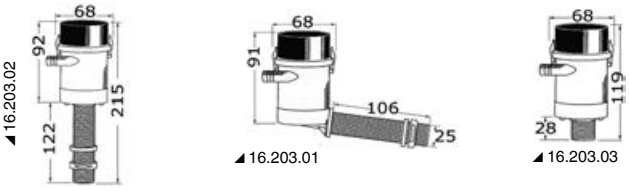
RULE oxigenator for livewell/baitwell tanks

16.078.00 It can be combined with any submersible pump with 19-mm hose adaptor.
The spray valve infuses air in stagnant water. **Adjustable** direction and flow.

RULE Pro-Series submersible aerator pump for livewell tanks

Easy to disassemble and clean. Very quiet operation.

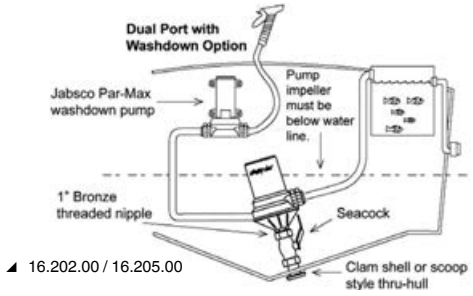
Code	V	Flow l/min	Current draw A	Version
16.203.01	12	45	2,8/4	angled inlet for thru-hull applications
16.203.02	12	45	2,8/4	straight inlet for thru-hull applications
16.203.03	12	45	2,8/4	seacock inlet for seacock applications



RULE Dual-Port centrifugal pump

Used as water circulation pump in livewell/baitwell tanks and as fitting for **washdown pumps**, usually installed on fishing boats. A single bore is required on the hull.

Code	V	Flow l/min	Current draw A	Hose adaptor
16.202.00	12	32	1.9	1/2"+3/4"
16.205.00	12	100	-	25 (1")/28,6 (1" 1/8)



Centrifugal aerator pump

Suitable for **livewell tanks**. Used for water circulation, exchange and aeration.
Fitted with mounting accessories, stand, clamps, aerator hose, etc.

Code	V
16.100.13	12

► Oil and diesel oil transfer pumps

Oil vacuum extractor

This device pumps the exhausted oil out of the engine. Oil is tapped through the dipstick and the vacuum pump located on top collects it into the spherical container.

Code	Flow l
16.188.00	6

12V oil change kit

The kit contains: 13.5-l plastic tank, electric pump,fitted with 2.10-m cable and battery clips, suction hose from the dipstick, drain hose

Code	V
16.188.90	12

Reversible self-priming pump for oil emptying and diesel oil transfer

OSCULATI

Oil is tapped through the dipstick. Fitted with 14-mm hose adaptor.

Code	V	Flow l/min	Current draw A	Self-priming up to m	Hose kit
16.170.12	12	8	4/8	0.80	**16.170.20** OPTIONAL
16.171.12	12	12	6/10	1.30	**16.170.20** INCLUDED
16.171.24	24	12	3/6	1.30	**16.170.20** INCLUDED

16.170.20 *8-mm and 6-mm Ø rigid rilsan pipe for tapping through the dipstick.*

Self-priming pump with switch for transfer of gasoil, oil and water

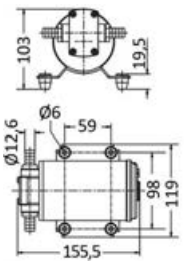
With watertight continuous running motor for the transfer and supply of gasoil, oil and water.
Fitted with Carling ON/OFF/ON built-in watertight switch.
It comes with: 13-mm drain hose, 2 x rilsan hoses (6 mm and 8 mm) for the engine housing, 1.5-m cable with clamps for the battery pack.

Code	V	Flow l/min	Current draw A	Self-priming up to m
16.172.12	12	with hose Ø 8=4; with hose Ø 6=3	5	1.2

Self-priming pump for oil, diesel oil and viscous fluids.

Brass pump body, stainless steel shaft, intermittent working.

Code	V	Flow l/min	Current draw A	Max head m
16.190.60	12	12	7	3
16.190.61	24	12	4	3



Fixed/portable pump for diesel oil transfer

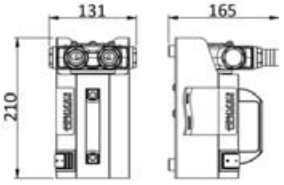
Professional pump for diesel oil transfer. Built-in ON-OFF switch.
Fitted with strainer and 25-mm hose adaptor. CE certified No VT12039113.

Code	V	Flow l/min	Power W	Max intake m	Head m	Dimensions mm
16.045.50	12	40	155	3	10	230x160x180
16.045.51	24	40	155	3	10	230x160x180

MARCO self-priming electric pump for diesel oil transfer

Blade impeller. Aluminium body with quick fitting for 25-mm hose. Case with handle, ON/OFF switch, battery clips. Fitted with EMI strainer. Pump suitable for transfer from a tank to another.

Code	Initials	V	Flow l/min	Current draw A	Pressure bar	Priming height m	Hose adaptor mm
16.047.05	VP45	12	45	15	1.2	1.5	25
16.047.06	VP45	24	45	7.5	1.2	1.5	25



MARCO FLUID TECH

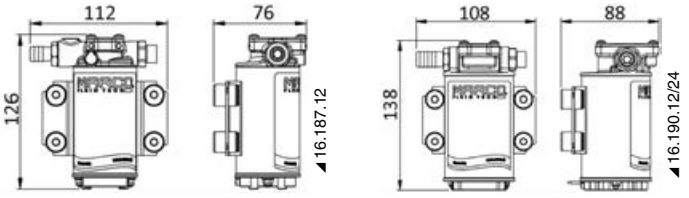
MARCO self-priming electric gear pump for oil transfer/change

NEW INTEGRATED FLANGE

Bronze electric gear pump for transferring oils and viscous fluids. Tapping through the dipstick; fitted with 2 hose adaptors for 14-mm inner diameter hose and additional quick plug-in fitting for the suction pipe. Suitable for draining oil from engine sumps by means of its hose kit. Nickel-plated brass body, stainless steel shaft.

Code	Initials	V	Flow l/h in pipe mm			Fuse A	Self-priming up to m	OPTIONAL Hose kit
			Ø 6	Ø 8	Ø 14			
16.187.12	UP2/OIL	12	0.3	0.9	330	3	1	**16.190.27**
16.190.12	UP3/OIL	12	20	60	330	7.5	1	**16.190.27**
16.190.24	UP3/OIL	24	20	60	330	4	1	**16.190.27**
16.190.32	UP6/OIL	12	25	75	480	10	1.5	**16.190.27**
16.190.44	UP6/OIL	24	25	75	480	5	1.5	**16.190.27**

16.190.27 *8-mm and 6-mm Ø* ***rigid rilsan*** *pipe for tapping through the dipstick.*

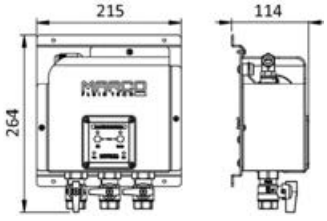


MARCO FLUID TECH

MARCO electronic unit for oil change

Compact electronic unit for oil change for fixed installation on vessels.
Used to drain and fill up all onboard applications such as generators, engines, gear drive and gangplanks.
Electronic control adjusts the pump motor speed depending on the oil viscosity/temperature and increases revolutions during priming for maximum suction.
The system automatically stops working when it runs out of liquid, in case of short circuit and after 30-min operation.

Art. Nr.	Initials	V	Max flow l/min	Current draw A	Pressure bar	Self-priming up to m
16.190.53	OCS3/E	12/24	10 (Diesel)	10	2	1.5

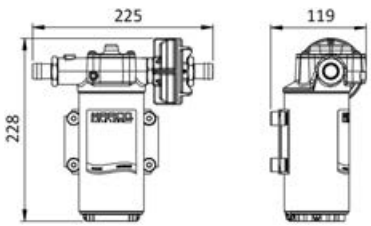


MARCO FLUID TECH

MARCO oil transfer electric pump with bronze gears

Self-priming electric pump with bronze gears for oil transfer. Protection strainer included.

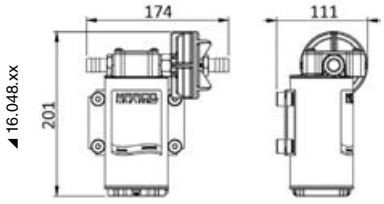
Code	Initials	V	Flow l/min	Current draw A	Head m	Pressure bar	Outlets
16.190.52	UP14	12	46	30	4	2	3/4"

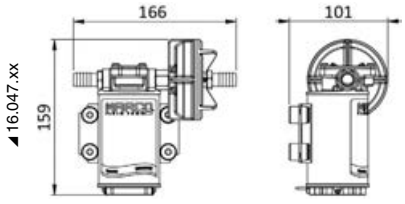


Self-priming bronze electric gear pump for diesel oil, antifreeze and water transfer

Fitted with in-line inlet strainer. Brass body, stainless steel shaft. Inlets with brass fittings for 14-mm inner Ø hose. It can run dry without damage.

Code	Initials	V	Flow l/min	Current draw A	Head m	Self-priming from m	Inlets
16.047.12	UP3	12	15	6	10	1.5	3/8"
16.048.12	UP6	12	26	10	10	2	1/2"
16.048.24	UP6	24	26	5	10	1.5	1/2"





Pipe kit

16.190.27 8-mm and 6-mm rigid rilsan pipe kit for tapping through the dipstick.
For pump models 16.190.xx.

MARCO oil change kit with bronze gears

The kit includes:
a) Filling/draining pump with ON-OFF reversible switch.
b) Intake tubes.
c) Battery clips.

Code	Initials	V	Flow l/h			Current draw A	Self-priming up to m	Hose adaptor
			6-mm Ø hose	8-mm Ø hose	13-mm Ø hose			
16.190.14	OCK1-R	12	20	60	330	5.5/6.5	1	3/8"
16.190.17	OCK1-R	24	20	60	330	5.5/6.5	1	3/8"

MARCO adjustable-flow reversible electric pump

Self-priming reversible electric pump, bronze gears for oil and diesel transfer, 12 and 24V.
The electronic control adjust speed to the liquid viscosity.
Automatic lock system when the pump has run out of liquid.
The built-in keypad can set the motor speed, can stop/start the pump and reverse its flow.

Code	Initials	V	Max flow l/min	Current draw A	Priming height	Max pressure bar	Hose connector
16.190.72	UP8-RE	12/24	10	4/2	1.5	4	13 mm; 3/8" BSPP

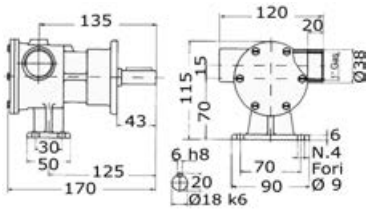
Electric pump for oil change

Engine oil suction pump. Fitted with 2 x 80-cm hoses for intake and drain. Two power outlet clips

Code	V	Flow l/min
16.169.12	12	0.70

► NAUCO-type self-priming pumps

Codice	Joint	Jabsco	Johnson	Giranti di ricambio
16.035.00	3/8"	52010-2001	F35B-8-10-35038-1/9 without bed; F35B-8-10-35038-41	16.194.01
16.035.01	3/8"	52010-2001 (6640-200) (22940-2001)	F35B-8-10-35038-1/9 without bed; F35B-8-10-35038-41	16.194.01
16.044.00	D18/19	29350-1001	F4B-9-10-24335-01	16.194.01
16.038.00	3/8"	29300-2001/29300-2101	F35B-9-10-32412-10-35157/6 Ruggerini - 10-35118-1	16.194.02
16.050.00	3/8"	29300-2001	F35B-9-10-35211-3; F35B-9-902-10-35211-4; F35B-9-10-35122-1 with brass	16.194.02
16.136.00	3/8"	29470-2131	F4B-9-10-35161-1	16.194.03
16.138.00	3/8"	29470-2531	F4B-9-10-35098-1-2-3	16.194.04
16.045.00	3/8"	29470-2431	F4B-9-10-35355-01 Lombardini 1503LD YM-2004-M	16.194.04
16.016.00	1/2"	22950-0001	-	16.016.01
16.039.00	3/4"	3270-200 (3270-2401)	F5B-9-10-24119-2-3	16.194.05
16.065.00	3/4"	-	F5B-9-10-24119-4-F5B-9003; F5B-9-9003-10-24119; F5B-9-10-35100-1	16.194.05
16.046.00	3/4"	29500-1501	F5B-9-10-24334-01	16.194.05
16.059.00	3/4"	-	F5B-9-10-24184-1 MVM-F5B-9-24086-1	16.194.05
16.149.00	D 28	29500-1001	-	16.194.05
16.037.00	3/4"	52.040-2001	F5B-8-10-24073-1/9/11	16.194.05
16.146.00	1"	23430-1001	F7B-9-10-24127-1	16.194.06
16.055.00	flange	9700-21	F7B-9-10-24183-1/10-24014-1	16.194.06
16.160.00	D 32	-	F7B-9-03-24524/Volvo 3581558	16.194.06
16.041.00	1"	52080-2001	F7B-8-10-24070-1	16.194.06
16.042.00	1" 1/2	52200-2011	F8B-8-10-13021-5	16.194.07
16.040.00	-	-	F4B-903-10-24509-2	16.194.03
16.036.00	3/8"	52020-2001	F4B-8-10-24074-1	16.194.11
16.052.01	3/4"	-	F7B-8-10-24571-01	16.194.05
16.052.02	3/4"	-	F7B-8-10-24571-13	16.194.05
16.051.01	1"	-	F7B-8-10-24572-01	16.194.26
16.051.02	1"	-	F7B-8-10-24572-13	16.194.26
16.067.01	3/8"	29450-1201; 29450-1001; 29450-1401; 29450-1231; 29450-1431; 29450-1301	F48-903	16.194.04
16.067.60	-	29700-1301 (7.5-mm cam) ; 29700-1331 (camma 6 mm)	-	16.194.18

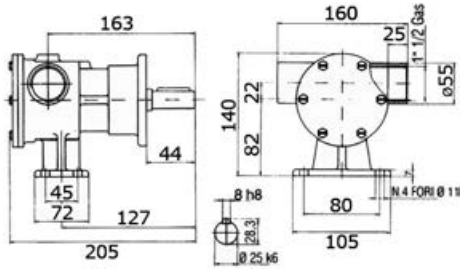


NAUCO 36-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min				
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000
0	28	53	80	87	96
0,3	24	48	75	83	94
0,6	20	45	78	81	93
1	18	41	68	77	88
1,5	15	35	60	68	82

Code	Spare motor	Flow l/min	Inlet	Equivalent item		Spare impeller
				Jabsco	Johnson	
16.041.00	up to 400 HP	25-102	1"	52080-2001	F7B-8-10-24070-1	**16.194.06**



NAUCO 40-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min				
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000
0	95	121	195	260	293
0,3	87	114	188	242	279
0,6	80	107	181	233	270
1	72	102	177	228	265
1,5	-	70	148	204	243
2,5	-	-	109	168	209

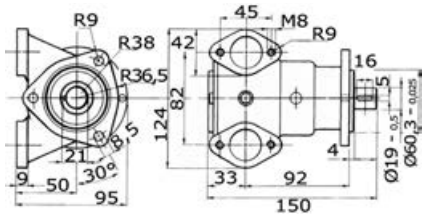
Code	Spare motor	Flow l/min	Inlet	Equivalent item		Spare impeller
				Jabsco	Johnson	
16.042.00	up to 800 HP	65-260	1"1/2	52200-2011	F8B-8-10-13021-5	**16.194.07**

NAUCO FPR050F-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	50	55	85	90	130	170
0,3	48	51	81	100	120	155
0,6	44	47	78	97,5	112	140
1	40	44	73	92	105	131
1,5	35	38	67	87	100	125

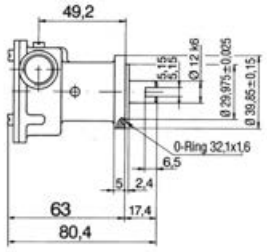
Code	Spare motor	Inlet	Equivalent item		Spare impeller
			Jabsco	Johnson	
16.055.00	AIFO, 503/9/5 - 521 - 5213 - 8361 - 8820 - 8210	flanged 1"	9700-21	F7B-9-10-24183-1/10-24014-1	**16.194.06**



NAUCO ST114-type flanged pump to be directly installed on the engine

Bronze body, neoprene impellers, to be connected to the engine.

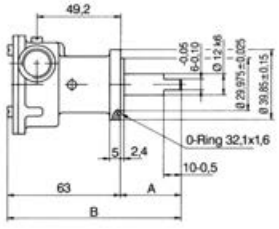
Code	Spare motor	Inlet	Equivalent item			Spare impeller
			Jabsco	Johnson	Ruggerini	
16.038.00	Volvo Penta, Bukh, Arona, Nanni, Ducati, Ruggerini	3/8"	29300-2001/ 29300-2101	F35B-9-10-32412-10-35157/6	10-35118-1	**16.194.02**



NAUCO FPR009-type pump

Bronze body, neoprene impellers, to be connected to the engine.

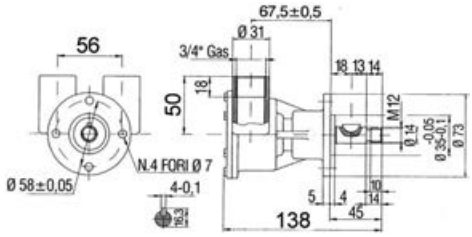
Code	Spare impeller	Inlet	Equivalent item	
			Jabsco	Johnson
16.050.00	**16.194.02**	3/8"	29300-2001	F35B-9-10-35211-3 F35B-9-902-10-35211-4 F35B-9-10-35122-1 with bush



NAUCO FPR044-type pump

Bronze body, neoprene impellers, to be connected to the engine.

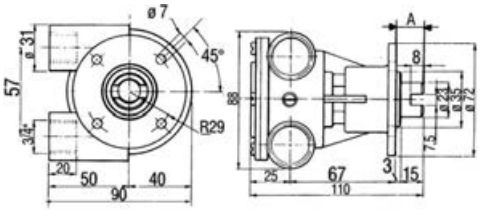
Code	Spare motor	Equivalent item Johnson	Spare impeller
16.059.00	Nanni	F5B-9-10-24184-1 MVM-F5B-9-24086-1	**16.194.05**

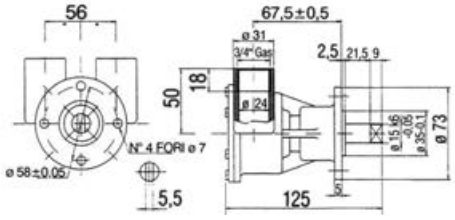


NAUCO FPR040-type flanged pump to be directly installed on the engine

Bronze body, neoprene impellers, to be connected to the engine.

Code	Spare motor	Inlet	A mm	Equivalent item		Spare impeller
				Jabsco	Johnson	
16.039.00	Aifo, Bmw, C. Power, Lehman, VM, Ct-Marine	3/4"	18	3270-200 (3270-2401)	F5B-9-10-24119-2-3	**16.194.05**
16.065.00	-	3/4"	20	-	F5B-9-10-24119-4-F5B-9003 F5B-9-9003-10-24119 F5B-9-10-35100-1	**16.194.05**



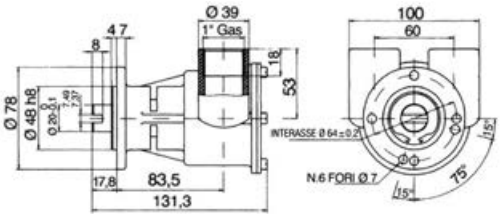


NAUCO FPR043-type flanged pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	21	27	41	49	56	60
0,3	19	25	38	47	54	57
0,6	18	23	37	42,5	48	55

Code	Spare motor	Inlet	Equivalent item		Spare impeller
			Jabsco	Johnson	
16.046.00	Nanni	3/4"	29500-1501	F5B-9-10-24334-01	**16.194.05**



NAUCO FPR046-type pump

Bronze body, neoprene impellers, to be connected to the engine.

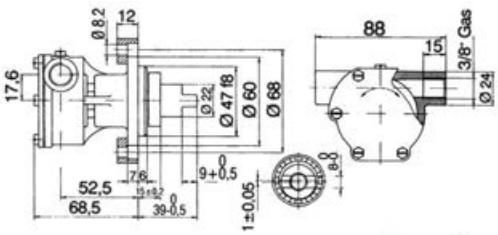
bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	40	44	74	84	94	100
0,3	38	42	71	80	91	97
0,6	35	39	65	76	87	95

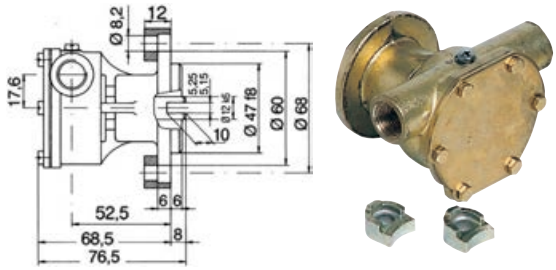
Code	Spare motor	Inlet	Equivalent item		Spare impeller
			Jabsco	Johnson	
16.146.00	"VM" a 4/6 cylinders	1"	23430-1001	F7B-9-10-24127-1	**16.194.06**

NAUCO FPR236-type pump

Bronze body, neoprene impellers, to be connected to the engine.

Code	Spare motor	Inlet	Equivalent item		Spare impeller
			Jabsco	Johnson	
16.136.00	Vetus	3/8"	29470-213	F4B-9-10-35161-1	**16.194.03**

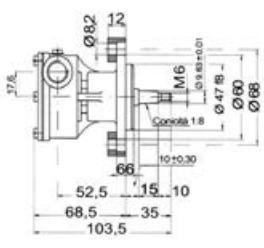




NAUCO FPR038/034-type pump

Bronze body, neoprene impellers, to be connected to the engine.

Code	Spare motor	Thread	Equivalent item		Spare impeller
			Jabsco	Johnson	
16.138.00	Volvo Penta series "2000", Lombardini Low 903, Aifo 4041	3/8"	29470-2531	F4B-9-10-35355-01	**16.194.04**



NAUCO FPR039-type pump

Bronze body, neoprene impellers, to be connected to the engine.

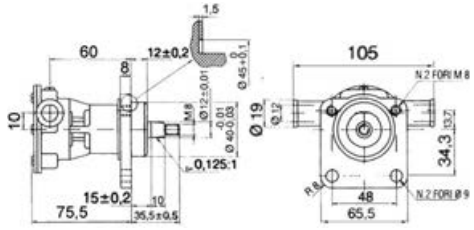
Code	Spare motor	Inlet	Equivalent item				Spare impeller
			Jabsco	Johnson	Lombardini	YM	
16.045.00	Lombardini	3/8"	29470-2431	F4B-9-10-35355-01	1503LD	2004-M	**16.194.04**

NAUCO FPR0012-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	9	11	15	16,5	18	23
0,3	8	9	13	14	15	21
0,6	7	8	12	13,5	14,5	20
1	4	6	8	9	13	15

Code	Spare motor	Inlet	Equivalent item		Spare impeller
			Jabsco	Johnson	
16.044.00	Perkins 3/4 cylinders	smooth Ø mm 20	29350-1001	F4B-9-10-24335-01	**16.194.01**

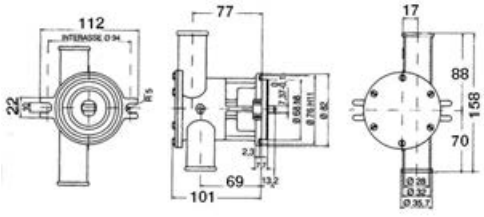


NAUCO ST160/161-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	50	55	85	90	130	170
0,3	48	51	81	100	120	155
0,6	44	47	78	97,5	112	140
1	40	44	73	92	105	131
1,5	35	38	67	87	100	125

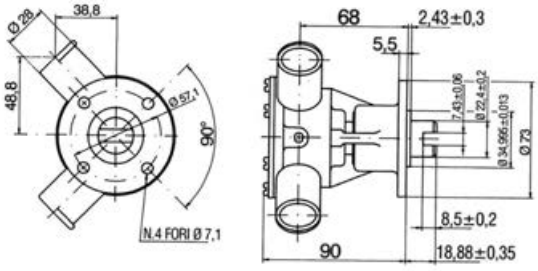
Code	Spare motor	Equivalent item		Spare impeller
		Johnson	Volvo	
16.160.00	Volvo (Orig. ref. 3581558), KAD 42/43/44/43P/44P engines	F7B9-03-24524	3581558	**16.194.06**



NAUCO FPR049-type pump

Bronze body, neoprene impellers, to be connected to the engine.

Code	Spare motor	Equivalent item Jabsco	Spare impeller
16.149.00	AIFO mod. 8041 and others	29500-1001	**16.194.05**

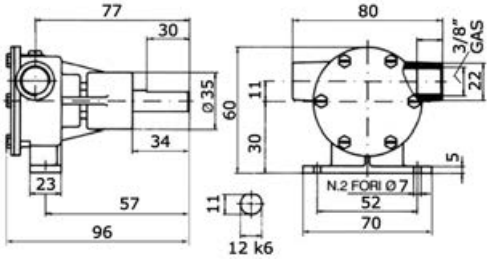


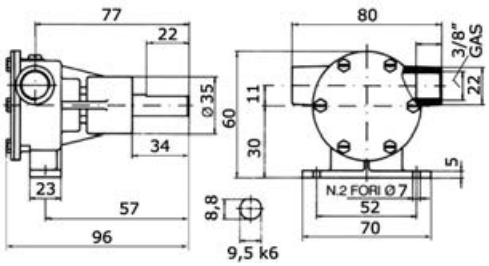
NAUCO FPM005-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	15	18	20	24	26	29

Code	Spare motor	Inlet	Flow l/min	Shaft mm	Equivalent item		Spare impeller	kg
					Jabsco	Johnson		
16.035.00	Up to 20 HP	3/8"	5/29	12 (11-mm key)	52010-2001	F35B-8-10-35038-1/9 without base	**16.194.02**	0.6



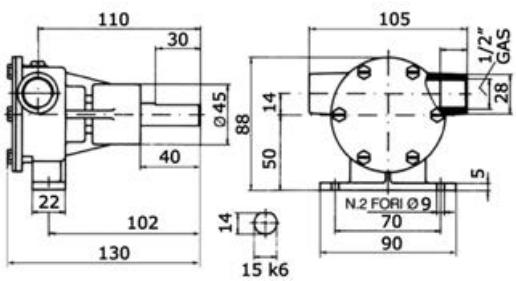


NAUCO FPM001 pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	15	18	20	24	26	29

Code	Spare motor	Inlet	Flow l/min	Shaft mm	Equivalent item		Spare impeller	kg
					Jabsco	Johnson		
16.035.01	up to 20 HP	3/8"	5/29	9,5 Key mm 8,8	52010-2001 (6640-200) (22940-2001)	F35B-8-10-35038-41	**16.194.01**	0.6

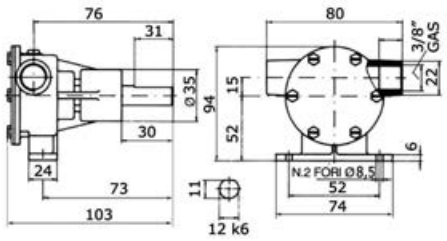


NAUCO PM16 pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	17,5	22,5	36	44	50	60

Code	Spare motor	Inlet	Flow l/min	Equivalent item Jabsco	Spare impeller	kg
16.016.00	up to 80 HP	1/2"	12/60	22950-0001	**16.016.01**	1.2

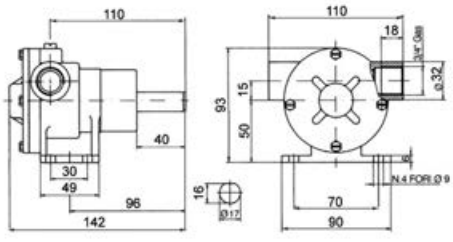


NAUCO PM38 pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000	rpm 2500
0	12	17	22	26	32	35

Code	Spare motor	Inlet	Flow l/min	Equivalent item		Spare impeller	kg
				Jabsco	Johnson		
16.036.00	up to 40 HP	3/8"	4/35	52020-2001	F4B-8-10-24074-1	**16.194.11**	1



NAUCO PM34 pump

Bronze body, neoprene impellers, to be connected to the engine.

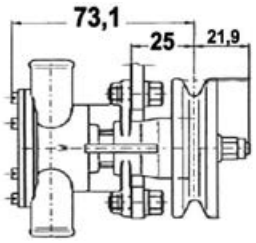
bar	Flow l/min				
	rpm 700	rpm 900	rpm 1400	rpm 1750	rpm 2000
0	18	23	35	44	49
0,3	16	21	33	41	46
0,6	15	20	32	39,5	45
1	14	19	30,5	37,5	42
1,5	13	17	27	33,5	39

Code	Spare motor	Inlet	Flow l/min	Equivalent item		Spare impeller
				Jabsco	Johnson	
16.037.00	up to 150 HP	3/4"	12/48	52.040-2001	F5B-8-10-24073-1/9/11	**16.194.05**

NAUCO FPR313-type pump

Bronze body, neoprene impellers, to be connected to the engine.

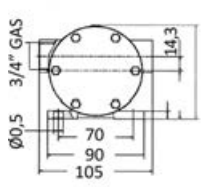
Code	Flow l/min	Equivalent to Johnson	Spare motor	Spare impeller
16.040.00	20/60	F4B-903-10-24509-2	Yanmar 2GM/3GMF/3GM/3GMF	**16.194.03**

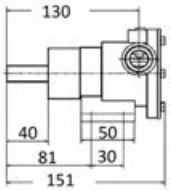


NAUCO 335-type pump

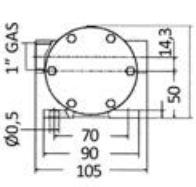
Bronze body, neoprene impellers, to be connected to the engine.

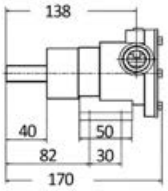
Code	Model	Equivalent	Inlet	Seal	Flow at 2000 RPM	Spare impeller
16.052.01	335	Johnson F7B-8-10-24571-01	3/4"	Mechanic	46 l	**16.194.05**
16.052.02	335	Johnson F7B-8-10-24571-13	3/4"	Rubber ring	46 l	**16.194.05**
16.051.01	336	Johnson F7B-8-10-24572-01	1"	Mechanic	107 l	**16.194.26**
16.051.02	336	Johnson F7B-8-10-24572-13	1"	Rubber ring	107 l	**16.194.26**



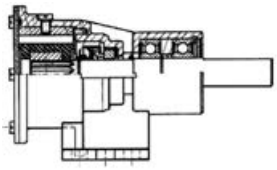


◢ 16.052.01/02





◢ 16.051.01/02



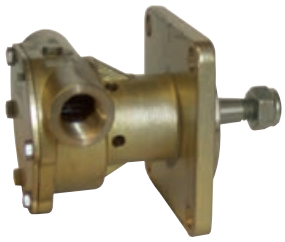
◢ 16.052-051.01/02

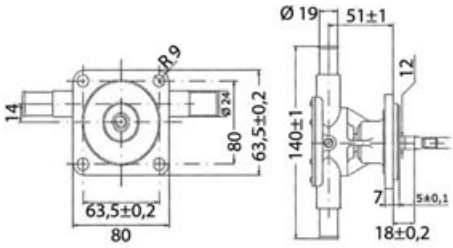
NAUCO 324485-type pump

Bronze body, neoprene impellers, to be connected to the engine.

bar	Flow l/min					
	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
0	13	16	23	25.5	28	32
0.3	11	12	20	22.5	25	29
0.6	9	11.5	16.5	19	21	26
1	5	10.5	15	18	20	25

Code	Spare motor	Outlets	Equivalent item	Spare impeller
16.067.01	Volvo MD2030/MD2040 Derkins M25/30/M3HD20 M35/M40/MC42 3HD46/M50/M60/M80T Stamegna SM40/70/160/180 SMV35	3/8"	Johnson F48-903; VOLVO 3593655; JABSCO 29450-1201; JABSCO 29450-1001; JABSCO 29450-1401; JABSCO 29450-1231; JABSCO 29450-1431; JABSCO 29450-1301	**16.194.04**



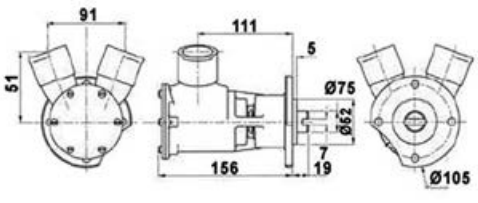


NAUCO 242437 pump

Bronze body, neoprene impellers, to be connected to the engine.

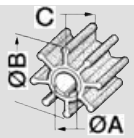
bar	Flow l/min					
	700 rpm	900 rpm	1400 rpm	1750 rpm	2000 rpm	2500 rpm
0	82	85	153	150	195	225
0.3	72	76	122	140	180	210
0.6	66	70	116	135	168	205
1	60	66	110	130	157	200

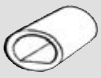
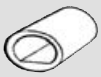
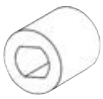
Code	Spare motor	Hose fitting	Equivalent item	Spare impeller
16.067.60	VM HR 694 H1D10-29700-1301 Mercruiser D183-D254-29700-1331	45-mm Ø	Jabsco 29700-1301 (7.5-mm cam) Jabsco 29700-1331 (6-mm cam)	**16.194.18**



► Impellers for inboard engine pumps

JABSCO inboard engines



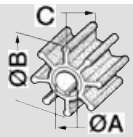
CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.00	-	7273-0001	110			7.31 / 8	50.8	22.1	6	7
16.194.16	-	21414-0001; 21411-0001; 1411-0001 1414-0001	113			8	31.3	11.9	6	1
16.194.22	-	14787-0001; 14609-0001; 1414-0001	130			8	31.75	12	6	3
16.194.29	T	17954-0001	109			16.85 / 19	66.5	50.6	8	20
16.194.32	N	1414-0003	230			8	31.75	12	6	1
16.194.38	-	6303-0001	138			7.31 / 8	51.3	22	6	8
16.194.52	-	17370-0001	152			20.2	95	88.5	12	15
16.193.73	N	6303-0003	238			7.31 / 8.07	51.3	22	6	8
16.193.98	-	9200-0001/21	106GT			8	40	19	6	6
16.194.01	GX	4528-0001; 3586494	100			9.5	39.6	18.94	6	4
16.194.02	GX	22405-0001; 21951342	121			12	39.6	19.2	6	4
16.194.03	GX	653-0001	101			12.17	50.8	22.1	6	7
16.194.04	GX	673-0001 (6 blades); 21951344; 22222936	116			12.66	50.8	22.1	6	7

CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.31	GX-N	4528-0003	200			9.5	39.6		6	4
16.194.33	GX-N	673-0003	216			12.66	50.8	22.1	6	7
16.194.43	X	18.94	146			12.17	51.8	22	10	9
16.194.44	GX	673.0001	156			12.7	51.8	22		9
16.194.73	GX-N	653-0003	201			12.17	50.8	22.1	6	10
16.194.05	GT	1210-0001; 3085-0001; 21951348; 21951346	107			14.29 / 16	57	31.6	12	26
16.194.06	GT	920-0001 (8 blades); 21951356	106			14.29 / 16	65	50.2	8	11
16.194.07	GT	836-0001	105			22.5 / 25.4	96	63.1	9	13
16.194.08	GT	17936-0001; 21676-0001	145			22.5 / 25.4	95	88.5	12	15
16.194.18	HD.K	17018-0001	187			14.29 / 16	65.2	76.65	8	11
16.194.23	-	13554-0001	124			14.29 / 16	57	48.2	12	26
16.194.24	T	17935-0001	135T			22.5 / 25.4	95	63.1	12	15
16.194.25	GT	22120-0001	104			14.29 / 16	57	50.2	12	26
16.194.26	T	17937-0001	114			14.29 / 16	65	50.1	10	20
16.194.34	GT-N	836-0003	205			22.5 / 25.4	96	63.1	9	13
16.194.35	GT-N	1210-0003	207			14.29 / 16	57	31.6	12	26
16.194.36	T-N	17937-003	214			14.29 / 16	65	50.1	10	20

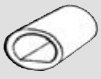
CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.37	GT-N	920-0003	206			14.29 / 16	65	50.2	8	11
16.194.40	T	6760-0001	115T			22.5 / 25.4	95	88.5	9	13
16.194.45	-	17935-0003	235			22.5 / 25.4	95	63.1	12	15
16.194.54	-	11979-0001	155			14.29 / 16	65	36.5	8	11
16.194.57	GT	17018-0001 B; 3593573	177.GT			14.29 / 16	65.2	75.65	8	11
16.194.09	CGT	4568-0001	108			15.93 / 16	57	31.6	12	26
16.194.10	T	4598-0001	102			15.9 / 16	65	50.2	8	11
16.194.13	-	22799-0001	129			12.75	50.8	22.1	6	7
16.194.14	GT	18948-0001	120			15.9	65.2	41.3	12	21
16.194.15	GT	18958-0001	164			20.1	84	73.5	12	24
16.194.17	GT	18838-0001; 3854286	103			15.9	62	31.7	12	22
16.194.39	CGT-N	4568-0003	208			15.9	57	31.6	12	26
16.194.42	G	18327-0001	167			16	65	51.2	12	20
16.194.67	GT	1877-0001; 22120-0001; 876120	133GT			14.29 / 16	57.18	50.25	10	-
16.194.77	-	17240-0001; 18789-0001	144			22.5 / 25.4	117.6	88.5	9	28
16.194.78	G	18786-0001	153			20.2	117.6	88.5	9	28
16.194.80	G	17938-0001	163			22.5 / 25.4	95	95	12	15

Accessories: G: gasket. GT: gasket + cap. GX: gasket + nut. X: nut. CGT: key + gasket + cap. N: oil-resistant nitrile rubber. T: cap.

JOHNSON inboard engines

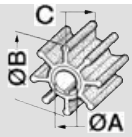


CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	09-0806B	100			9.54	39.6	18.94	6	4
16.194.02	GX	09-808B	121			12	39.6	19.2	6	4
16.194.03	GX	09-0810B	101			12.17	50.8	22.1	6	7
16.194.04	GX	09-1026B	116			12.66	50.8	22.1	6	7
16.194.38	-	09-824P; 09-834	138			7.31 / 8	51.3	22	6	8
16.194.31	GX-N	09-0806B-9	200			9.54	39.6	18.94	6	4
16.194.33	GX-N	09-1026B-9	216			12.66	50.8	22.1	6	7
16.194.73	GX-N	09-0810B-9	201			12.17	50.8	22.1	6	-
16.194.05	GT	09-1027B	107			14.29 / 16	57	31.6	12	26
16.194.06	GT	09-1028B	106			14.29 / 16	65	50.2	8	11
16.194.07	GT	09-1029B	105			22.5 / 25.4	96	63.1	9	13
16.194.08	GT	09-814B	145			22.5 / 25.4	95	88.5	12	15
16.194.23	-	09-0812B	124			14.29 / 16	57	48.2	12	26
16.194.24	T	09-0819B	135T			22.5 / 25.4	95	63.1	12	15
16.194.26	T	1028B	114			14.29 / 16	65	50.1	10	20
16.194.34	GT	09-1029B-9	205			22.5 / 25.4	95	63.1	9	13
16.194.35	GT	09-1027B-9	207			14.29 / 16	57	31.6	12	26
16.194.37	GT	09-1028-B-9	206			14.29 / 16	65	50.2	8	11

CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.40	T	09-0802B	115T			22.5 / 25.4	95	88.5	9	13
16.194.60	T	09-820B	186			22.5 / 25.4	96.5	130	12	15
16.194.62	G	09-821B	162			22.5 / 25.4	65.8	80	12	21
16.194.84	CG	09-801-B; 21951350	170			16	57	31.6	12	26
16.194.41	-	09-1052S-9	232			8	44.6	13	6	5
16.193.73	-	09-824P9	238			7.31 / 8.07	51.3	22	6	8
16.194.13	-	09-827	129			12.75	50.8	22.1	6	7
16.194.51	-	09-1052B	132			8	44.6	13	6	8

Accessories: G: gasket. GT: gasket + cap. GX: gasket + nut. X: nut. CGT: key + gasket + cap. N: oil-resistant nitrile rubber. T: cap.

SHERWOOD inboard engines

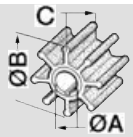


CEF impeller code	Accessories	Original Ref.	CEF Ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	9979	100			9.54	39.6	18.94	6	4
16.194.10	T	10187; 12338	102			15.9	65	50.2	8	11
16.194.14	GT	10615K	120			15.9	65.2	41.3	12	21
16.194.15	GT	17000K	164			20.1	84	73.5	12	24
16.194.17	GT	9959K	103			15.9	62	31.7	12	22
16.194.31	GX-N	9979	200			9.54	39.6	18.94	6	4
16.194.36	T	18200	214			14.29 / 16	65	50.1	10	20
16.194.42	G	15000K	167			16	65	51.2	12	20
16.194.48	G	9000K	165			15.95	62.2	22.4	12	22

CEF impeller code	Accessories	Original Ref.	CEF Ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.49	-	10077K	166			12.8	56.6	19.8	12	26
16.194.63	G	27000K	181			16.1	84	73	12	24
16.194.64	GX	18000K	182			20.7	94.5	101.5	12	15
16.194.66	G	10077	166			12.8	56.6	19.8	12	-
16.194.55	G	8000K	190			12.2	19	40	6	4
16.194.26	T	18200	114			14.29 / 16	65	50.1	10	20
16.194.75	GX	29000K	192			20	94.5	101.5	12	15

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; N: oil resistant nitrile rubber; X: nut; CGT: key + gasket + cap; T: cap.

VOLVO inboard engines

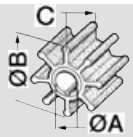


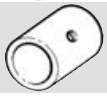
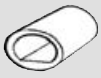
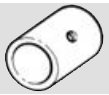
CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	803729; 875807-0; 3586494; 876554-7; 833550; 21972908	100			9.54	39.6	18.94	6	4
16.194.02	GX	875583; 833995; 21951342; 3586496	121			12	39.6	19.2	6	4
16.194.03	GX	876097	101			12.17	50.8	22.1	6	7
16.194.04	GX	8758C3; 3593659; 3596497; 21213660; 804696; 875808-8; 876690; 21951344; 897055; 3580066; 3586497; 22222936	116			12.66	50.8	22.1	6	7
16.194.31	GX-N	803729; 875807-0; 876554-7	200			9.54	39.6	18.94	6	4
16.194.05	GT	3862281; 875811-2; 877400; 21951346; 3858256; 3862567; 3855546; 3856039; 21951348	107			14.29 / 16	57	31.6	12	26
16.194.57	GT	3583602; 3593573; 3588476; 3819486	177			14.29 / 16	65.2	75.65	8	11
16.194.06	GT	877061; 875593-6; 3841697; 21951356	106			14.29 / 16	65	50.2	8	11
16.194.07	GT	875736-1; 2430184; 875660-3; 807904; 21730344; 21951360	105			22.5 / 25.4	96	63.1	9	13

CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.08	GT	875814; 875697; 21951364	145			22.5 / 25.4	95	88.5	12	15
16.194.24	T	877066; 21951362	135			22.5 / 25.4	95	63.1	12	15
16.194.25	T	876120-7; 834794	104			14.29 / 16	57	50.2	12	26
16.194.26	T	3588475	114			14.29 / 16	65	50.1	10	20
16.194.27	G	3842786; 21213664; 21951352; 3593660; 21212794; 3584350; 3588914	178			14.29 / 16	57	48.2	12	26
16.194.34	GT-N	875660; 2430184; 875736; 807904	205			22.5 / 25.4	96	63.1	9	13
16.194.37	GT-N	877061-2; 875593-2; 3841697-2	206			14.29 / 16	65	50.2	8	11
16.194.62	G	876771; 3887761; 21951358	162			22.5 / 25.4	65.8	80	12	21
16.194.56	GT	2121366; 3862567; 21951348	189			16	57	32.05	12	-
16.194.09	CGT	875575-3; 831182	108			15.93	57	31.6	12	26
16.194.10	T	818680	102			15.9	65	50.2	8	11
16.194.14	GT	835874	120			15.9	65.2	41.3	12	21
16.194.17	GT	835512-5; 3854286	103			15.9	62	31.7	12	22
16.194.19	-	3555413-8	380			10	39.6	14.3	12	14
16.194.67	G	834794; 876120	133			14.29	57.18	50.25	10	10
16.194.80	G	3830459	163			22.5 / 25.4	95	95	12	15
16.194.84	CG	-3; 831182; 21951350	170			16	57	31.6	12	26

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

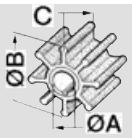
YANMAR inboard engines

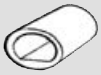


CEF impeller code	Accessories	CEF. Ref.	Original Ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	100	104211-42070 104211-42071			9.54	39.6	18.94	6	4
16.194.31	GT-N	200	104211-42070			9.54	39.6	18.94	6	4
16.194.05	GT	107	129470-42530 129470-42532 129670-42531 127610-42270			14.29 / 16	57	31.6	12	26
16.194.06	GT	106	127610-42200 120650-42310			14.29 / 16	65	50.2	8	11
16.194.23	-	124	119773- 42600-1			14.29 / 16	57	48.2	12	26
16.194.26	T	114	127610-42200			14.29 / 16	65	50.1	10	20
16.194.45	-	161	119593-42200 119593-42202			14.29 / 16	65	68.2	10	23
16.194.09	CGT	108	145410-46090 124310-46090			15.93 / 16	57	31.6	12	26
16.194.13	-	129	124223-42091 124223-42092 128296-42070 128620-42200			12.75	50.8	22.1	6	7
16.194.14	GT	120	128170-02070			15.9	65.2	41.3	12	21
16.194.39	GT-N	208	124310-46090			15.93	57	31.6	12	26
16.194.16	-	113	128176-42071			8	31.3	11.9	6	1
16.194.22	-	130	128170-42070			8	31.75	12	6	3
16.194.32	N	230	128176-42071			8	31.75	12	6	1
16.194.62	G	162	119574- 42550/52			22.5 / 25	65.8	80	12	21
16.193.73	GX-N	238	(pour Water Puppy)			7.31 / 8.07	51.3	22	6	8
16.194.75	-	192	128620-42201			20	94.5	101.5	12	29
16.194.03	GX	101	128990-42200			12.17	50.8	22.1	6	7
16.194.48	G	165	128620-42200			15.95	62.2	22.4	12	22

Accessories: G: gasket. GT: gasket + cap. GX: gasket + nut. X: nut. CGT: key + gasket + cap. N: oil-resistant nitrile rubber. T: cap.

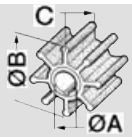
ANCOR pumps



CEF impeller code	Accessories	CEF ref.	Original ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.00	-	110	2745			7.31 / 8	50.08	22.1	6	7
16.194.16	-	113	50013			8	31.3	11.9	6	1
16.194.01	GX	100	50010			9.54	39.6	18.94	6	4
16.194.02	GX	121	50021			12	39.6	19.2	6	4
16.194.31	GX-N	200	50010			9.54	39.6	18.94	6	4
16.194.05	GT	107	50007			14.29 / 16	57	31.6	12	26
16.194.07	GT	105	50005			22.5 / 25.4	96	63.1	9	13
16.194.08	GT	145	50045			22.5 / 25.4	95	88.5	12	15
16.194.24	T	135T	50035			22.5 / 25.4	95	63.1	10	15
16.194.25	T	104	5022			14.29 / 16	57	50.2	12	26
16.194.26	T	114	50009			14.29 / 16	65	50.1	10	20
16.194.34	GT-N	205	50005; 50405			22.5 / 25.4	96	63.1	9	13
16.194.35	GT-N	207	50407			14.29 / 16	57	31.6	12	26
16.194.36	T-N	214	50009			14.29 / 16	65	50.1	10	20
16.194.40	T	115T	50015			22.5 / 25.4	95	88.5	9	13
16.194.13	-	129	50016			12.75	50.8	22.1	6	7
16.194.14	GT	120	50020			15.9	65.2	41.3	12	21
16.194.17	GT	103	50003			15.9	62	31.7	12	22

Accessories: G: gasket; GT: gaskets + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

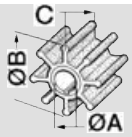
AIFO inboard engines



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.05	GT	4913429	107			14.29 / 16	57	31.6	12	26
16.194.06	GT	8108228	106			14.29 / 16	65	50.2	8	11
16.194.08	GT	8112451	145			22.5 / 25.4	95	88.5	12	15
16.194.26	T	8112772	114			14.29 / 16	65	50.1	10	20
16.194.36	T-N	8112772	214			14.29 / 16	65	50.1	10	20
16.194.37	GT-N	8108228	206			14.29 / 16	65	50.2	8	11
16.194.16	-	828MTEA	113			8	31.3	11.9	6	1

Accessories: G: gasket; GT: gaskets + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

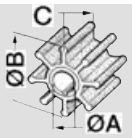
CATERPILLAR inboard engines



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.06	GT	3N1906	106			14.29 / 16	65	50.2	8	11
16.194.08	GT	4L8470	145			22.5 / 25.4	95	88.5	12	15
16.194.24	T	5N9360	135T			22.5 / 25.4	95	63.1	12	15
16.194.37	GT-N	3N1906	206			14.29 / 16	65	50.2	8	11
16.194.57	-	3N5895	177.GT			14.29 / 16	65.2	75.65	8	11
16.194.15	-	1W5664	164			20.1	84	73.5	12	24

Accessories: G: gasket; GT: gaskets + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

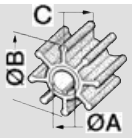
MERCRUISER inboard engines



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.06	GT	47-801332602	106			14.29 / 16	65	50.2	8	11
16.194.18	-	D183/254	187			14.29 / 16	65.2	75.65	8	11
16.194.20	X	312-11-008	123			12	52	25	6	7
16.194.21	X	321-11-008	131			10	39.6	19.2	6	4
16.194.26	T	MB616; SF15/18; 6035413	114			14.29 / 16	65	50.1	10	20
16.194.29	T	47-59362 Bravo I/11 47-59362-TQ01	109			16.85 / 19	66.5	50.6	8	20
16.194.36	T-N	MB616; SF15/18; 6035413	214			14.29 / 16	65	50.1	10	20
16.194.45	-	47-831311350	161			14.29 / 16	65	68.2	10	23
52.320.04	G	47-89984 47-65960	313			22.3	60	33.8	6	12
52.301.00	N	47-43026-T2 47-430262-Q02	301			22.4	89	32.5	6	16

Accessories: G: gasket; GT: gaskets + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

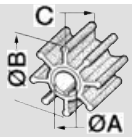
OBERDORFER inboard engines



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.10	T	6603	102			15.9	65	50.2	8	11
16.194.14	GT	8922	120			15.9	65.2	41.3	12	21
16.194.16	-	24880178	113			8	31.3	11.9	6	1
16.194.38	-	6617	138			7.31 / 8	51.3	22	6	8
16.194.24	T	7054	135T			22.5 / 25.4	95	63.1	12	15
16.194.26	T	7441	114			14.29 / 16	65	50.1	10	20
16.194.36	T-N	7441	214			14.29 / 16	65	50.1	10	20

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

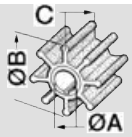
ONAN generators



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	132-0859	100			9.54	39.6	18.94	6	4
16.194.02	GX	132-0310	121			12	39.6	19.2	6	4
16.194.31	GX-N	132-0859	200			9.54	39.6	18.94	6	4
16.194.05	GT	132-0162	107			14.29 / 16	57	31.6	12	26
16.194.24	T	500135	135T			22.5 / 25.4	95	63.1	12	15
16.194.17	GT	132-0117 / 132-0317	103			15.9	62	31.7	12	22
16.194.55	-	132-0415	190.G			12.2	19	40	6	4
16.194.14	GT	132-0349	120			15.9	65.2	41.3	12	21

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

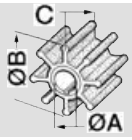
KOHLER generators

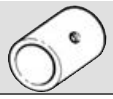


CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø mm	B Ø mm	C mm	Blades	Profile No.
16.194.48	G	229826	165			15.95	62.12	22.4	12	22
16.194.13	-	250872 229955	129			12.75	50.8	22.1	6	7
16.194.55	-	359978	190.G			12.2	19	40	6	4

Accessories: G: gasket.

WESTERBEKE generators

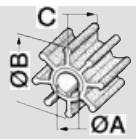


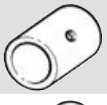
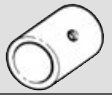
CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø mm	B Ø mm	C mm	Blades	Profile No.
16.194.66	G	11764	166			12.8	56.6	19.8	12	-
16.194.02	GX	33032; 32620	121			12	39.6	19.2	6	4

CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø mm	B Ø mm	C mm	Blades	Profile No.
16.194.48	G	302875	165			15.95	62.2	22.4	12	22
16.194.17	GT	11907	103			15.9	62	31.7	12	22
16.194.03	GX	34440	101			12.17	50.8	22.1	6	7

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut.

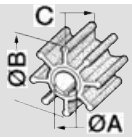
PERKINS inboard engines



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	24880272	100			9.54	39.6	18.94	6	4
16.194.04	GX	24880194	116			12.66	50.8	22.1	6	7
16.194.31	GX-N	24990272	200			9.54	39.6	18.94	6	4
16.194.33	GX-N	24880194	216			12.66	50.8	22.1	6	7
16.194.05	GT	0460038/ 24880190	107			14.29 / 16	57	31.6	12	26
16.194.06	GT	24880031	106			14.29 / 16	65	50.2	8	11
16.194.08	GT	0460027	145			22.5 / 25.4	95	88.5	12	15
16.194.24	T	7054	135T			22.5 / 25.4	95	63.1	12	15
16.194.26	T	04600247/ 24880031	114			14.29 / 16	65	50.1	10	20
16.194.37	GT-N	24880031	206			14.29 / 16	65	50.2	8	11
16.194.62	G	119574-42550	162			22.5 / 25.4	65.8	80	12	21
16.194.14	GT	NA900012	120			15.9	65.2	41.3	12	21
16.194.17	GT	NA9000107/ 24880178	103			15.9	62	31.7	12	22
16.194.44	GX	24880194	156			12.66	51.8	22	10	9

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

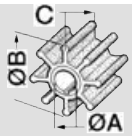
RENAULT inboard engines



CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	RC16D	100			9.54	39.6	18.94	6	4
16.194.06	GT	RC320D	106			14.29 / 16	65	50.2	8	11
16.194.37	GT-N	RC320D	206			14.29 / 16	65	50.2	8	11
16.194.10	T	48300008	102			15.9	65	50.2	8	11
16.194.11	-	all Renault 20/80HP 48300037; 48300055	127			10	50.8	22.1	6	7
16.194.12	-	4830006/07	128			17	66	32	8	11
16.194.31	GX-N	RC16D	200			9.54	39.6	18.94	6	4
16.194.07	GT	RC210D	105			22.5 / 25.4	96	63.1	9	13

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

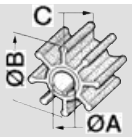
YAMAHA / SOLE inboard engines



CEF impeller code	Accessories	Original reference	CEF Ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.05	GT	351.11.008	107			14.29 / 16	57	31.6	12	26
16.194.06	GT	347.11.008	106			14.29 / 16	65	50.2	8	11
16.194.37	GT-N	347.11.008	206			14.29 / 16	65	50.2	8	11
16.194.14	GT	6TA-12457-00	120			15.9	65.20	41.3	12	21
16.194.17	GT	YSC-101-03-01-OC	103			15.9	62	31.7	12	22
16.194.20	X	Mini 11-17-23-26-34-48	123			12	52	25	6	7
16.194.21	X	11-16-25-31-45 hp	131			10	39.6	19.2	6	4

Accessories: G: gasket; GT: gasket + cap; GX: gasket + nut; X: nut; CGT: key + gasket + cap; T: cap.

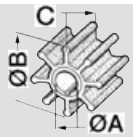
VETUS inboard engines



CEF impeller code	Accessories	Original Ref.	CEF Ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No.
16.194.01	GX	501	100			9.54	39.6	18.94	6	4
16.194.02	GX	601	121			12	39.6	19.2	6	4
16.194.03	GX	801	101			12.17	50.8	22.1	6	7
16.194.31	GX-N	501	200			9.54	39.6	18.94	6	4
16.194.43	X	00701	146			12.17	51.8	22	10	9
16.194.05	GT	201	107			14.29 / 16	57	31.6	12	26
16.194.06	GT	301	106			14.29 / 16	65	50.2	8	11
16.194.07	GT	901	105			22.5 / 25.4	96	63.1	9	13
16.194.08	GT	801	145			22.5 / 25.4	95	88.5	12	15
16.194.26	T	301	114			14.29 / 16	65	50.1	10	20
16.194.34	GT-N	901	205			22.5 / 25.4	95	63.1	9	13
16.194.36	T-N	301	214			14.29 / 16	65	50.1	10	20
16.194.13	-	101	129			12.75	50.8	22.1	6	7
16.193.73	N	50011	238			7.31 / 8.07	51.3	22	6	8

Accessories: G: gasket. GT: gasket + cap. GX: gasket + nut. X: nut. CGT: key + gasket + cap. N: oil-resistant nitrile rubber. T: cap.

NANNI diesel engines

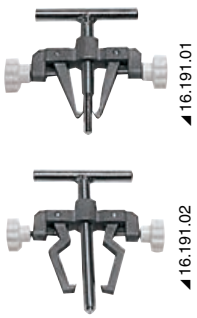


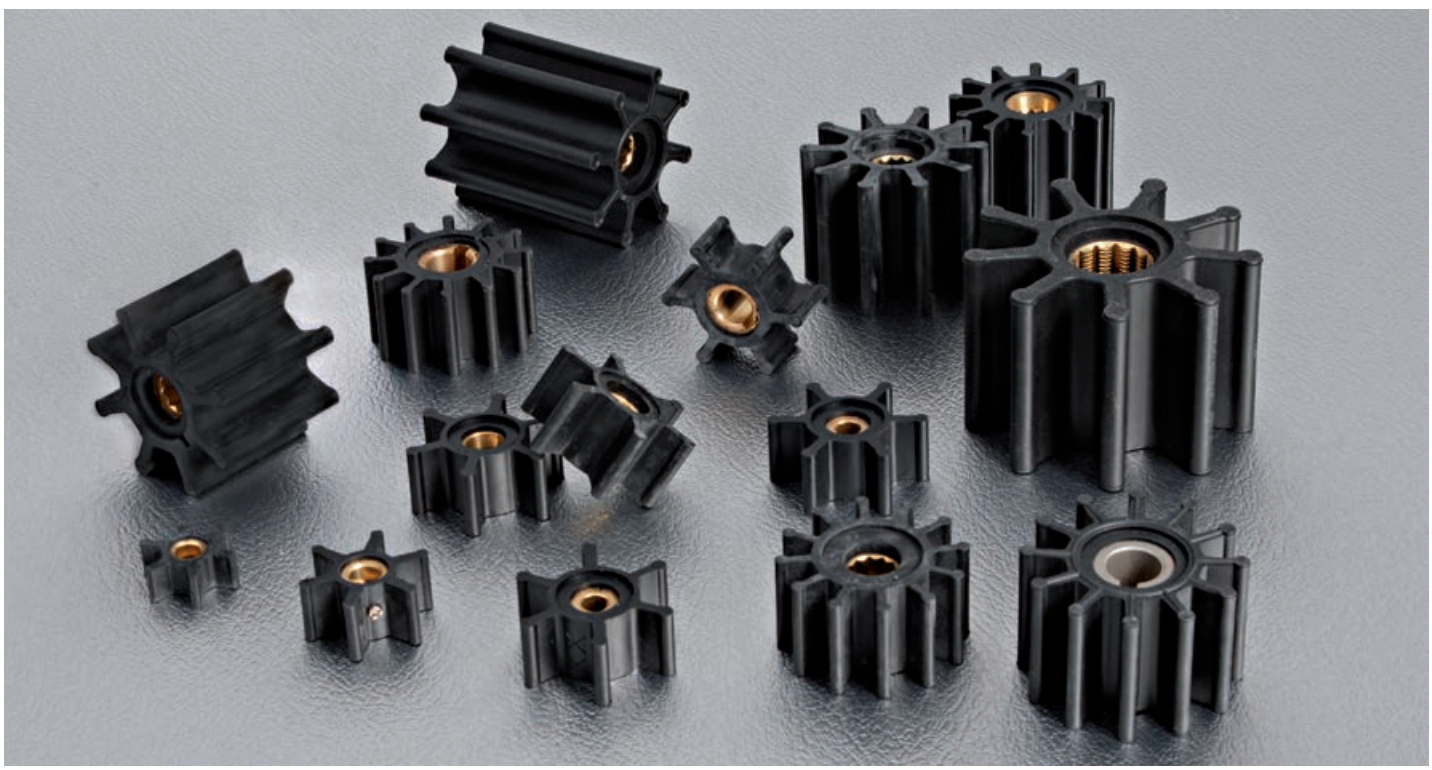
CEF impeller code	Accessories	Original ref.	CEF ref.	Picture	Insert	A Ø (inner/outer) mm	B Ø mm	C mm	Blades	Profile No
16.194.02	GX	FK2,40E/HE,2,60H, KLA,L30,3.90	121			12	39.6	19.2	6	4
16.194.43	X	FK3, 2345H2, 2.50HE, 2.60HE, 3.75HE, 3.90H/HE, 4.110.H	146			12.17	51.8	22	10	9
16.194.05	GT	3.100HE, 3.110HE, 4.110HE, 4.150HE, 4.180, 4.190HE, 4.200HE, MB180,220,330	107			14.29 / 16	57	31.6	12	26
16.194.26	T	4.220HE, 4330TDi, 4.440E, 5.280HE, 5.250TDi, 5.300/T, 6.280HE, 6.570T, 6.660E/LE	114			14.29 / 16	65	50.1	10	20
16.194.06	GT	4.230. 4.240. 4.380. 5.300	106			14.29 / 16	65	50.2	8	11
16.194.24	T	1300. 1600	135			22.5 / 25.4	95	63.1	12	15

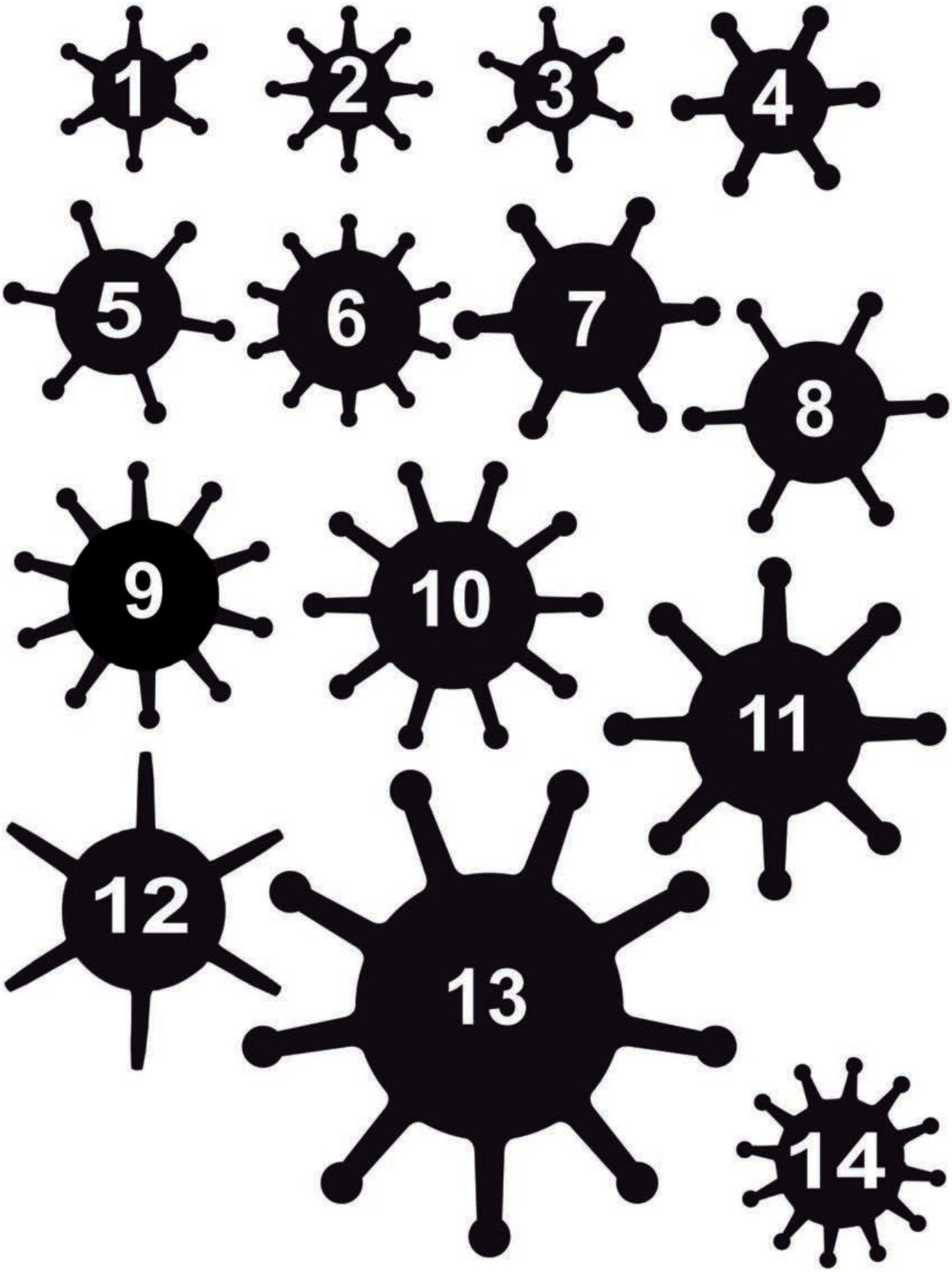
Stainless steel impeller puller tool

Used to remove the neoprene rotor without damaging the pump housing.

Code	For pumps
16.191.01	for inlet up to 1”
16.191.02	for inlet over to 1”



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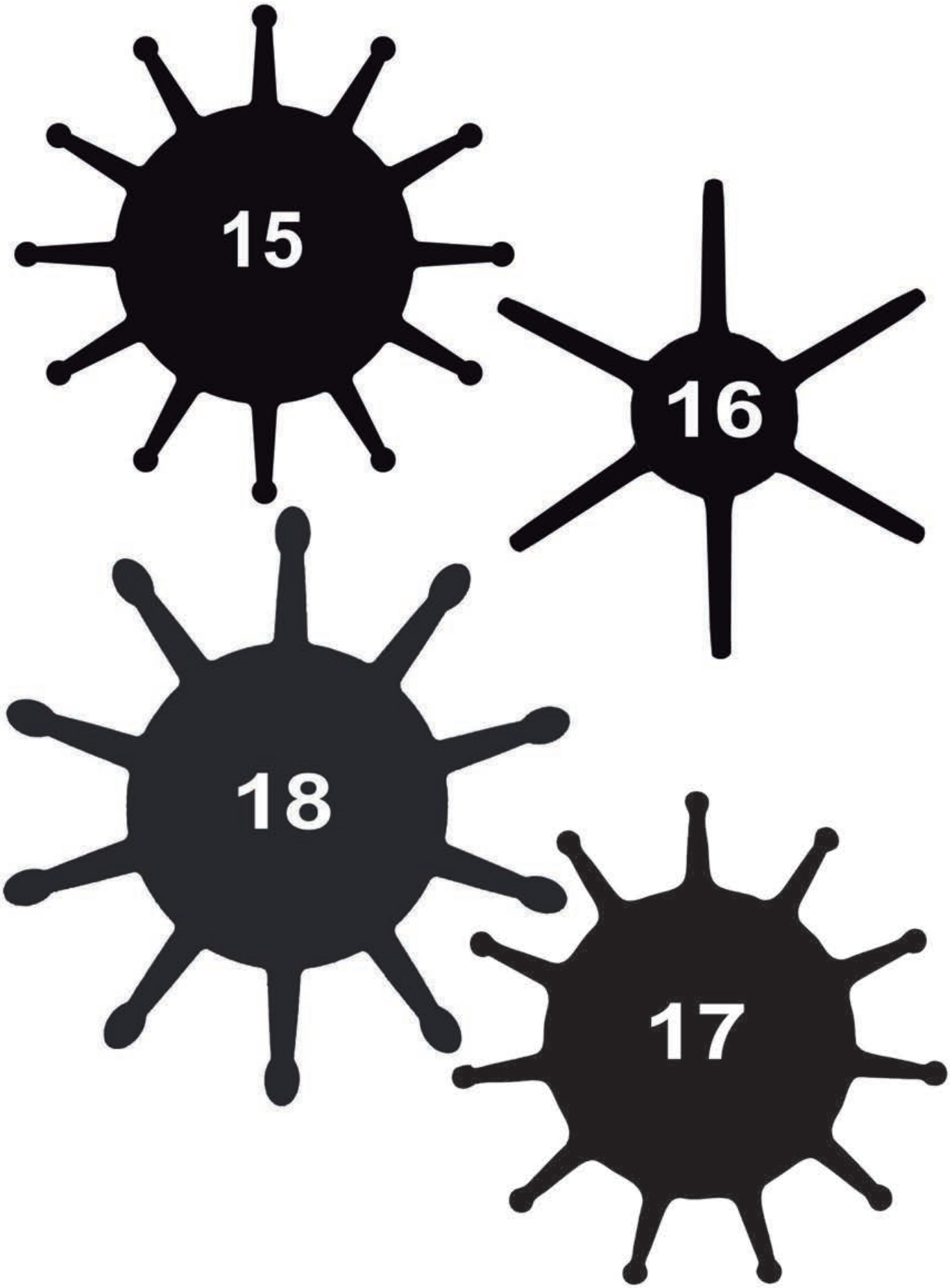
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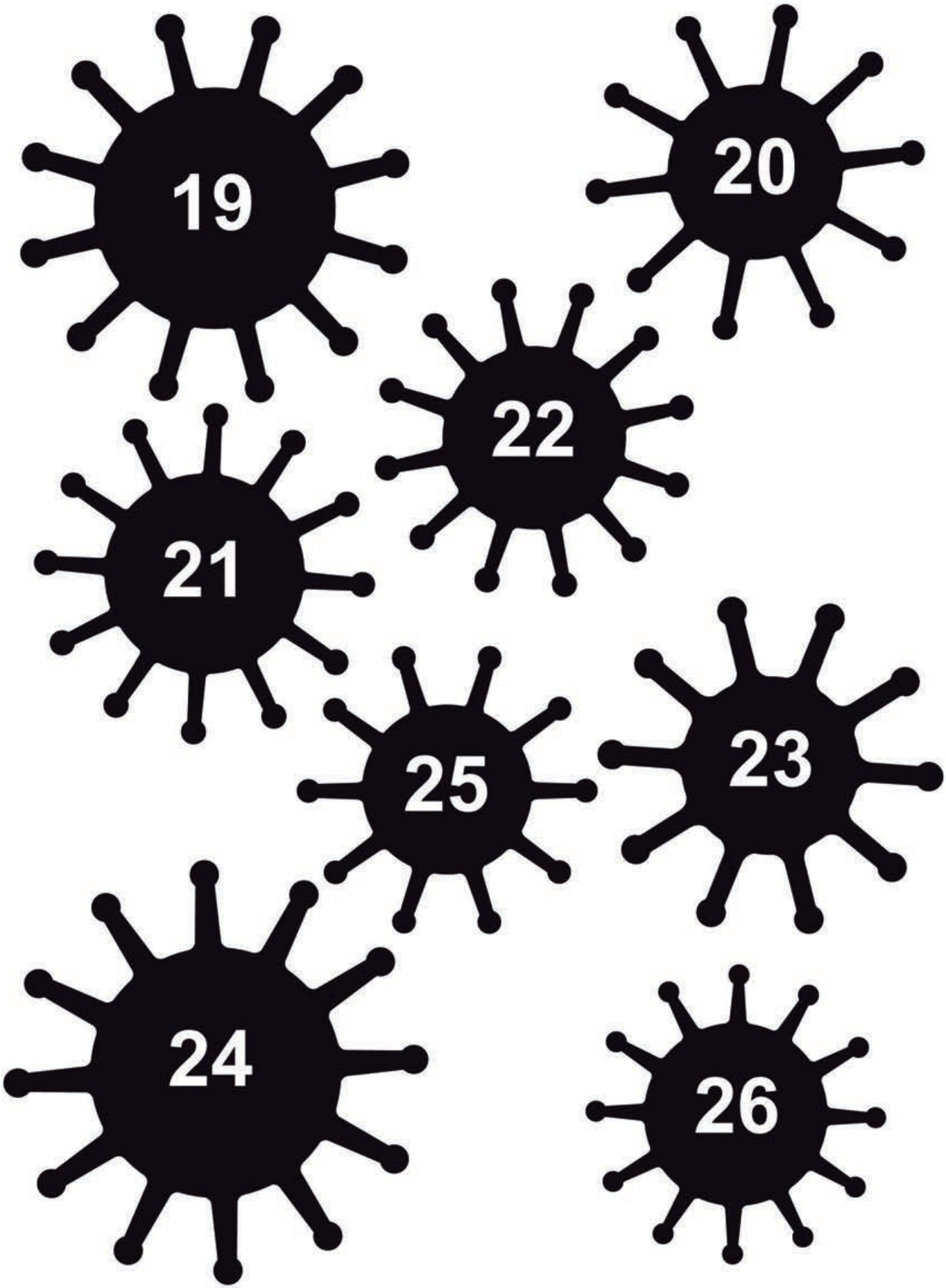
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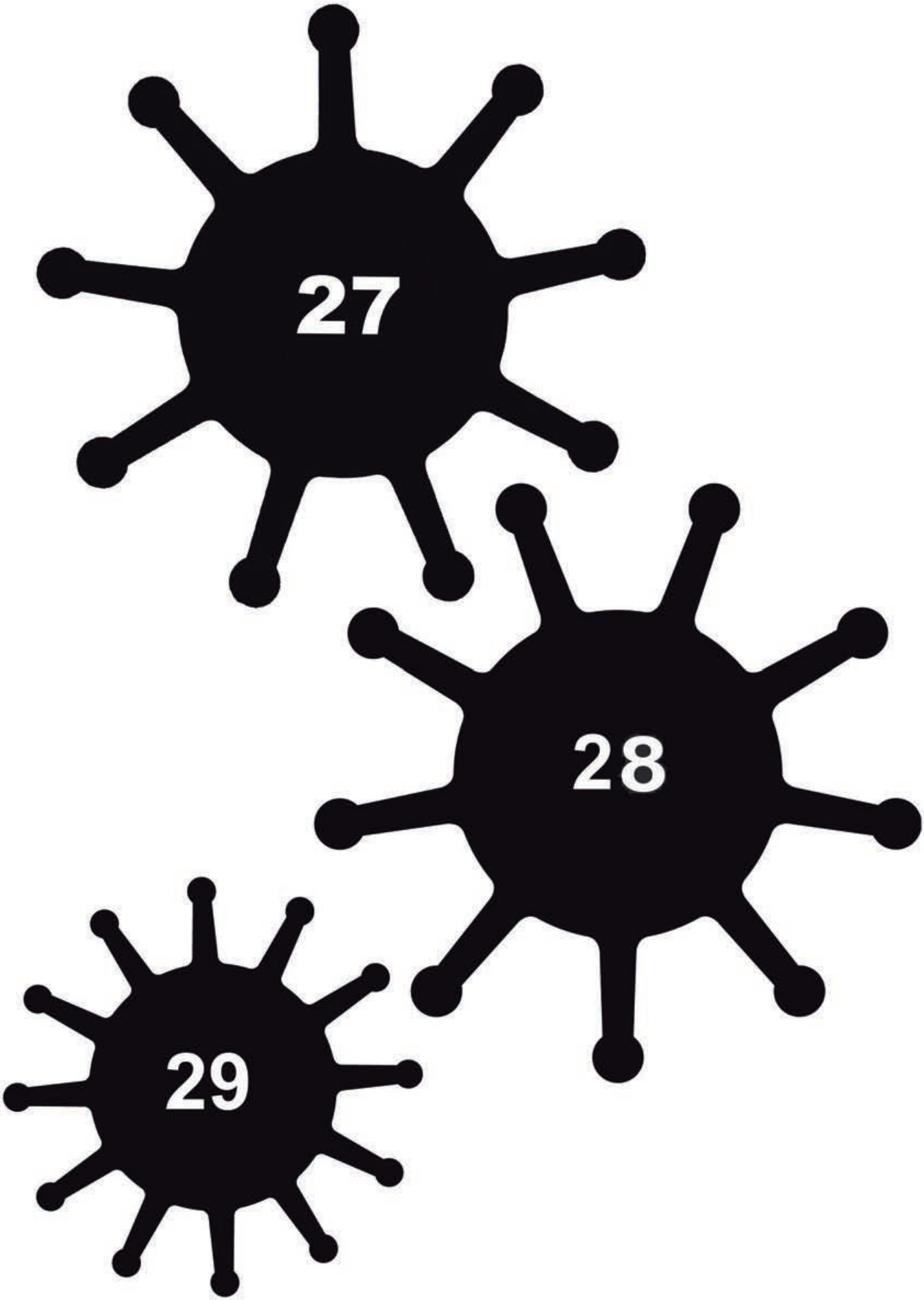
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► Electric blowers

Bilge gas electric blower

CE certified in compliance with the EN ISO 8846. Fitted with bracket for rotation of the blower. Universal model for continuous or intermittent operation.

Code	Voltage	Range m^3/h	Current draw A	Inlet Ø mm	OPTIONAL hose
16.104.15	12V	150	3	76	**16.104.35**

OSCULATI

Bilge gas electric blower, RINA type-approved model

Watertight motor with separate fan. Supplied with drain grid and hose flange. Universal model for continuous or intermittent operation.

Code	Voltage	Capacity m^3/h	Current draw A	Inlet Ø mm	OPTIONAL hose
16.104.20	12 V	260	3.5	75	**16.104.30; 16.104.35**
16.104.21	24 V	260	1.8	75	**16.104.30; 16.104.35**

CE

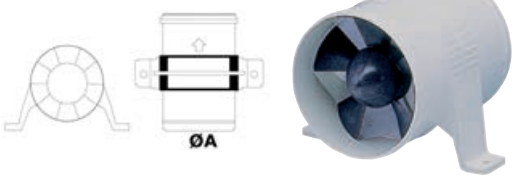
◢16.172.01 ◢16.172.02/03

SUPERFLOW axial electric blower

Water-resistant blower made in compliance with the **ISO 8846** and **CE**-RoHS standards.
Ideal for efficient ventilation and cooling of cabins and **engine rooms**.

Code	V	Inlet/outlet m^3/min	Flow m^3/min	Current draw A	Outlet Ø mm	⟷ mm	OTPIONAL hose
16.172.01	12	3.8	2.5	3	79	131x128x95	**16.104.35**
16.172.02	12	6.7	4.0	4.04	102	131x154x121	**16.104.36**
16.172.03	24	6.7	4.0	2.5	102	131x154x121	**16.104.36**

attwood



ATTWOOD Turbo axial electric blower

CE

Power being equal to traditional blowers, it has a 50% higher performance. Moreover it is the only water resistant blower designed on purpose for humid ambient conditions.
Ideal for efficient ventilation and cooling of cabins and engine rooms.
Very compact, it can be installed in confined spaces. CE certified.

Code	V	Inlet/outlet m^3/min	Flow m^3/min	Current draw A	Ø A mm	⟷ mm	OPTIONAL hose
16.173.30	12	3.3	2.5	3.1	78	130x130x91	**16.104.35**
16.174.30	12	6	4	4.4	102	130x154x113	**16.104.36**
16.174.51	24	6	4	2.5	102	130x154x113	**16.104.36**

Metal-reinforced fiberglass and PVC hose for electric blowers

Heat-resistant up to 130°, **self-extinguishing**, very flexible, made on purpose for engine room ventilation.

Code	Pieces m	Ø mm	For blowers
16.104.35	10	80	**16.104.20; 16.104.21; 16.173.30; 16.104.15**
16.104.36	10	104	**16.174.30; 16.174.51**

Light propylene hose for electric blowers

Code	Piece m	Outer Ø mm	For blowers
16.104.30	50	80	**16.104.20; 16.104.21**

Hose for large electric blowers

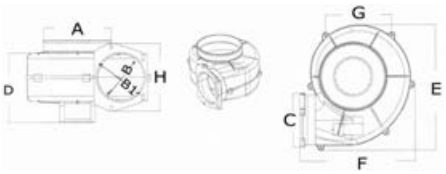
Made of grey polyolefin with PVC cover. Working temperature: -20° +90°. Bend radius: 0.6 x Ø.

Code	Piece m	Ø mm	For blowers
16.104.45	10	110	**16.107.xx**
16.104.46	10	150	**16.106.xx; 16.107.xx**
16.104.47	10	180	**16.108.xx**

Centrifugal electric blower for bulkhead mounting, RINA type-approved

IP44 watertight permanent magnet motor in compliance with ISO8846 standards.
For continuous cooling in engine rooms. White ABS body.

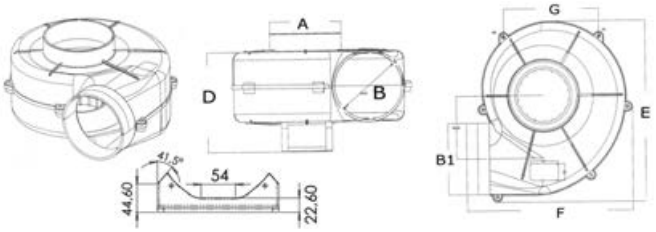
Code	V	Flow m^3/h	A	⟷ mm								
				A	B1	B	C	D	E	F	G	H
16.106.01	12	500	12	100	110	103	119	135	281	257	147	150
16.106.02	24	500	6	100	110	103	119	135	281	257	147	150
16.106.04	12	750	10	150	110	103	119	135	281	257	147	150
16.106.06	24	750	5	150	110	103	119	135	281	257	147	150
16.106.08	24	1000	9	150	110	103	119	155	281	257	147	150



Centrifugal electric blower with bracket, RINA type-approved

IP44 watertight permanent magnet motor in compliance with ISO8846 standards.
For continuous cooling in engine rooms. White ABS body.

Code	V	Flow m^3/h	A	Noise level dB	⟷ mm						
					A	B1	B	D	E	F	G
16.107.01	12	500	11.5	75	100	110	103	135	281	257	147
16.107.02	24	500	7	75	100	110	103	135	281	257	147
16.107.04	12	750	19	75	150	110	103	135	281	257	147
16.107.06	24	750	11	75	150	110	103	135	281	257	147
16.107.08	24	1000	16	85	150	110	103	155	281	257	147



High-flow axial blower

Made of technopolymer, compact and very silent. In compliance with ISO8846 and 55014 standards.
Version A: for in-line mounting on tube. **Version B:** for bulkhead mounting.

Code	Version	V	Flow m^3/h	A	Static pressure	Ø mm	Hose Ø mm	⟷ mm
16.108.01	A	12	750	5	30 mm H2O	220	180	250
16.108.02	A	24	750	2.5	30 mm H2O	220	180	250
16.108.11	B	12	750	5	30 mm H2O	220	180	160
16.108.12	B	24	750	2.5	30 mm H2O	220	180	160

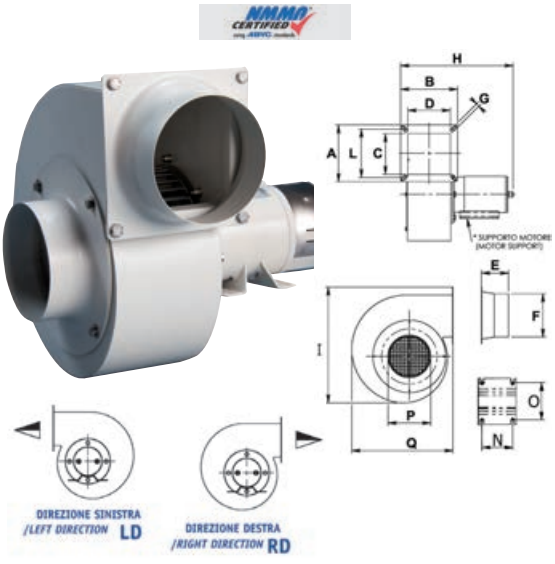
Centrifugal electric blower

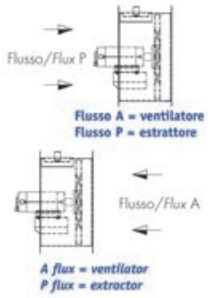
Stabilized steel blades. Fitted with **inlet/outlet** hose adaptor flange and inlet protection grid.

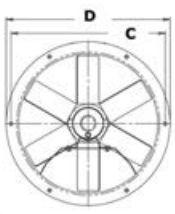
Dimensions and weights

Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L mm	P mm	Q mm	N mm	O mm	Q kg
16.102.07	130	155	90	115	75	98	8	340	270	110	98	225	80	102	6
16.102.08	130	155	90	115	75	98	8	340	270	110	98	225	80	102	6
16.102.11	160	160	110	110	78	118	8	320	322	135	118	273	90	110	10
16.102.12	160	160	110	110	78	118	8	320	322	135	118	273	90	110	10
16.102.15	215	215	160	160	250	160	2 (No 8)	390	410	192	200	340	90	110	19
16.102.16	215	215	160	160	250	160	2 (No 8)	390	410	192	200	340	90	110	19

Code	V	Rotation	Power W	A max	RPM	dBA	Max flow m^3/min	Max pressure mm H2O
16.102.07	24	LD	120	6	2000	56	15	30
16.102.08	24	RD	120	6	2000	56	15	30
16.102.11	24	LD	300	16	2800	65	24	64
16.102.12	24	RD	300	16	2800	65	24	64
16.102.15	24	LD	550	28	2000	70	37	64
16.102.16	24	RD	550	28	2000	70	37	64







Helicoidal electric blower with stabilized polypropylene impeller

Type-tested in compliance with RINa standards on marine materials and equipment.

Sizes and weights

Code	A mm	B mm	C mm	D mm	E mm	F mm	kg
16.103.11	350	360	400	425	215	330	11
16.103.12	350	360	400	425	215	330	11
16.103.03	250	260	285	310	200	330	8
16.103.04	250	260	285	310	200	330	8

Code	V	Flow	Power W	A max	RPM	dBA	Max flow m^3/min	Max pressure mm H2O
16.103.03	24	A	300	11	2500	65	30	13
16.103.04	24	P	300	11	2500	65	30	13
16.103.11	24	A	150	6	1400	62	56	13
16.103.12	24	P	150	6	1400	62	56	13

Nylon/glass impeller, working temperature -40 °C +100 °C. Standard protection grid on impeller side

► Hose connectors and water hook-ups

OSCULATI

16.441.18

16.441.88

16.441.38

New Edge quick-coupling washdown hose connector

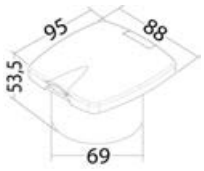
It connects the onboard fresh water system or to the washdown salt water pump and it keeps the line under pressure. The washing hose plugs in onto the inlet and automatically activates the pump.
UV resistant **ASA** box, **chromed brass** device.

White	Chromed	SS	⟷ mm	
			recess Ø	Recess
16.441.18	**16.441.38**	**16.441.88**	69	50

17.224.01 *OPTIONAL 1/2" male elbow fitting to plug into rear inlet hose*
36.189.01; 36.189.03; 36.189.04 *OPTIONAL Front male plug-in fitting*

16.441.88

16.441.38



OSCULATI

16.441.55

16.441.95

16.441.55

16.441.75

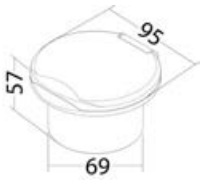
Classic EVO quick-coupling washdown hose connector

It connects the onboard fresh water system or to the washdown salt water pump and it keeps the line under pressure. The washing hose plugs in onto the inlet and automatically activates the pump.
UV resistant **ABS** box, **chromed brass** device.

White	Chromed	SS	⟷ mm	
			recess Ø	recess
16.441.55	**16.441.75**	**16.441.95**	69	43

17.224.01 *OPTIONAL 1/2" elbow fitting to plug rear inlet hose*
36.189.01; 36.189.03; 36.189.04 *OPTIONAL Front male plug-in fitting*

16.441.95



Nuvola quick-coupling hose connector for deck washdown

OSCULATI

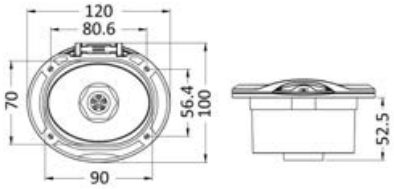
STAINLESS LOOK

It connects to the onboard (fresh) water system or to the (salt water) washdown pump and keep the line under pressure. The washing tube snaps into the hose connector and automatically activates the pump. UV-resistant **ASA** housing with AISI316 stainless steel insert, **chromed brass** mechanism.

Code	⟷ mm	
	recess bore	recess
16.444.00	90x70	52.5

17.224.01 *OPTIONAL 1/2" elbow male fitting for connection to rear inlet tube.*

36.189.01; 36.189.03; 36.189.04 *OPTIONAL Front snap-in male fitting.*



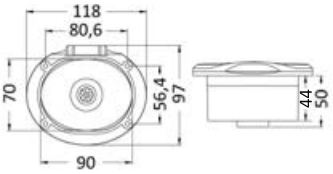
Elissa quick fitting hose connector for deck washdown

OSCULATI

AISI 316

It connects to the onboard water system (fresh water) or to the washdown pump (salt water) and keeps the line under pressure.
The washing tube snaps into the plug and automatically activates the pump.
AISI316 stainless steel compartment, self-supporting hatch.

Code	⟷ mm	
	recess bore	inside projection
16.443.00	90x70	50



New Edge recess fit inlet/outlet hose connector/water hook-up

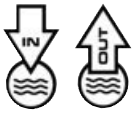
OSCULATI

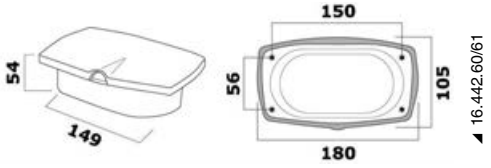
Plug-in connector to tap water from the onboard system and connector fitted with pressure reducer up to 3 bar to pour in water from the dock. 3/4" male thread for pressure reducer outlet.

White	Chromed	⟷ mm	
		Recess	outer
16.442.60	**16.442.61**	148x74x40	180x106

17.224.01 *OPTIONAL 1/2" elbow male fitting for rear inlet hose*

36.189.01; 36.189.03; 36.189.04 *OPTIONAL Front male plug-in fitting*



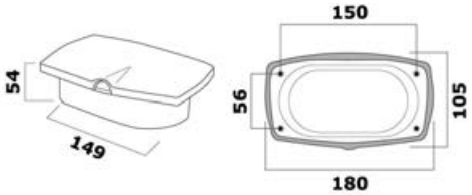


New Edge hose connector/water hook-up with hot/cold water mixer

OSCULATI

With female plug-in connector (standard international sizes) + hot/cold water single-control mixer (17.051.00).

White	Chromed	⟷ mm		Spare mixer
		Recess mm	Outer mm	
16.442.70	**16.442.71**	148x74x40	180x106	**17.051.00**



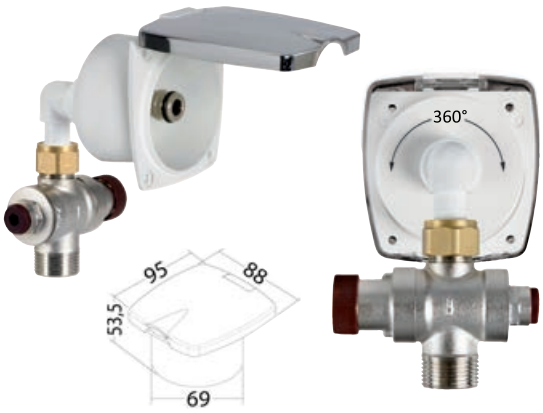
OSCULATI

New Edge recess fit fresh water inlet

When using the mains water supply, pressure can be reduced by up to 3 bar to prevent damage to the pipes. The hose **snaps in using a garden-hose adaptor** (see code 36.189.02). 3/4" thread male outlet.

White	Chromed	SS	⟷ mm		90° fitting
			Recess Ø	Recess	
16.441.14	16.441.34	16.441.84	69	90/120	Included

OSCULATI



Heavy Duty New Edge recess-fit hose connector for fresh water

QUICK SWIVEL CONNECTION **PRESSURE REDUCING VALVE**

Ideal when you want to use quayside fresh water: it reduces the pressure to 3 bars not to damage the pipes by means of an innovative compact system fitted with adjustable pressure regulator and brass check valve. The quayside water pipe snaps into a gardening-like hose connector (see code 36.189.02). BSP male 3/4" outlet thread.

White	Chromed	SS	⟷ mm		90° quick coupling fitting
			Recess Ø	inside projection	
16.445.14	16.445.34	16.445.84	69	110-110	Included

OSCULATI

Classic EVO recess fit fresh water inlet

When using the mains water supply, pressure can be reduced by up to 3 bar to prevent damage to the pipes. The hose **snaps in using a garden-hose adaptor** (see code 36.189.02). 3/4" thread male outlet.

White	Chromed	SS	⟷ mm		90° fitting
			recess Ø	recess	
16.441.53	16.441.73	16.441.83	69	97/125	Included

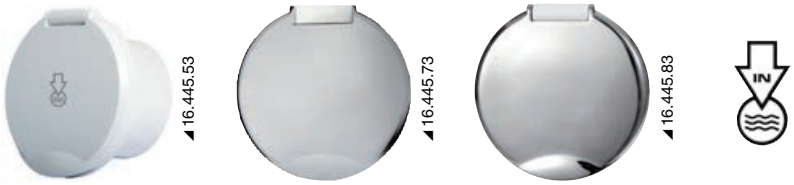
OSCULATI

Heavy Duty Classic EVO recess-fit hose connector for fresh water

QUICK SWIVEL CONNECTION **PRESSURE REDUCING VALVE**

Ideal when you want to use quayside fresh water: it reduces the pressure to 3 bars not to damage the pipes by means of an innovative compact system fitted with adjustable pressure regulator and brass check valve. The quayside water pipe snaps into a gardening-like hose connector (see code 36.189.02). BSP male 3/4" outlet thread.

White	Chromed	SS	⟷ mm		90° quick coupling fitting
			Recess Ø	inside projection	
16.445.53	16.445.73	16.445.83	69	110-110	Included



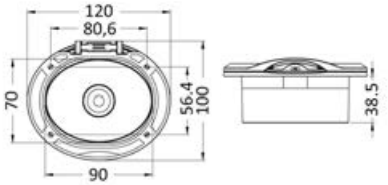
Nuvola fresh water inlet

OSCULATI

STAINLESS LOOK

When using dock water, this inlet reduces pressure to 3 bars to prevent damage to the piping system. The **snap-in** hose connector has a **gardening-type coupling** (see code 36.189.02). 3/4" male outlet thread.
UV-resistant **ASA** box with AISI316 stainless steel insert.

Code	⟷ mm	
	recess bore	recess
16.444.10	90x70	93/147



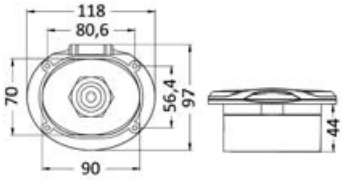
Elissa hose connector for fresh water

OSCULATI

AISI 316 QUICK SWIVEL CONNECTION PRESSURE REDUCING VALVE

Ideal when you want to use quayside fresh water: it reduces the pressure to 3 bars not to damage the pipes by means of an innovative compact system fitted with adjustable pressure regulator and brass check valve. The quayside water pipe snaps into a gardening-like hose connector (see code 36.189.02). BSP male 3/4" outlet thread.
AISI316 stainless steel compartment and self-supporting hatch.

Code	⟷ mm	
	recess bore	inside projection
16.443.20	90x70	110-110



Hose adaptor to be screwed on the rear of New Edge and Classic EVO pressure reducers

Code	Orientation
17.236.21	straight
17.235.01	90° angled
17.815.40	straight (plug-in hoses)

FLOJET docking hose connector and water pressure reducer

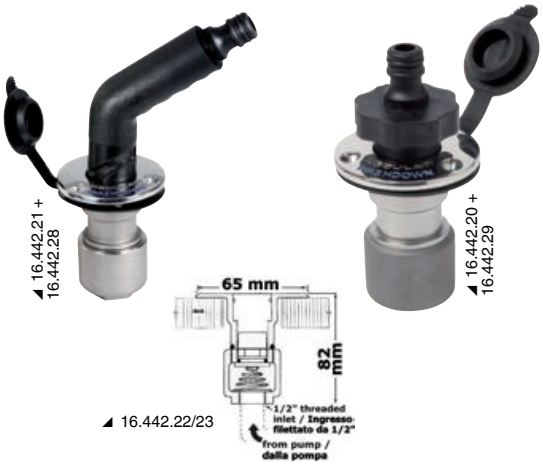
FLOJET

It sets pressure from the mains water supply at 3.1 bar in order to avoid damage to pumps and pipings.

Code	Version	Fittings	⟷ mm	Depth mm
16.441.11	in line	3/4" GHT thread	77x39	-
16.441.12*	recess-fit	1/2" NPT thread	103x110	87

* *Male quick fitting included.*

OSCULATI



◢ 16.442.22/23

Bayonet flush fitting for washdown

The device connects under deck to Washdown pumps or similar items and it keeps the pump under pressure. When the bayonet fitting connects the washing hose, the device automatically opens and activates the pump. 100% **stainless steel**. Garden-type quick fitting on the end caps (36.189.02).

Code	Description	Spare plastic joint	
16.442.22	Bayonet fitting + **straight** plastic fitting	**16.442.31**	(straight)
16.442.23	Bayonet fitting + **sloped** plastic fitting	**16.442.30**	(sloped)

The sloped fitting makes opening easier in case of high-pressure washdown pumps or when the fitting is in a position difficult to plug.

◢ 16.442.31

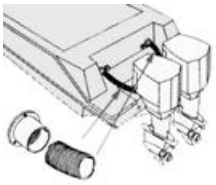
◢ 16.442.30

► Outboard rigging hose and transom fittings

PVC hose for outboard engine cables

PVC reinforced spiral. Same sizes of genuine hoses by OMC, Yamaha, Mercury, etc.

Code	Colour	Inner Ø mm	Roll m	Bushing
16.104.38	grey	50.8	10	**16.104.39; 16.104.40**
16.104.37	white	50.8	10	**16.104.39; 16.104.40**



OSCULATI

◢ 16.104.39

◢ 16.104.40

◢ 16.104.41

Bushing to connect hose 16.104.37/38 to the boat cockpit

The hose is screwed on the inner part of the bushing and its length can be adjusted.

Code	Material	Flange outer Ø mm	Hull thickness mm	Bore in the hull mm	For hose
16.104.39	White plastic	100	56	62	**16.104.37/38**
16.104.40	Mirror-polished AISI316 SS	100	56	62	**16.104.37/38**
16.104.41	Black plastic	100	56	62	**16.104.37/38**

OSCULATI

◢ 16.104.50

◢ 16.104.51

End cap for tubes 16.104.37/38.

Made of prebored soft PVC. To be screwed on the tube until the cables perfectly fit into the slot.

Code	Colour	PACKAGE
16.104.50	White	10
16.104.51	Grey	10
16.104.52	Black	10

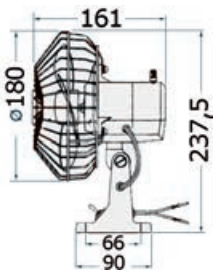
◢ 16.104.52

► Fans

TMC adjustable fan

Adjustable in all positions, fitted with protection grid. Very efficient model and nice look.

Code	V	Flow m^3/h	Mounting
16.706.12	12	1000	2 screws
16.706.24	24	1000	2 screws



CAFRAMO Bora fan

Fitted with central mounting bracket, built-in handle for easy up/down or side-to-side positioning.

Code	Colour	V	No of speeds	Blades	Top speed current draw A	⟷ cm
16.753.12	white	12	3	5" (12.7 cm) ABS	0.24	16.5x24x9
16.754.12	black	12	3	5" (12.7 cm) ABS	0.24	16.5x24x9
16.753.24	white	24	3	5" (12.7 cm) ABS	0.14	16.5x24x9
16.754.24	black	24	3	5" (12.7 cm) ABS	0.14	16.5x24x9

◀16.753.12/24

◀16.754.12/24

CAFRAMO Sirocco II fan

The airflow can be directed in any direction - 360°.
The fan can be folded flat and out of the way against the bulkhead when not in use.
12 and 24V operation. Built-in automatic switch off timer after 3, 6, 9 and 12 hours.

Code	Colour	V	No of speeds	Switch-off timer	Blades	Top speed current draw A	⟷ cm
16.755.00	White	12/24	3	3,6,9,12 hours	7" (17.8 cm) PE FINGER SAFE	0.35	25x30x7.6
16.755.01	Black	12/24	3	3,6,9,12 hours	7" (17.8 cm) PE FINGER SAFE	0.21	25x30x7.6

CAFRAMO Ultimate fan

Extremely compact. PE blade that does not require a protective grill.
Ideal near the station since its motor generates low electrical interference.

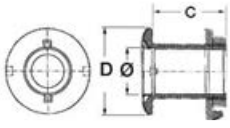
Code	Colour	V	No of speeds	Blades	Top speed current draw A	⟷ cm
16.751.12	black	12	2	7" (17.8 cm) PE	0.41	18x23x14

► 316 stainless steel fittings, skin fittings and valves

OSCULATI

All-thread skin fitting

AISI 316 Supplied with **mirror polished** ground connections.

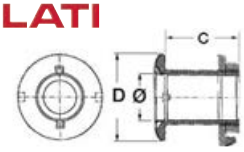


Code	Thread	C mm	D mm	Ø mm
17.421.80	3/8"	53	35	11
17.421.81	1/2"	59	39	15
17.421.82	3/4"	68	49	19
17.421.83	1"	73	55	25
17.421.84	1" 1/4	77	65	34
17.421.85	1" 1/2	80	71	38
17.421.86	2"	95	84	50
17.421.87	2" 1/2	124	110	65

OSCULATI

All-thread fkin fittings - Short thread

AISI 316 Supplied with **mirror polished** ground connections.

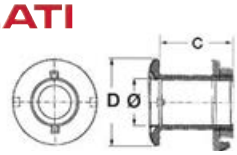


Code	Thread	C mm	D mm	Ø mm
17.421.73	1"	60	48	25

OSCULATI

All-thread skin fitting - Long thread

AISI 316 Supplied with **mirror polished** ground connections.

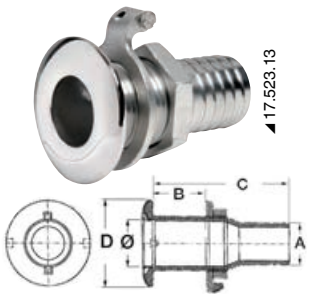


Code	Thread	C mm	D mm	Ø mm
17.422.83	1"	107	55	25
17.422.84	1" 1/4	112	64	35
17.422.85	1" 1/2	112	71	38

OSCULATI

Skin fitting with hose adaptor

AISI 316 Supplied with **mirror polished** ground connections.

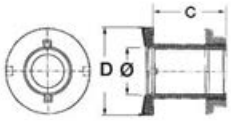


Code	Thread	A mm	C mm	B mm	D mm	Ø mm
17.523.10	3/8"	15	53	21	35	11
17.523.11	1/2"	18	59	26	39	15
17.523.12	3/4"	24	68	32	49	19
17.523.13	1"	30	73	33	55	25
17.523.14	1" 1/4	39	77	34	65	34
17.523.15	1" 1/2	44	80	38	71	38
17.523.16	2	56	95	45	84	50

OSCULATI

Flush-mount skin fitting

AISI 316 Supplied with **mirror polished** ground connections.

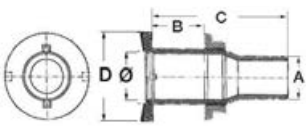


Code	Thread	C mm	D mm	Ø mm
17.525.00	3/8"	53	25	11
17.525.01	1/2"	60	38	15
17.525.02	3/4"	68	50	19
17.525.03	1"	72	55	25
17.525.04	1" 1/4	77	65	34
17.525.05	1" 1/2	78	72	38

OSCULATI

Flush-mount skin fitting with hose adapter

AISI 316 Supplied with **mirror polished** ground connections.



Code	Thread	Ø mm	A mm	B mm	C mm	D mm
17.524.01	1/2"	19	18	28	60	38
17.524.02	3/4"	24	24	36	68	50
17.524.03	1"	31	30	33	72	55
17.524.04	1" 1/4	39	38	39	77	65
17.524.05	1" 1/2	44	44	40	78	72

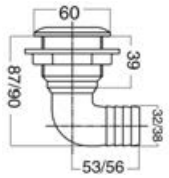
90° skin fitting

AISI 316

Supplied with **mirror polished** ground connections.

Code	Thread	For hose Ø mm	Max hull thickness mm
17.526.04	1" 1/2	32	25
17.526.05	1" 1/2	38	25
17.526.06	1" 1/2	51	25

OSCULATI



Skin fitting with check valve

AISI 316

Made of **mirror polished AISI 316 stainless steel**, fitted with rubber **check valve** and ground connection.

Code	Thread	Length under the head mm	Net passage Ø mm
17.319.30	1" 1/2	78	35
17.319.31	2"	100	42

OSCULATI

Thru-hull scoop strainer

AISI 316

Fitted with ground connection.

Code	Size	Code	Size
17.414.00	3/8"	17.414.05	1" 1/2
17.414.01	1/2"	17.414.06	2"
17.414.02	3/4"	17.414.07	2" 1/2
17.414.03	1"	17.414.08	3"
17.414.04	1" 1/4		

OSCULATI

BHF (Buzzi - Hi - Flow) thru-hull scoop strainer

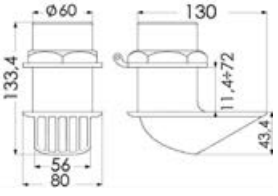
AISI 316

DESIGN BY BUZZI

Section being equal, the special profile of this thru-hull scoop strainer allows for a water inlet volume 2.5 times as large as a traditional one. The stainless steel monoblock casting can stand the pressure of a possible lifting belt. Equipped with ground connection.

Code	Section
17.415.06	2"

OSCULATI



Shut-off full flow ball valve female/female

AISI 316

Made-ready for bracket mounting, made of **AISI 316 stainless steel**.

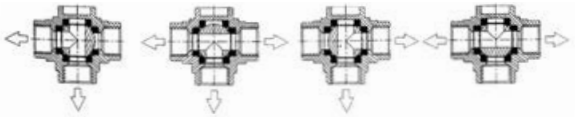
Code	Size	Code	Size
17.721.01	3/8"	17.721.06	1" 1/2
17.721.02	1/2"	17.721.07	2"
17.721.03	3/4"	17.721.08	2" 1/2
17.721.04	1"	17.721.09	3"
17.721.05	1" 1/4		

3-way ball valve female/female/female

AISI 316

Made of **AISI 316 stainless steel**, deviation; fitted with handle lock. "T" maneuvering.

Code	Size	Code	Size
17.722.01	3/8"	17.722.05	1" 1/4
17.722.02	1/2"	17.722.06	1" 1/2
17.722.03	3/4"	17.722.07	2"
17.722.04	1"		



Male hose adaptor

Code	Size	Code	Size
17.306.00	3/8" x 12	17.306.08	1" 1/4 x 35
17.306.01	3/8" x 15	17.306.15	1" 1/4 x 38
17.306.21	3/8" x 16	17.306.09	1" 1/4 x 40
17.306.02	1/2" x 15	17.306.28	1" 1/2 x 38
17.306.22	1/2"x16	17.306.19	1" 1/2 x 40
17.306.03	1/2" x 20	17.306.10	1" 1/2 x 45
17.306.04	3/4" x 20	17.306.11	2" x 50
17.306.05	3/4" x 25	17.306.12	2" x 60
17.306.06	1" x 25	17.306.13	2" 1/2 x 70
17.306.07	1" x 30	17.306.14	3" x 78
17.306.27	1" x 38		

90° male hose adaptor

Code	Size	Code	Size
17.196.02	3/8" x 15	17.196.08	1" x 30
17.196.04	1/2" x 20	17.196.10	1 1/4" x 38
17.196.06	3/4" x 25		

90° female hose adaptor

Draw pipes near hull sides, avoiding pipes sharp curves.

Code	Size	Code	Size
17.194.01	1/2" x 18	17.194.04	1 1/4" x 38
17.194.02	3/4" x 25	17.194.06	2" x 56
17.194.03	1" x 30		

Female hose adaptor

Code	Size	Code	Size	Code	Size
17.210.01	3/8" x 15	17.210.05	3/4" x 25	17.210.09	1" 1/4 x 40
17.210.02	1/2" x 15	17.210.06	1" x 25	17.210.10	1" 1/2 x 45
17.210.03	1/2" x 20	17.210.07	1" x 30	17.210.11	2" x 50
17.210.04	3/4" x 20	17.210.08	1" 1/4 x 35		

90° female/female elbows

Code	Size	Code	Size	Code	Size
17.326.01	3/8"	17.326.04	1"	17.326.07	2"
17.326.02	1/2"	17.326.05	1" 1/4		
17.326.03	3/4"	17.326.06	1" 1/2		

90° male/female elbows

Code	Size	Code	Size	Code	Size
17.124.01	3/8"	17.124.04	1"	17.124.07	2"
17.124.02	1/2"	17.124.05	1" 1/4		
17.124.03	3/4"	17.124.06	1" 1/2		

45° female/female elbows

Code	Size	Code	Size	Code	Size
17.220.01	3/8"	17.220.04	1"	17.220.07	2"
17.220.02	1/2"	17.220.05	1" 1/4		
17.220.03	3/4"	17.220.06	1" 1/2		

Female/female/female T joint

Code	Size	Code	Size	Code	Size
17.318.01	3/8"	17.318.04	1"	17.318.07	2"
17.318.02	1/2"	17.318.05	1" 1/4		
17.318.03	3/4"	17.318.06	1" 1/2		

Double pipe nipples

Code	Size	Code	Size	Code	Size
17.125.01	3/8"	17.125.04	1"	17.125.07	2"
17.125.02	1/2"	17.125.05	1" 1/4		
17.125.03	3/4"	17.125.06	1" 1/2		

Male female reducer

Code	Size	Code	Size	Code	Size
17.321.01	3/8" x 1/4"	17.321.04	1" x 3/4"	17.321.07	2" x 1" 1/2
17.321.02	1/2" x 3/8"	17.321.05	1" 1/4 x 1"	17.321.08	2" 1/2 x 2"
17.321.03	3/4" x 1/2"	17.321.06	1" 1/2 x 1" 1/4	17.321.09	3x2" 1/2

Pipe sleeve

Code	Thread	Length mm	External Ø mm	Code	Thread	Length mm	External Ø mm
17.370.01	3/8"	27	21	17.370.05	1" 1/4	45	48
17.370.02	1/2"	35	28	17.370.06	1" 1/2	47	54
17.370.03	3/4"	35	33	17.370.07	2"	53	67
17.370.04	1"	42	40				

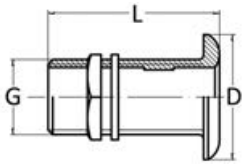
Pipe male cap

Code	Size	Code	Size	Code	Size
17.123.01	3/8"	17.123.04	1"	17.123.07	2"
17.123.02	1/2"	17.123.05	1" 1/4		
17.123.03	3/4"	17.123.06	1" 1/2		

► Brass fittings, skin fittings and valves

All-thread skin fitting, rounded head

Thread	Chromed brass	Yellow brass	L mm	Ø D mm	Ø G mm
3/8"	**17.321.60**	**17.321.80**	55	35	17
1/2"	**17.321.61**	**17.321.81**	65	40	21
3/4"	**17.321.62**	**17.321.82**	70	48	26
1"	**17.321.63**	**17.321.83**	75	55	33
1" 1/4	**17.321.64**	**17.321.84**	85	65	42
1" 1/2	**17.321.65**	**17.321.85**	85	70	48
2"	**17.321.66**	**17.321.86**	100	83	60
2" 1/2	**17.321.67**	**17.321.87**	130	110	75
3"	**17.321.68**	**17.321.88**	155	121	88
4"	**17.321.69**	**17.321.89**	210	150	113



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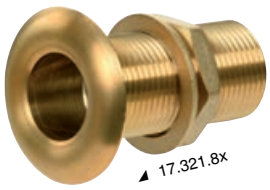
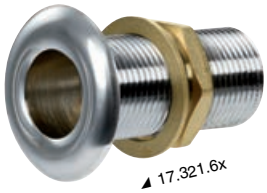
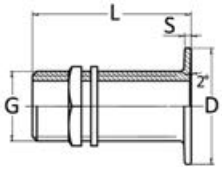

17.321.8x


17.321.6x

All-thread skin fitting, flat head

Thread	Chromed brass	Yellow brass	L mm	Ø D mm	Ø G mm	S mm
3/8"	**17.324.10**	**17.324.00**	55	35	17	5
1/2"	**17.324.11**	**17.324.01**	65	40	21	5
3/4"	**17.324.12**	**17.324.02**	70	48	26	5
1"	**17.324.13**	**17.324.03**	75	55	33	5
1" 1/4	**17.324.14**	**17.324.04**	85	65	42	6
1" 1/2	**17.324.15**	**17.324.05**	85	70	48	5
2"	**17.324.16**	**17.324.06**	100	83	60	8



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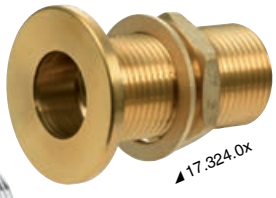
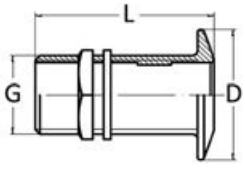

17.324.0x

17.324.1x

All-thread skin fitting, flared head

Thread	Chromed brass	Yellow brass	L mm	Ø D mm	Ø G mm
3/8"	**17.324.40**	**17.324.30**	55	35	17
1/2"	**17.324.41**	**17.324.31**	65	40	21
3/4"	**17.324.42**	**17.324.32**	70	48	26
1"	**17.324.43**	**17.324.33**	75	55	33
1" 1/4	**17.324.44**	**17.324.34**	85	65	42
1" 1/2	**17.324.45**	**17.324.35**	85	70	48
2"	**17.324.46**	**17.324.36**	100	83	60



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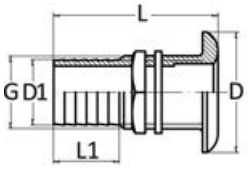
17.324.3x

17.324.4x

Skin fitting with rounded head and hose connector

Thread	Chromed brass	Yellow brass	L mm	L1 mm	Ø D mm	Ø G mm
3/8" x 15	**17.423.00**	**17.323.00**	55	20	35	17
1/2" x 19	**17.423.01**	**17.323.01**	65	25	40	21
3/4" x 25	**17.423.02**	**17.323.02**	65	30	48	26
1" x 30	**17.423.03**	**17.323.03**	70	31	55	33
1" 1/4 x 38	**17.423.04**	**17.323.04**	80	31	65	42
1" 1/2 x 45	**17.423.05**	**17.323.05**	80	31	70	48
2" x 55	**17.423.06**	**17.323.06**	92	31	83	60
2" 1/2 x 70	-	**17.323.07**	130	50	110	75



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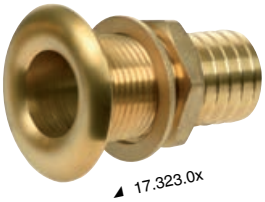
17.323.0x

17.423.0x

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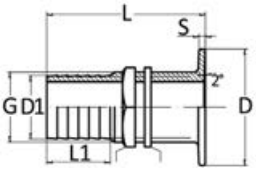


Skin fitting with flat head and hose connector

Thread	Chromed brass	L mm	L1 mm	Ø D mm	Ø G mm	S mm
3/8" x 15	**17.424.00**	55	20	35	17	5
1/2" x 19	**17.424.01**	65	20	40	21	5
3/4" x 25	**17.424.02**	70	25	48	26	5
1" x 30	**17.424.03**	75	25	55	33	5
1" 1/4 x 38	**17.424.04**	85	30	65	42	6
1" 1/2 x 45	**17.424.05**	85	30	70	48	5
2" x 55	**17.424.06**	100	31	83	60	8

Brass washer with ground wire fitting.

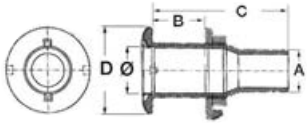
For use with any brass thru-hull fitting.

Code	For thru-hull fittings
17.342.04	1"
17.342.05	1" 1/4
17.342.06	1" 1/2
17.342.07	2"

Check valve

Made of **plastic**, adaptable to **brass and stainless steel** skin fittings.

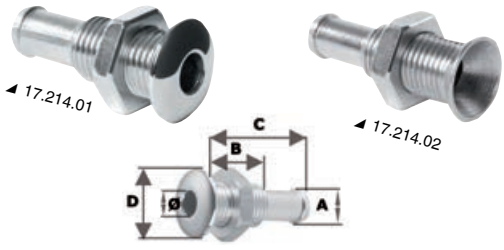
Code	coupled with drain	
	size	type
17.511.03	1"	17.323.03; 17.423.03; 17.321.83; 17.321.63; 17.421.83; 17.422.83
17.511.04	1" 1/2	17.323.05; 17.423.05; 17.321.85; 17.321.65; 17.421.85; 17.422.85



Skin fitting for all types of bilge pumps

Made of **chromed brass**; hose adaptor size 15 mm.

Code	A mm	B mm	C mm	D mm
17.203.80	16	28	70	38



Mini skin fitting

AISI 316 Made of **polished AISI 316 stainless steel**.

Code	Type of head	Size	A mm	B mm	C mm	D mm	Ø mm	Material
17.214.01	convex	1/4" x 13	10	15	38	19.8	7	stainless steel
17.214.02	flush mount	1/4" x 13	10	18.5	42	18	7	stainless steel

Cast brass thru-hull scoop strainer

Code	Size
17.314.00	3/8"
17.314.01	1/2"
17.314.02	3/4"
17.314.03	1"
17.314.04	1" 1/4

Code	Size
17.314.05	1" 1/2
17.314.06	2"
17.314.07	2" 1/2
17.314.08	3"
17.314.09	4"

Galvanized steel tool for quick mounting of brass or stainless steel skin fittings

Code	For drains		
	size	stainless steel	brass
17.421.01	1/2"	17.421../523../524../525../319.30/31	17.323../423../321../324../424..
17.421.02	3/4"	17.421../523../524../525../319.30/31	17.323../423../321../324../424..
17.421.03	1"	17.421../523../524../525../319.30/31	17.323../423../321../324../424..
17.421.04	1" 1/4	17.421../523../524../525../319.30/31	17.323../423../321../324../424..
17.421.05	1" 1/2	17.421../523../524../525../319.30/31	17.323../423../321../324../424..
17.421.06	2"	17.421../523../524../525../319.30/31	17.323../423../321../324../424..

Ball valve full port made of nickel-plated brass, PN25 shut-off full flow

STAINLESS STEEL HANDLE **Long threads as per ISO9093 regulations. Stainless steel handle.**

Code	size	A mm	B mm
17.228.01	3/8"	11	41
17.228.02	1/2"	12	50
17.228.03	3/4"	13	56
17.228.04	1"	14	65
17.228.05	1" 1/4	18	80

Code	size	A mm	B mm
17.228.06	1" 1/2	20	90
17.228.07	2"	23	105
17.228.08	2" 1/2	23	130
17.228.09	3"	28	150
17.228.10	4"	30	180

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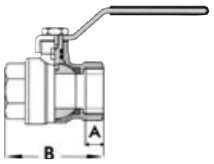
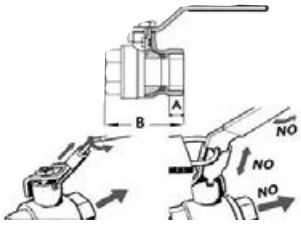


Full passage locking gate valve

Made of chromed brass; **stainless steel handle** with pierced detention for padlocks; comply with waste water drainage ISO 8099 standards.

Code	Thread	A mm	B mm
17.228.55	1" 1/4	18	80
17.228.56	1" 1/2	20	90



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Brass ball valves

Nickel-plated brass diverting valve. Red coated steel lever control.
Operating temperature from -10° to +100°.

Code	Type	With passage	Operation type	Thread
17.229.00	3-way, deviator	Total	L	3/8"
17.229.01	3-way, deviator	Total	L	1/2"
17.229.02	3-way, deviator	Total	L	3/4"
17.229.03	3-way, deviator	Total	L	1"
17.229.04	3-way, deviator	Total	L	1" 1/4
17.229.05	3-way, deviator	Total	L	1" 1/2
17.229.20	3-way	Reduced	T	3/8"
17.229.21	3-way	Reduced	T	1/2"
17.229.22	3-way	Reduced	T	3/4"
17.229.23	3-way	Reduced	T	1"
17.229.24	3-way	Reduced	T	1" 1/4
17.229.25	3-way	Reduced	T	1" 1/2

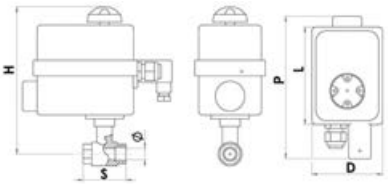
◢ L move

◢ T move

Remote electrocontrolled ball valves PN40

Made of nickel-plated brass, full flow with reversible electric servomotor. Revolution time: 14 seconds. Emergengy manual control in compliance with ISO228.
ON-OFF remote control panel with safety fuse, control of up to 10 valves at the same time.

Valve with control panel	Valve, only	Panel, only	Thread	V	Ø mm	S mm	P mm	H mm	L mm	D mm	Consumption W	Protection degree	⟷ Control panel mm
17.240.02	**17.241.02**	**17.242.00**	1/2"	12/24	15	56	125	162	100	62	4	IP42	75x60
17.240.03	**17.241.03**	**17.242.00**	3/4"	12/24	20	66	125	165	100	62	4	IP42	75x60
17.240.04	**17.241.04**	**17.242.00**	1"	12/24	25	75	125	171	100	62	4	IP42	75x60
17.240.05	**17.241.05**	**17.242.00**	1" 1/4	12/24	32	85	195	181	137	92	15	IP65	75x60
17.240.06	**17.241.06**	**17.242.00**	1" 1/2	12/24	39	97	195	187	137	92	15	IP65	75x60
17.240.07	**17.241.07**	**17.242.00**	2"	12/24	48	109	195	195	137	92	15	IP65	75x60



◢ 17.242.00

◢ 17.241.02/03/04

◢ 17.241.05/06/07

Cast brass male hose connectors

Code	Thread	Hose adaptor Ø mm
17.198.01	1/4"	8
17.198.02	1/4"	10
17.198.38	1/4"	12
17.198.03	1/4"	13
17.198.04	3/8"	10
17.198.40	3/8"	12
17.198.05	3/8"	13
17.198.06	3/8"	15
17.198.39	3/8"	16
17.198.41	3/8"	20
17.198.42	1/2"	12
17.198.07	1/2"	13
17.198.43	1/2"	15
17.198.08	1/2"	16
17.198.49	1/2"	18
17.198.09	1/2"	20
17.198.45	1/2"	25
17.198.32	3/4"	13
17.198.10	3/4"	16
17.198.48	3/4"	18
17.198.11	3/4"	20

Code	Thread	Hose adaptor Ø mm
17.198.12	3/4"	25
17.198.47	3/4"	30
17.198.13	1"	20
17.198.14	1"	25
17.198.15	1"	30
17.198.31	1"	32
17.198.16	1" 1/4	30
17.198.17	1" 1/4	35
17.198.18	1" 1/4	39
17.198.33	1" 1/4	40
17.198.19	1" 1/2	38
17.198.29	1" 1/2	40
17.198.20	1" 1/2	45
17.198.30	1" 1/2	50
17.198.21	2"	50
17.198.22	2"	60
17.198.23	2" 1/2	60
17.198.24	2" 1/2	70
17.198.34	3"	76
17.198.25	3"	80
17.198.26	4"	100

Melt brass female hose connectors

Code	Thread	Hose adaptor Ø mm
17.199.01	1/4"	8
17.199.02	1/4"	10
17.199.03	1/4"	13
17.199.04	3/8"	10
17.199.29	3/8"	12
17.199.05	3/8"	13
17.199.06	3/8"	15
17.199.07	1/2"	13
17.199.08	1/2"	15
17.199.09	1/2"	20
17.199.34	3/4"	16
17.199.10	3/4"	20
17.199.11	3/4"	25

Code	Thread	Hose adaptor Ø mm
17.199.12	1"	25
17.199.13	1"	30
17.199.21	1" 1/4	30
17.199.14	1" 1/4	35
17.199.22	1" 1/4	38
17.199.37	1" 1/2	38
17.199.16	1" 1/2	40
17.199.17	1" 1/2	45
17.199.38	1" 1/2	50
17.199.18	2"	50
17.199.19	2" 1/2	70
17.199.20	3"	80

Brass hose connector, 90° male version

Code	Thread	Ø hose adaptor mm
17.197.00	1/4"	8
17.197.01	1/4"	10
17.197.02	3/8"	15
17.197.03	1/2"	16
17.197.04	1/2"	20
17.197.05	3/4"	20
17.197.06	3/4"	25

Code	Thread	Ø hose adaptor mm
17.197.07	1"	25
17.197.08	1"	30
17.197.09	1" 1/4	38
17.197.10	1" 1/4	40
17.197.11	1" 1/2	38
17.197.13 New	1" 1/2	45

Cross T brass joint (all female outlets)

Code	Size
17.231.00	3/8"
17.231.01	1/2"
17.231.02	3/4"
17.231.03	1"
17.231.04	1" 1/4
17.231.05	1" 1/2

Brass "T" connectors

Code	Size
T-shape version	
17.317.09	1/4"
17.317.00	3/8"
17.317.01	1/2"
17.317.02	3/4"
17.317.03	1"

Code	Size
17.317.04	1" 1/4
17.317.05	1" 1/2
17.317.06	2"
17.317.07	2" 1/2
17.317.08	3"
17.317.10	4"

Code	Size
Reduced T-shape version	
17.317.22	3/4" x 1/2 x 3/4
17.317.23	1" x 3/4 x 1
17.317.24	1" 1/4 x 1 x 1" 1/4
17.317.25	1" 1/2 x 1" 1/4 x 1" 1/2

3-way brass joint

Code	Thread
17.275.02	1/2"
17.275.03	3/4"

Brass joint sleeves

Code	Size	Code	Size
17.270.00	3/8"	17.270.05	1" 1/2
17.270.01	1/2"	17.270.06	2"
17.270.02	3/4"	17.270.07	2" 1/2
17.270.03	1"	17.270.08	3"
17.270.04	1" 1/4	17.270.09	1/4"

Double brass nipples

Code	Size	Code	Size	Code	Size
17.225.09	1/4"	17.225.03	1"	17.225.07	2" 1/2
17.225.00	3/8"	17.225.04	1" 1/4	17.225.08	3"
17.225.01	1/2"	17.225.05	1" 1/2	17.225.10	4"
17.225.02	3/4"	17.225.06	2"		

Double brass nipples (reduced)

Code	Size	Min. order quantity	Code	Size	Min. order quantity	Code	Size	Min. order quantity
17.227.00	1/4" x 3/8	5	17.227.03	3/4" x 1	5	17.227.06	1" 1/2x 2"	-
17.227.01	3/8" x 1/2	5	17.227.04	1" x 1" 1/4	-	17.227.07	2" x 2" 1/2	-
17.227.02	1/2" x 3/4	5	17.227.05	1" 1/4 x 1" 1/2	-	17.227.08	2" 1/2 x 3"	-

Thread plugs, female thread

Code	Size	Code	Size
17.222.00	1/4"	17.222.04	1"
17.222.01	3/8"	17.222.05	1" 1/4
17.222.02	1/2"	17.222.06	1" 1/2
17.222.03	3/4"	17.222.07	2"

Thread plugs, male thread

Code	Size	Code	Size	Code	Size
17.223.00	1/4"	17.223.03	3/4"	17.223.06	1" 1/2
17.223.01	3/8"	17.223.04	1"	17.223.07	2"
17.223.02	1/2"	17.223.05	1" 1/4		

Brass reducing couplings male/female

Code	Thread	Code	Thread	Code	Thread
17.221.00	3/8" male x 1/4" female	17.221.06	2" male x 1" 1/2 female	17.221.15*	1" male x 1/2" female
17.221.01	1/2" male x 3/8" female	17.221.07	2" 1/2 male x 2" female	17.221.16*	1" 1/4 male x 3/4" female
17.221.02	3/4"male x 1/2" female	17.221.08	3" male x 2" 1/2 female	17.221.17*	1" 1/2 male x 1" female
17.221.03	1" male x 3/4" female	17.221.09	4" male x 3" female	17.221.18*	2"male x 1" 1/4 female
17.221.04	1" 1/4 male x 1" female	17.221.13*	1/2" male x 1/4" female	17.221.19*	2" 1/2 male x 1" 1/2 female
17.221.05	1" 1/2 male x 1" 1/4 female	17.221.14*	3/4" male x 3/8" female		

* *Diffference of two sizes*

Male/female sleeve

Code	Male	Female	Code	Male	Female	Code	Male	Female
17.272.00	3/8"	1/2"	17.272.03	3/4"	1/2"	17.272.07	1" 1/4	1" 1/2
17.272.01	1/2"	3/8"	17.272.04	3/4"	1"	17.272.08	1" 1/2	2"
17.272.02	1/2"	3/4"	17.272.06	1"	1" 1/4			

Reduced pipe sleeves female/female

Code	Size	Code	Size
17.271.00	3/8" x 1/2"	17.271.03	1 x 1" 1/4
17.271.01	1/2" x 3/4"	17.271.04	1" 1/4 x 1" 1/2
17.271.02	3/4" x 1"	17.271.05	1" 1/2 x 2"

3 piece connector 90° male/female fitted with sphero-conical seal and o-ring

Code	Size	Code	Size
17.274.00	3/8"	17.274.03	1"
17.274.01	1/2"	17.274.04	1" 1/4
17.274.02	3/4"		

3-piece straight connectors fitted with sleeve, sphero-conical seal and o-ring

Code	Size	Code	Size
17.273.00	3/8"	17.273.03	1"
17.273.01	1/2"	17.273.04	1" 1/4
17.273.02	3/4"	17.273.05	1" 1/2

Brass elbows 45° female/female

Code	Size	Code	Size
17.120.01	1/2"	17.120.04	1" 1/4
17.120.02	3/4"	17.120.05	1" 1/2
17.120.03	1"		

Brass elbows 90° male/female

Code	Size	Code	Size	Code	Size
17.224.09	1/4"	17.224.03	1"	17.224.07	2" 1/2
17.224.00	3/8"	17.224.04	1" 1/4	17.224.08	3"
17.224.01	1/2"	17.224.05	1" 1/2	17.224.10	4"
17.224.02	3/4"	17.224.06	2"		

Brass elbows 90° female/female

Code	Size	Code	Size
17.226.09	1/4"	17.226.04	1" 1/4
17.226.00	3/8"	17.226.05	1" 1/2
17.226.01	1/2"	17.226.06	2"
17.226.02	3/4"	17.226.10	4"
17.226.03	1"		

Brass elbows and reducing couplings female/female

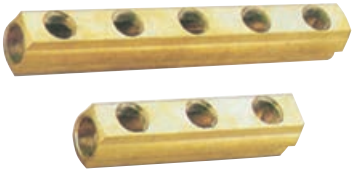
Code	Size	Code	Size
17.230.01	3/8" x 1/2"	17.230.03	3/4 x 1"
17.230.02	1/2" x 3/4"	17.230.04	1" x 1" 1/4

Male/male brass extension sleeve

Code	Thread	Length mm	Code	Thread	Length mm
17.276.02	3/8"	100	17.276.24	1"	60
17.276.04	3/8"	150	17.276.26	1"	100
17.276.06	3/8"	200	17.276.28	1"	150
17.276.08	1/2"	60	17.276.30	1"	200
17.276.10	1/2"	100	17.276.32	1" 1/4	60
17.276.12	1/2"	150	17.276.34	1" 1/4	100
17.276.14	1/2"	200	17.276.36	1" 1/4	150
17.276.16	3/4"	60	17.276.40	1" 1/2	100
17.276.18	3/4"	100	17.276.42	1" 1/2	150
17.276.20	3/4"	150	17.276.44	1" 1/2	200
17.276.22	3/4"	200			

Brass extension male/female

Code	Size	Length mm	Code	Size	Length mm
17.278.04	3/8"	20	17.278.20	3/4"	20
17.278.08	3/8"	40	17.278.24	3/4"	40
17.278.12	1/2"	20	17.278.28	1"	20
17.278.16	1/2"	40	17.278.32	1"	40



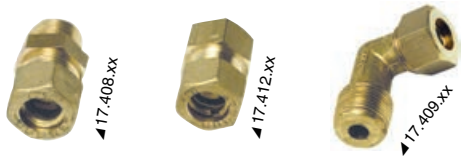
Linear distribution manifolds

Made of brass, centre-to-centre distance of 50 mm

Code	Section		N. exit	⟷ cm	Code	Section		N. exit	⟷ cm
	main line	derivation				main line	derivation		
17.316.03	1"	1/2"	3	15	17.316.22	1" 1/4	1/2"	2	10.5
17.316.04	1"	1/2"	4	25	17.316.23	1" 1/4	1/2"	3	15.5
17.316.05	1"	1/2"	5	25	17.316.24	1" 1/4	1/2"	4	20.5
17.316.06	1"	1/2"	6	30					

Brass compression joints for copper pipe with Biconical Brass seal

90° male	straigh female	straight male	Thread	for pipe Ø mm
17.409.01	**17.412.01**	**17.408.01**	1/4"	8
17.409.02	**17.412.02**	**17.408.02**	1/4"	10
17.409.04	**17.412.04**	**17.408.04**	3/8"	10
17.409.05	**17.412.05**	**17.408.05**	3/8"	12



Brass compression joints for cooper pipe with "0" Ring seal

Compression type on all connections.

T-shape	90° degrees	for pipe Ø mm
17.410.02	**17.410.20**	10
17.410.03	**17.410.21**	12

► Plastic fittings, skin fittings and valves

Skin fitting with polypropylene hose adaptor

Made of **white plastic, fitted with hose adaptor** (in compliance with CE standards only for usage above the waterline)

Code	A mm	B mm (hose adaptor)	C mm	D mm	Size
17.322.01	22	15	75	43	1/2"
17.322.02	26	19	83	51	3/4"
17.322.03	32	25	94	62	1"
17.322.04	48	38	104	78	1" 1/2
17.322.05	41	30	94	67	1" 1/4
17.322.06	56	51	116	74	2"

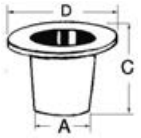
OSCULATI

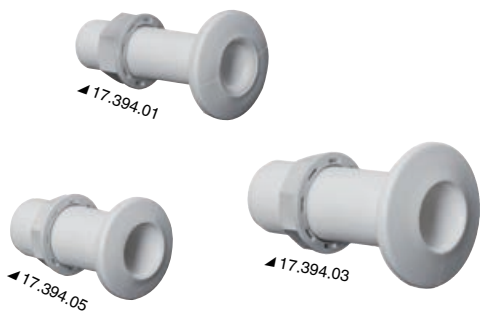
White plastic threaded skin fittings

Fully threaded

Code	A mm	C mm	D mm	Size	ORDER BY BOX
17.394.01	21	70	43	1/2"	10
17.394.02	26	80	51	3/4"	10
17.394.03	33	90	62	1"	10
17.394.04	48	110	78	1" 1/2	10
17.394.05	41	100	67	1" 1/4	10

OSCULATI





90° elbow skin fitting

Made of white plastic, fitted with 90° hose adapter, complies with EC standards only for usage above waterline

Code	Type	Thread Ø mm	Length mm	barbed mm
17.395.01	1"	33	36	19
17.395.00	1"	33	36	25
17.395.20	1" 1/2	47	40	38

OSCULATI

90° elbow skin fitting

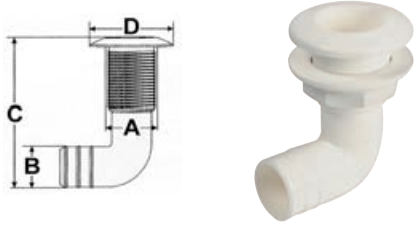
Made of nylon, equipped with fastening ring.

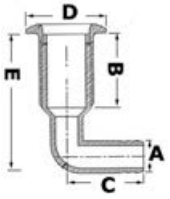
Code	Type	A* mm	A** mm	B mm	C mm	D mm
17.396.02	3/4"	26	27/30	20	84	50
17.396.03	1"	32	33/35	25	93	60
17.396.04	1" 1/2	48	50/51	38	114	72

* *Ø threaded element*

** *Bore Ø on the bulkhead. It depends on the fibreglass thickness*

OSCULATI





90° elbow skin fitting

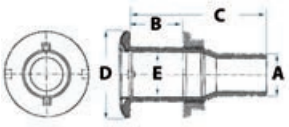
Made of nylon, with mirror-polished **stainless steel** front visible ledge and 90° hose connector.

Code	Type	A mm	B mm	C mm	D mm	E mm
17.328.34	3/4"	20	40	53	45	85
17.328.35	1"	25	28	55	51	94
17.328.36	1" 1/2	38	28	70	70	115

Skin fitting

Made of **white plastic**, fitted with 90° hose adaptor.

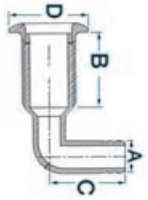
Code	Type	Thread Ø mm	Length mm	barbed mm
17.354.81	1"	33	42	19
17.354.80	1"	33	42	25
17.355.00	1"1/2	47	52	38



Black nylon skin fitting

With mirror polished stainless steel visible front ledge.

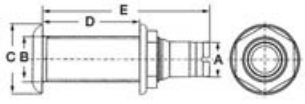
Code	Thread E Ø		Hose adapter A		B mm	C mm	D mm
	mm	inches	mm	inches			
17.327.01	22	7/8"	13	1/2"	32	82.5	38
17.327.02	22	7/8"	16	5/8"	32	82.5	38
17.327.03	33	1"1/4	20	3/4"	32	82.5	51
17.327.04	33	1"1/4	25	1"	32	82.5	51
17.327.05	33	1"1/4	29/32	1"1/4	32	85.5	57.5
17.327.06	57	2"1/4	38	1"1/2	48	111	75
17.327.07	57	2"1/4	51	2"	48	111	75



Skin fitting

White nylon through hull drains with mirror polished stainless steel front visible ledge and 90° hose adaptor

Nylon with stainless steel head	All nylon	Thread	Ø A mm	B mm	C mm	D mm
17.328.02	**17.322.52**	1/2''	16	45	42	37
17.328.03	**17.322.53**	1"	20	44	47	49
17.328.33	**-**	1"	20	28	53	52
17.328.04	**17.322.54**	1"	25	46	47	49
17.328.05	**17.322.55**	1"	29/32	40	70	56
17.328.06	**17.322.56**	2"	38	61	70	74
17.328.07	**17.322.57**	2"	50	61	90	74



Skin fitting

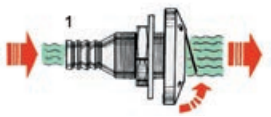
Long model made of nylon/fiberglass.

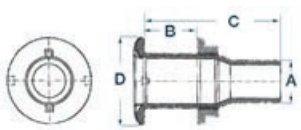
Code	Ø A mm	Thread B	Ø B mm	C mm	D mm	E mm	With check valve
Version with hose connector							
17.319.17	19/20	1" 3/8	35	54	86	144	no
17.319.18	29/32	1" 3/8	35	54	86	152	no
17.319.19	38	2" 1/4	57	73	95	165	no
17.319.22	38	2" 1/4	57	73	95	166	yes
17.319.23	52	2" 1/4	57	73	45	122	yes
SS head version with hose connector							
17.327.14	19/20	1" 3/8	34	58	86	148	no
17.327.15	29/32	1" 3/8	34	58	86	157	no
17.327.16	38	2" 1/4	57	77	95	172	no
17.327.18	38	2" 1/4	57	77	95	172	yes
17.327.19	53	2" 1/4	57	77	46	126	yes
17.319.20	38	1" 1/2	48	78	70	135	yes
SS head version, all threaded							
17.395.45	-	1" 1/2 - 11BSP	48	78	117	135	yes

Skin fitting and scupper

Made of **plastic**, fitted with **check valve**.

Code	Thread	A mm	B mm	C mm	D mm
17.319.00	1" 1/2	38	27	112	81
17.319.11	1" 1/2	-	89	127	81

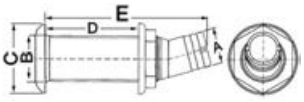




Skin fitting

Fitted with **mirror polished stainless steel** front visible ledge and **polished stainless steel** head.

Code	Ø A mm	Thread B mm	Ø B mm	Ø C mm	D mm	E mm	Check valve
17.331.06	38	2" 1/4	57	76	94	170	yes
17.331.07	50	2" 1/4	57	76	94	170	yes
17.329.06	38	2" 1/4	57	76	94	170	-
17.329.07	50	2" 1/4	57	76	94	170	-



Female/female ball valve

Made of **polypropylene**, fitted with **nylon** internal sphere; sturdy and safe.

Code	Size
17.233.02	1/2"
17.233.03	3/4"
17.233.04	1"

Code	Size
17.233.05	1" 1/4
17.233.06	1" 1/2

Polypropylene hose connector with swivel nut and gasket

Code	Version	Thread	Hose connector Ø mm
17.235.00	at 90°	1/2"	12
17.235.01	at 90°	3/4"	16
17.235.02	at 90°	3/4"	19
17.235.03	at 90°	1"	25
17.235.04	at 90°	1" 1/4	30
17.235.05	at 90°	1" 1/2	38
17.235.99	Straight	3/8"	12
17.236.00	Straight	1/2"	13
17.236.01	Straight	1/2"	16
17.236.21	Straight	3/4"	16
17.236.02	Straight	3/4"	19
17.236.22	Straight	1"	20
17.236.03	Straight	1"	25
17.236.04	Straight	1" 1/4	30
17.236.23	Straight	1"1/4	32
17.236.05	Straight	1" 1/2	38

◀ 17.235.xx

◀ 17.235.99;17.236.xx

90° polypropylene male hose connector

Code	Thread	Hose adaptor Ø mm
17.238.01	3/8"	12
17.238.02	1/2"	16
17.238.03	3/4"	20
17.238.04	3/4"	25
17.238.05	1"	25
17.238.06	1"	30
17.238.07	1" 1/4	32
17.238.08	1" 1/2	38

Black polycarbonate hose adaptors

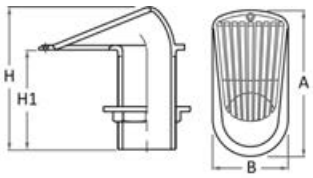
Code	Thread	Ø Hose adaptor mm
17.206.40	1/2"	18
17.206.41	3/4"	23
17.206.42	1"	30
17.206.43	1" 1/4	38
17.206.44	1" 1/2	46

Polypropylene hose adaptors

Code	Thread	Hose connector Ø mm	ORDER BY BOX
17.234.00	3/8"	12	20
17.234.01	3/8"	16	20
17.234.21	1/2"	13	20
17.234.02	1/2"	16	20
17.234.03	1/2"	20	20
17.234.22	3/4"	16	20
17.234.04	3/4"	20	20
17.234.05	3/4"	25	20

Code	Thread	Hose connector Ø mm	ORDER BY BOX
17.234.23	1"	20	10
17.234.06	1"	25	10
17.234.07	1"	30	10
17.234.08	1" 1/4	30	10
17.234.09	1" 1/4	35	10
17.234.24	1" 1/4	38	10
17.234.10	1" 1/2	38	5
17.234.11	1" 1/2	50	5

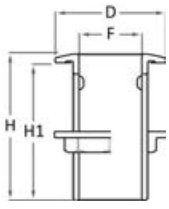
► Bronze fittings, skin fittings and valves



New GUIDI series 2000 bronze thru-hull scoop strainer

BRONZE / BRONZO

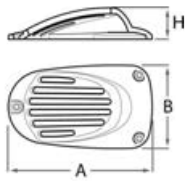
Code	Thread	H mm	H1 mm	A mm	B mm
17.550.01	1/2"	95	75	74	37
17.550.02	3/4"	103	80	81	40
17.550.03	1"	111	85	104	55
17.550.04	1" 1/4"	118	90	118	64
17.550.05	1" 1/2"	129	100	130	71
17.550.06	2"	142	110	154	84



New GUIDI bronze skin fitting

BRONZE / BRONZO

Code	Thread	H mm	H1 mm	D mm	F mm
17.551.01	3/8"	64	60	28	11
17.551.02	1/2"	70	65	40	13
17.551.03	3/4"	75	70	47	19
17.551.04	1"	85	80	57	25
17.551.05	1" 1/4"	91	85	67	32
17.551.06	1" 1/2"	96	90	75	38
17.551.07	2"	107	100	88	50



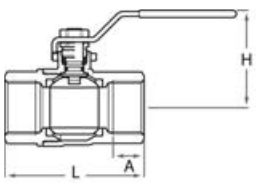
New GUIDI series Manta bronze cap

BRONZE / BRONZO

Code	Thread	A mm	B mm	H mm
17.552.01	1/2"	84	49	20
17.552.02	3/4"	102	57	23
17.552.03	1"	118	68	26

Code	Thread	A mm	B mm	H mm
17.552.04	1" 1/4"	136	79	30
17.552.05	1" 1/2"	154	88	34
17.552.06	2"	180	102	39

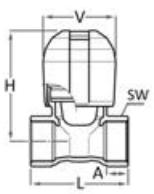
17.551.xx *Matching skin fitting*



New GUIDI bronze F-F ball valve with lever-handle full flow

BRONZE / BRONZO

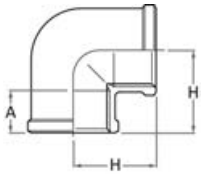
Code	Thread	A mm	L mm	H mm	Flow 1 bar (l/h)
17.557.01	3/8"	11.4	54	48	9000
17.557.02	1/2"	15	65	49	18000
17.557.03	3/4"	16.3	72	56	39000
17.557.04	1"	19.1	86	60	71000
17.557.05	1" 1/4"	21.4	99	72	119000
17.557.06	1" 1/2"	21.4	107	77	196000
17.557.07	2"	25.7	128	88	300000



New GUIDI bronze non-stick valve, series Alex with full flow

BRONZE / BRONZO **PATENT** **NON - STICK**

Code	Thread	A mm	L mm	H mm	V mm	SW mm	Flow 1 bar (l/h)
17.558.03	3/4"	16.3	73	85	58	31	39000
17.558.04	1"	19.1	84	94	63	38	65000
17.558.05	1" 1/4"	21.4	97	110	72	47	110000
17.558.06	1" 1/2"	21.4	103	118	78	54	189000
17.558.07	2"	25.7	124	139	90	67	280000

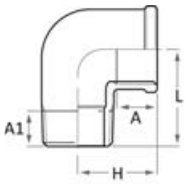


New GUIDI bronze F-F 90° elbow

BRONZE / BRONZO

Code	Thread	A mm	H mm
17.560.01	1/4"	11	19
17.560.02	3/8"	11.4	21
17.560.03	1/2"	15	27
17.560.04	3/4"	16.3	31.5

Code	Thread	A mm	H mm
17.560.05	1"	19.1	37.5
17.560.06	1" 1/4"	21.4	45
17.560.07	1" 1/2"	21.4	48
17.560.08	2"	25.7	59



New GUIDI bronze M-F 90° elbow

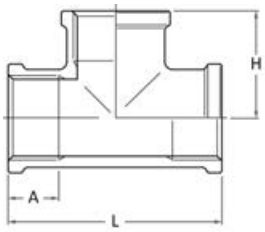
BRONZE / BRONZO

Code	Thread	A1 mm	A mm	H mm	L mm
17.561.01	1/4"	13	11	28	35
17.561.02	3/8"	10.1	11.4	21	28.5
17.561.03	1/2"	13.2	15	27	35
17.561.04	3/4"	14.5	16.3	31.5	39.5
17.561.05	1"	16.8	19.1	37.5	46
17.561.06	1" 1/4"	19.1	21.4	45	54
17.561.07	1" 1/2"	19.1	21.4	48	59
17.561.08	2"	23.4	25.7	59	69

New GUIDI bronze F-F-F T-fitting

BRONZE / BRONZO

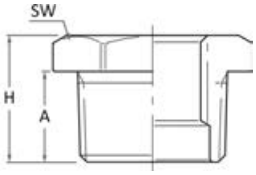
Code	Thread	A mm	H mm	L mm
17.562.01	3/8"	13.5	21	42
17.562.02	1/2"	15	27	54
17.562.03	3/4"	16.3	31.5	63
17.562.04	1"	19.1	37.5	75
17.562.05	1" 1/4"	21.4	45	90
17.562.06	1" 1/2"	21.4	48	96
17.562.07	2"	25.7	59	118



New GUIDI bronze M-F reducer

BRONZE / BRONZO

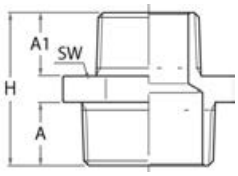
Code	Thread	A mm	H mm	SW mm
17.563.01	3/8" x 1/4"	11.5	17.5	19
17.563.03	1/2" x 3/8"	15	21.5	22
17.563.05	3/4" x 1/2"	16.5	23.5	28
17.563.07	1" x 3/4"	19	26.5	35
17.563.09	1" 1/4" x 1"	21.5	30.5	46
17.563.12	1" 1/2" x 1" 1/4"	21.5	52	52
17.563.13	2" x 1" 1/2"	25.5	52	52



New GUIDI bronze M-M reduced double nipple

BRONZE / BRONZO

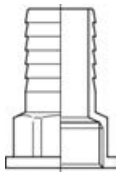
Code	Thread	A mm	A1 mm	H mm	SW mm
17.564.01	3/8" x 1/4"	11.5	11	28.5	19
17.564.02	1/2" x 3/8"	15	11.5	33	22
17.564.03	3/4" x 1/2"	16.5	15	38.5	28
17.564.05	1" 3/4"	19	16.5	43	35
17.564.06	1" 1/4" x 1"	21.5	19	49.5	46
17.564.07	1" 1/2" x 1" 1/4"	21.5	21.5	53	52



New GUIDI bronze female hose connector

BRONZE / BRONZO

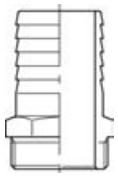
Code	Thread	Hose fitting Ø mm
17.569.02	1/2"	20
17.569.03	3/4"	25
17.569.04	1"	25
17.569.07	1" 1/2"	38



New GUIDI bronze male hose connector

BRONZE / BRONZO

Code	Thread	Hose fitting Ø mm	Code	Thread	Hose fitting Ø mm
17.568.01	1/4"	10	17.568.15	3/4"	25
17.568.02	3/8"	10	17.568.17	1"	25
17.568.03	3/8"	13	17.568.18	1"	30
17.568.07	1/2"	13	17.568.22	1" 1/4"	35
17.568.09	1/2"	16	17.568.23	1" 1/4"	38
17.568.11	1/2"	20	17.568.25	1" 1/2"	38
17.568.12	3/4"	16	17.568.28	1" 1/2"	50
17.568.14	3/4"	20	17.568.29	2"	50

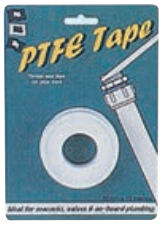


► Hydraulic accessories

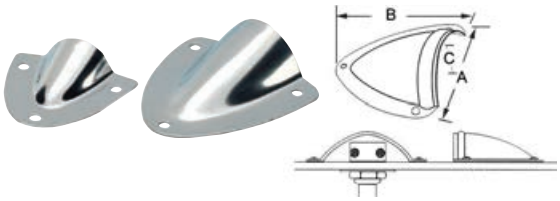
Waterproof tape

Waterproof non-toxic P.T.F.E. (Teflon) tape used to seal threads of hydraulic connectors.

Code	Roll	
	length	width
17.100.00	12 m	12 mm



► Scuppers and cockpit drains made of stainless steel and chromed brass



Protection tabs for skin fittings, petrol vents, water etc

Made of stainless steel.

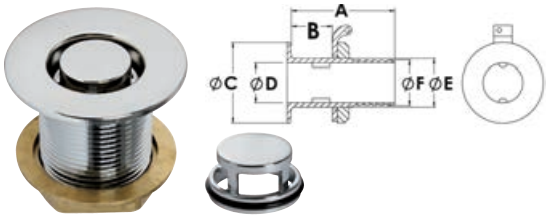
Code	⟷ AxBxC mm
17.213.60	41x44x12 h
17.213.70	57x54x16 h
17.213.75	93x87x25 h

Cockpit drain

AISI 316

Made of mirror-polished AISI316 stainless steel.
Snap upper grid for mounting and hiding the fastening screws.

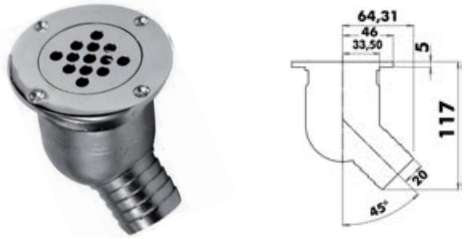
Code	A mm	B x C mm	E mm	D - Inside thread
17.118.49	58	50 x 38	5.3	1"
17.118.50	80	52 x 51	5.5	1" 1/2



Cockpit flush drain

Made of two chromed brass parts. Body and insert that works as a removable filter.

Code	Version	A mm	B mm	Ø C mm	Ø D mm	Ø E	Ø F mm
17.119.32	All thread	80	67	65	33	1" 1/4	-
17.119.33	All thread	80	67	70	39	1" 1/2	-
17.119.42	With hose connector	78	36	65	33	1" 1/4	38
17.119.43	With hose connector	75	33	70	39	1" 1/2	45



45° cockpit drain with check valve

AISI 316

Made of AISI316 stainless steel. Fitted with check system: an inner ball prevents any backflow. Removable grid for cleaning.

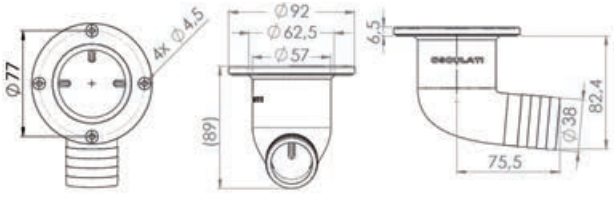
Code	Ø mm	Hose adapter size mm
17.118.01	92	40

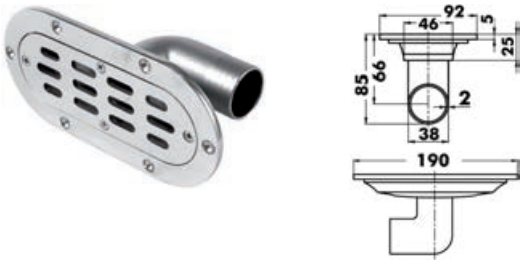
90° cockpit drain with check valve

AISI 316

316 stainless steel, fitted with check valve: an internal ball prevents backflows. Hidden screws.

Code	Ø mm	Hose connector mm
17.118.03	92	38



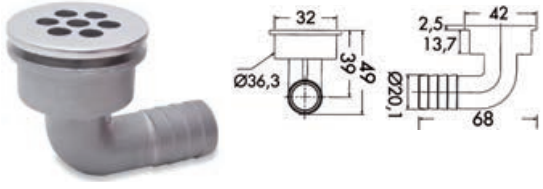


Oval cockpit drain

AISI 316

Made of 316 stainless steel, fitted with removable grid.

Code	⟷ mm	Hose adapter mm
17.118.05	92 x 190	38



Cockpit drain

AISI 316

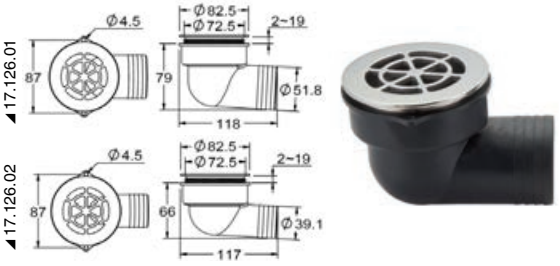
Made of AISI316 stainless steel. The upper part is screwed thus allowing mounting on different gauges.

Code	Fixing hole mm	Hose connector mm	Deck thickness mm	Head Ø mm
17.118.02	32	20	3/11	42

90° cockpit drain with check valve

Body made of reinforced acetyl fibre. Head of AISI316 stainless steel and check flap.

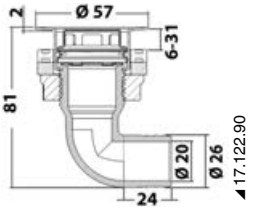
Code	Head Ø mm	Hose fitting mm
17.126.01	87	38
17.126.02	87	51

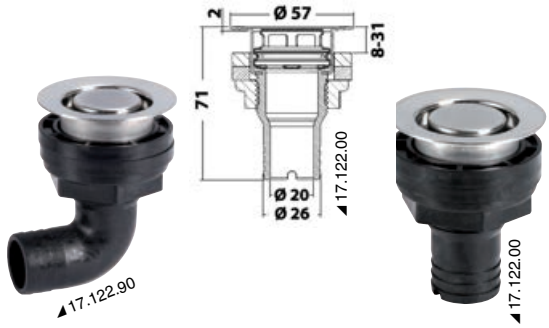


Flush cockpit drain with stainless steel head

Body made of reinforced acetyl fibre. Head of AISI316 stainless steel and removable filter.

Code	Version	Tube Ø mm
17.122.00	straight	26
17.122.90	90°	26

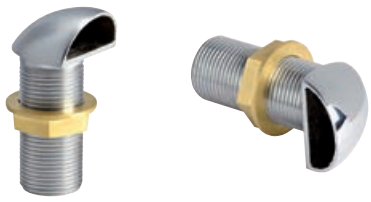




Faired scupper vent

Made of chromed brass. Fully threaded.

Code	Size	Length of threaded neck	⟷ mm
17.333.01	1/2"	65	38x38x18
17.333.02	3/4"	65	44x44x20
17.333.03	1"	75	50x50x23
17.333.04	1" 1/4	79	57x57x27
17.333.05	1" 1/2	83	65x65x31
17.333.06	2"	90	80x80x44



Stainless steel faired scupper vent

AISI 316

Made of precision-cast mirror-polished AISI 316 stainless steel. Fully threaded.

Code	Size	thread length	⟷ mm
17.119.01	1/2"	65	38x38x18
17.119.02	3/4"	65	44x44x20
17.119.03	1"	75	50x50x23
17.119.04	1" 1/4	79	57x57x27
17.119.05	1" 1/2	83	65x65x31
17.119.06	2"	90	80x80x44

► Plastic scuppers and cockpit drains

Flush head cockpit drain fitted with strainer net

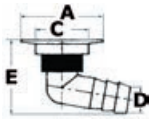
Made of white nylon.

Code	Size	Thread Ø mm	Hose adaptor mm	Length mm
17.395.50	1"1/2	47	32/38	117

Shower/cockpit nylon drainers

Made of white nylon, fitted with filter and 100° elbow

Code	flange Ø (A) mm	Ø application hole (C) mm	Ø Hose adaptor (D) mm	Size max (E) mm
17.399.90	45	25	19	60
17.632.20	70	50	29	80
17.411.80	68	50	38	90



Skin fitting

Fitted with **check valve** made of **white nylon**, large passage flow..

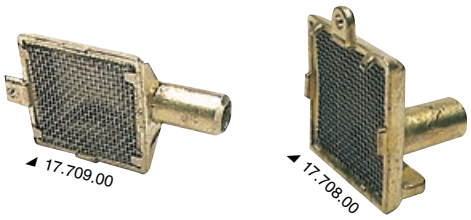
Code	Fits thickness	Net passage	Mounting	Required hole
17.320.50	from mm 30 up to 139	Ø mm 50 equal to 1960 mm^2	pressure mounting	Ø mm 66

Universal adapter for piping

Made of **plastic**, it connects 1"1/2, 1" and 3/4" piping. 20/25/38-mm hose connector. It can be modified by previously cutting the SLEEVE adapter to connect 1" 1/2 fittings.

Code	Description
17.238.50	Adapter
17.238.51	Sleeve

► Suction strainers and drain pipes



Suction strainer

Made of **marine brass**, designed for bilge pumps, fitted dirt-proof **stainless steel** screen; suitable for all self-priming pumps with outlet size 1/2 or 16/19 mm.

Code	Version	Height mm	Out	⟷ mm
17.709.00	Thickening to remain in position without screws	25	horizontal	56x56x96
17.708.00	Transom mounting	-	vertical	base 55x55

Jumbo size suction strainer

Made of brass.

Code	Size mm	Hose adaptor Ø mm
17.709.01	158x71	18

AISI316 suction strainer

Made of **AISI 316 stainless steel**, designed for bilge pump pipes. Fitted with stainless steel dirt-proof screen. Suitable for all bilge pumps with 1/2"(mm 16/18) hose adapter.

Code	Height mm	⟷ mm
17.706.00	21	57x58

Whale

Black plastic suction strainer WHALE

Size 147x56x104 mm, for installation on a vertical descending position from the pipe; fits all hand pumps with mouthpiece size 25/38 mm, fitted with non-return foot valve.

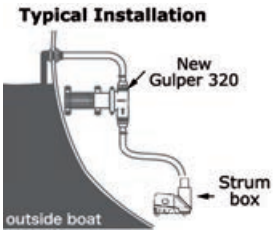
Code	Model	Check valve	⟷ mm
17.711.01	vertical	Included	147x56x104
17.710.01	horizontal	Included	170x120x58

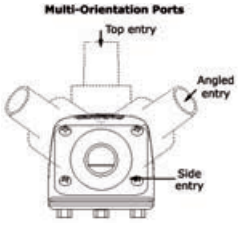
Whale

Whale strainer with new adjustable joint

Fitted with check valve; can be used with hand pumps or electric pumps; ideal for the Gulper 320.

Code	Hose connector mm	Adjustable hose connector	⟷ mm
17.710.19	19	In 4 positions	145x60x52





Semirigid elbow WHALE

Whale

For 90° outlets with Henderson MKV intake or delivery pumps 15.268.01/03/270.00.

Code	Ø mm
17.712.00	38

Y Connection WHALE

Whale

Code	Description
17.714.00	Narrow "Y" joints for 2 connections to **one outlet (skin fitting)** two water output pipes Ø size 38 mm

AISI 316 stainless steel strainer

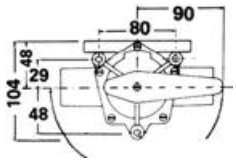
Fitted with back vent and filtering screen. Heavy precision-cast version.

Code	For pipe Ø mm	Pipe version	Base mm	Check valve
17.715.25	25	horizontal	115x100	Included
17.715.38	38	horizontal	115x100	Included
17.716.25	25	vertical	150x70	Included
17.716.38	38	vertical	150x70	Included

3-way WHALE "Henderson" valve

Capable of opening two separate bilges with just one pump (series MKV), even if one of the bilges is dry. It is also suitable for loading water into two separate tanks with just one intake; can be mounted onto the wall or behind the bulkhead.

Code	Hose adaptor Ø mm
17.713.00	38
17.713.01	25



Flush mount filter for bilge pumps and showers

Prevents clogging from hair debris; fitted with clear plastic case for easy inspection; specially suitable for link rod pumps models Par, Fiamma, Flojet, Shurflo ecc.

Code	Hose adaptor size
17.179.12	5/8" (15,8 mm)
17.179.13	3/4" (19 mm)

Nylon cylindrical water hose joints

To get different diameter sizes, see combinations.

Code	Ø mm	Matching couplings*
17.205.12	12	A
17.205.14	14	A
17.205.16	16	A
17.205.18	18	B
17.205.20	20	B

Code	Ø mm	Matching couplings*
17.205.22	22	C
17.205.25	25	C
17.205.30	30	D
17.205.35	35	E

* *Ex. of combination A: 17.205.12; 17.205.14; 17.205.16*

"T" nylon joints for water hoses

Code	Ø mm
17.204.10	10
17.204.12	12
17.204.14	14
17.204.16	16

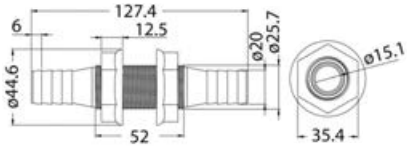
Code	Ø mm
17.204.18	18
17.204.20	20
17.204.22	22
17.204.25	25

"Y" nylon joints for water hoses

Code	Ø mm
17.203.08	8
17.203.10	10
17.203.12	12
17.203.14	14
17.203.16	16

Nylon thru-hull fitting

Code	Hose adaptor Ø mm	Colour
17.237.10	19/20	White



Universal adapter with hose adapter

Code	Ø mm
17.175.38	13/16/19/22/25/28.5/32/38
17.175.60	31/39/45/50/58

T joints made of high strength thermopolymer

Recommended to drain 2 outlets with a sole skin fitting.

Code	Thread F1	Thread F
17.237.50	1/2"	1/2"
17.237.51	3/4"	1/2"
17.237.52	3/4"	3/4"
17.237.53	1"	1"

► Check valves

Check valve for mounting along the fuel piping

Code	For pipe Ø mm
17.731.90	8
17.731.91	10
17.731.92	12

Check valve

Made of polypropylene with internal rubber flapper; hose adapter; multipurpose valve, use to let water flow in just one direction.

Code	Multiple hose adapter mm
17.176.53	13/20/26
17.176.54	25/32/38

Multiple hose connector with check valve

With quick connection system.

Code	Barber mm
17.176.56	13/20/26
17.176.57	25/32/38

Whale®

17.121.50

17.121.90

WHALE in-line check valve

Polypropylene body and nitrile valve. Duckbill valve.

Code	Hose adaptor mm	Version
17.121.50	25/38	Universal
17.121.90	19/25	Universal

Check valves

Made of **brass**, designed for mounting along pipework, prevents the backflow of fluids.

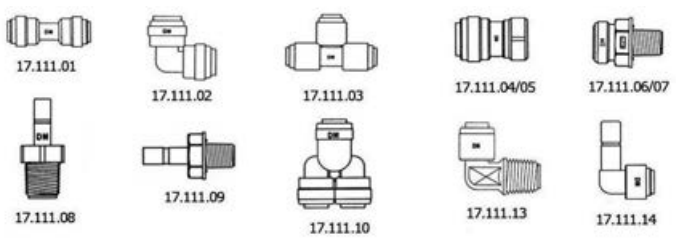
Code	Thread
17.232.02	1/2"
17.232.03	3/4"
17.232.04	1"
17.232.05	1" 1/4
17.232.06	1" 1/2

► Quick couplings for hydraulic systems

KP 12-mm Ø quick couplings for plumbing

Instant snap-in mounting. It requires a simple pressure of the tube and a fastening clip to connect the coupling. Fully re-usable joints made of non-toxic high-resistance food plastic and semi-rigid polyethylene pipe.

Product description	12-mm Ø	ORDER BY BOX
Female/female connecting sleeve	**17.111.01**	10
90° female/female elbow	**17.111.02**	10
90° female tee	**17.111.03**	10
3/8" female + female fitting	**17.111.04**	10
1/2" female + female fitting	**17.111.05**	10
3/8" female + male fitting	**17.111.06**	10
1/2" female + male fitting	**17.111.07**	10
Cylinder joint + 3/8" male joint	**17.111.08**	10
Cylinder joint + 1/2" male joint	**17.111.09**	10
Female Y joint	**17.111.10**	10
In-line joint	**17.111.12**	10
90° female joint with fitting	**17.111.14**	10
90° female joint with 3/8" male joint	**17.111.13**	10
Intermediate lever tap	**17.111.19**	1
Safety clips	**17.111.35**	10



Polyethylene pipe

Very high impact resistance. Excellent resistance to chemical. Outstanding flexibility.

Code	Ø mm	Colour	For water	Pressure bar	Roll m
17.112.25	12	Red	hot	7	100
17.112.26	12	Blue	cold	7	100

Hydrofix plumbing connections, suitable for 70° max temperature

Immediate snap installation. A simple pressure of the hose on the fitting is enough to install it. The fitting is re-usable with replacement of the check ring. Polyamide fittings and polyethylene hoses. RINA type-tested fittings with MAC/119897/1TO/98 certificate.

Product description	15-mm Ø	22-mm Ø
Female/female sleeve	**17.115.01**	**17.117.01**
90° female/female elbow	**17.115.02**	**17.117.02**
90° female T	**17.115.03**	**17.117.03**
1/2" female/female brass joint	**17.115.04**	-
3/8" female/female brass joint	**17.115.26**	-
3/4" female/female brass joint	-	**17.117.04**
3/8" female/male brass joint	**17.115.05**	-
1/2" female/male brass joint	**17.115.06**	-
3/4" female/male brass joint	-	**17.117.06**
1/2" T brass joint for connection to accumulator tanks, boilers, etc.	**17.115.07**	**17.117.17**
3/4" T brass joint for connection to accumulator tanks, boilers, etc.	-	**17.117.18**
1/2" female/female brass elbow	**17.115.24**	-
3/4" female/female brass elbow	-	**17.117.24**
1/2" female/male brass elbow	**17.115.25**	-
3/4" female/male brass elbow	-	**17.117.25**
22x15-mm male/female reduction	-	**17.117.29**
22x15x22-mm reduced T	-	**17.117.31**
Male/female manifold with two 22x15x15x22 derivations, openable at the end	-	**17.117.33**
Male/female manifold with three 22x15x15x22 derivations, openable at the end	-	**17.117.35**
22x22x15-mm reduced T	-	**17.117.37**
Bush to fit into the tube, **NECESSARI to censure seal** (Ø15 = technopolymer; Ø22 = stainless steel)	**17.115.11**	**17.117.40**
Stainless steel check ring, to be replaced in case the joint is re-used	**17.115.15**	**17.117.41**
Spare threaded ring nut	**17.115.16**	**17.117.42**
Spare silicone O-ring	**17.115.17**	**17.117.43**
Spare plastic washer	**17.115.18**	**17.117.44**
150-mm Ø curve with fastening screw	**17.115.19**	**17.117.45**
Shut-off valve	**17.115.20**	-

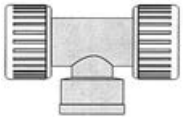
◢ 17.115.01/ 17.117.01

◢ 17.115.02/ 17.117.02

◢ 17.115.20

◢ 17.115.05/06 - 17.117.06

◢ 17.115.03/17.117.03

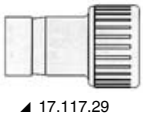


◢ 17.115.07 - 17.117.17/18

◢ 17.115.25/ 17.117.25

◢ 17.117.31

◢ 17.115.04/26 - 17.117.04



◢ 17.117.29

◢ 17.115.24/ 17.117.24

◢ 17.115.11/ 17.117.40

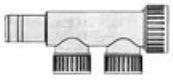
◢ 17.115.18/ 17.117.44

◢ 17.115.17/ 17.117.43

◢ 17.115.19/17.117.45

◢ 17.115.15/ 17.117.41

◢ 17.115.16/ 17.117.42



◢ 17.117.33

◢ 17.117.35

◢ 17.117.37

Polyethylene tube

Very high impact resistance. Excellent resistance to chemical. Outstanding flexibility.
Bend radius min. 120 mm.

Blue	Red	Ø mm	Pressure bar	Roll m
17.115.09	**17.115.10**	15	7	100
17.117.09	**17.117.10**	22	7.5	50

Pipe cutter

Suitable for semirigid pipes size 12/15/22 mm.

Code	For pipes
17.117.50	**17.112.25; 17.112.26; 17.115.09; 17.115.10; 17.117.09; 17.117.10; 17.815.52; 17.815.54**

► 15-mm Ø quick-release couplings for WHALE hydraulic systems

Main features: exclusive "double seam" design that ensures a secure coupling even under sudden pressure changes, fitted with coupling close to the pipe elbows; does not require a safety clip, thus saveing costs and installation time; pipe control marking to ensure a correct coupling; easy to use, does not require expert users for the installation; can be fixed and released without tools or replacement parts; maximum pressure at 20° 12 BAR / maximum pressure at 65° 6 BAR. **Suitable for 15-mm Ø pipes.**

WHALE T-joint

17.815.02

WHALE elbow

17.815.03

WHALE straight fitting

17.815.04

WHALE BSP 1/2" male adapter

17.815.14

WHALE T-fitting

17.815.21 This joint coupled together can turn into a clarinet with adjustable outflow.

WHALE fused elbow

17.815.22

WHALE BSP 1/2" male adapter

17.815.32

WHALE BSP 1/2" female adapter (brass)

17.815.33

WHALE shut-off valve (brass)

17.815.75

WHALE fuse mounting syustem to ice maker (brass)

17.815.77

WHALE 3/8" BSP male adapter

17.815.83

WHALE adaptor size 3/8 BSP female (plastic)

17.815.39

WHALE adaptor size 3/4" BSP female

17.815.40

WHALE cylindrical joint + male ½ BSP

17.815.87

WHALE Cylindrical joint for 12-mm hose

17.815.84

WHALE cylindrical joint for flexible pipe size 16 mm

17.815.97

WHALE cylindrical joint for flexible pipe size 20 mm

17.815.93

WHALE cylindrical elbow joint for flexible pipe size 20 mm

17.815.92

WHALE shut-off valve

17.815.74

WHALE elbow with thread size ½ BSP female

17.815.31

WHALE brass plug

17.815.08

WHALE plug

17.815.46

WHALE check valve

17.815.82

WHALE cold water pipe

Code	Pipe size mm	Color	Reels of m
17.815.52	15	Blue	50

WHALE hot water pipe

Code	Pipe size mm	Color	Reels of m
17.815.54	15	Red	50

Stainless steel braided pipe suitable for water heating connections

Code	Length cm	Thread	
		number/version	treads
50.289.56	45	1 (male) + 1 (female)	1/2"

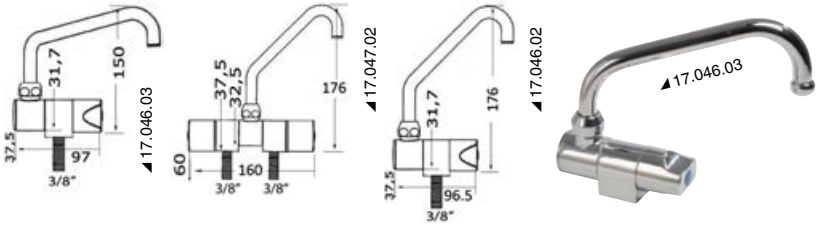
► Swivelling and foldable taps

Slide series

OSCULATI

Made of chromed brass. It can be mounted inside the sink for a flat design countertop.

Code	Function	Knob	Hose connector
17.046.02	Cold water	Italy	3/8" male
17.046.03	Cold water	Italy	3/8" male
17.047.02	Hot + cold water	Italy	2 x 3/8" male

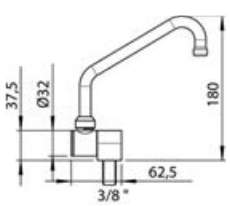


Folding spout with flow restrictor

OSCULATI

Rotating and folding chromed brass spout. It can be mounted inside the sink for a flat design countertop.

Code	Function	Knob	Hose adaptor
17.046.40	Cold water	No	3/8" male

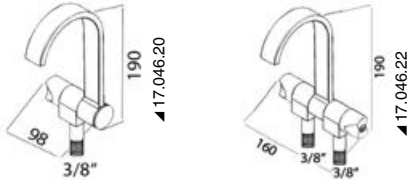


Style series

OSCULATI

Made of chromed brass. It can be mounted inside the sink for a flat design countertop.

Code	Function	Knob	Hose connector
17.046.20	Cold water	Italy	3/8" male
17.046.22	Hot + cold water	Italy	2 x 3/8" male

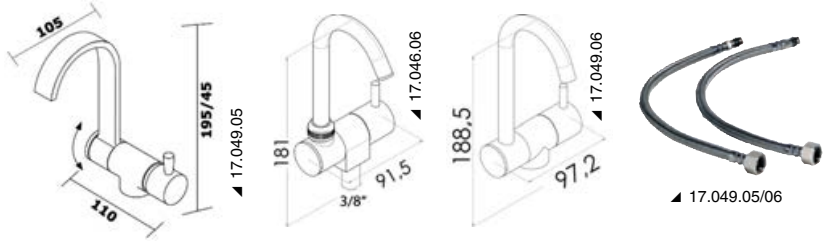


Slim series

OSCULATI

Made of chromed brass. It can be mounted inside the sink for a flat design countertop.

Code	Function	Knob	Mixer	Hose connector
17.046.06	Cold water	Slim	-	3/8" male
17.049.06	Hot/cold water mixer	Slim	Ceramic	-
17.049.05	Hot/cold water mixer	Slim	Ceramic	-

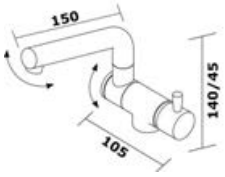


Wheel double-connection series

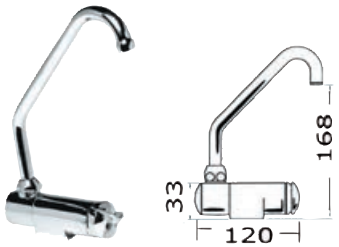
OSCULATI

Made of chromed brass. It can be mounted inside the sink for a flat design countertop.

Code	Function	Knob	Mixer
17.049.10	Hot/cold water mixer	Slim	Ceramic



OSCULATI



Star series tap

Made of chromed brass. It can be mounted inside the sink for a flat design countertop.

Code	Function	Knob	Mixer
17.049.00	Hot/cold water mixer	Star	Ceramic

Shower series

Ideal for indoor/outdoor showers, fitted with 3 x lower connection hoses made of stainless steel sheath.

Code	Function	Handle	Base Ø mm	Overhang mm	Mounting neck
17.051.00	Hot/cold water mixer	T	42	45	32-mm Ø + 37-mm long
17.051.01	Hot/cold water mixer	Oval	42	45	32-mm Ø + 37-mm long
17.052.01	Cold water only	Oval	42	45	32-mm Ø + 37-mm long
17.051.06	Hot/cold water mixer	Slim	42	45	32-mm Ø + 37-mm long

► Taps and showers

Swivelling spout taps made in chromed brass

Code	Type	height mm
17.935.00	cold/hot	210
17.940.00	cold	210

Optional 3/8" hose connector (see 17.199.XX)

Spout for sinks

Code	Description
17.288.80	Telescopic spout made of aluminium and nylon for sinks, etc.
17.300.00	chromed brass swivelling spout for sinks. Height mm 140, radius mm 150, hose adaptor mm 15

Tap for sinks

Code	Description
17.288.90	Telescopic swiveling faucet for sinks, chromed brass. Fast locking tap. Nut and lock nut mounting. Hose connector Ø 15 mm, hight 235 mm

Whale®

17.030.03/00

17.030.04

WHALE Elegance shower taps

For installation in narrow spaces. 1/2" inlet. These 1.7-m hose pull-out taps allow the installation of a functional and nice shower even in narrow spaces. Easy installation. 1/2" couplings.

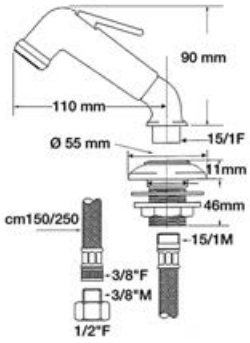
Code	Type	Version	Base mm	Wall bracket OPTIONAL	Spare shower head
17.030.03	long pull-out neck	cold	115x55	**17.030.12**	**17.030.99**
17.030.04	long pull-out neck	hot/cold	171x62	**17.030.12**	**17.030.99**
17.030.00	short neck	cold	113x55	-	-
17.030.01	short neck	hot/cold	164x55	-	-

17.030.98 *White upgrade kit for sink and shower taps.*

Shower taps

Made of **white ABS**, fitted with **chromed brass** 45° bend, **chromed brass and nylon** base sunk bracket and white **polyester** reinforced hose. The water comes out by pushing the spring button; continuous jet flow by lifting the button without holding down the button. Ideal for **small** boats or for **external sinks**.

Code	With pipe m	Terminal
17.258.01	1.50	3/8" F
17.258.02	2.50	3/8" F



Mixer tap "hot/cold water" with shower tap

Made of **chromed brass, fitted with removable shower**, swivelling with variable jet; stylish modern line with white shower; fine finish.

Code	Overhang mm	Height mm	Shower hose size m
17.336.00	180	150	1.50

Single-outlet mixer

Made of chromed brass. Fitted with swivelling spout and hot/cold water mixer.

Code	Vertical size mm	Arm mm
17.335.00	200	160

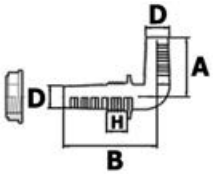
Shower heads, shower rails and accessories

Made of chromed brass. It comes with all the accessories needed for installation.

Code	Model	Rail height cm	Hose length cm	Finish	Soap holder	Shower head Ø mm
17.669.00	WASH	60	150	chromed	yes	83
17.669.05	YUMA	60	150	chromed	yes	-

High strength thermopolymer bulkhead

Code	A mm	B mm	H mm	Thread	Hose adaptor D mm
17.237.01	45	77	22	1/2"	11/13
17.237.02	49	84	22	1/2"	15/17
17.237.03	69	107	23	3/4"	20/22
17.237.04	69	107	23	1"	26/29



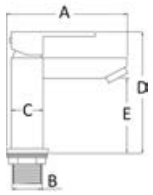
Wall swivelling support

Code	For shower	Material
17.019.02	**17.019.00**	ABS chromed

3/8" to 1/2" adaptors for shower hoses

Code	⟷	For shower
15.252.00	da 3/8" a 1/2"	**15.242.00; 15.242.01; 15.244.00; 15.244.01; 15.254.01; 15.256.00; 15.256.01; 15.251.00; 15.240.01; 15.240.02; 15.240.20; 15.240.21; 15.240.30; 15.240.31; 15.240.33; 15.240.34**

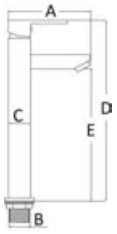
Square short mixer for toilet sink



Square series ceramic mixer. Made of chromed brass with ceramic cartridge.

Code	A mm	B mm	C mm	D mm	E mm
17.004.01	145	M32x1,5	35	178	132

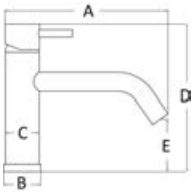
Square tall mixer for toilet sink (for projecting sinks)



Square series ceramic mixer. Made of chromed brass and fit with ceramic cartridge.

Code	A mm	B mm	C mm	D mm	E mm
17.004.02	126	M32x1,5	35	278	200

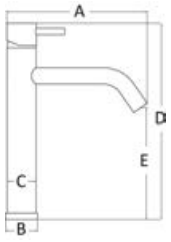
Jessy mixer with ceramic cartridge for washbasins



Chromed brass mixer.

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.003.00	140	35	32	140	50

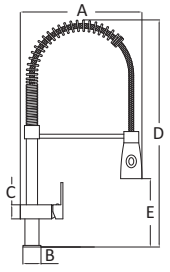
Jessy mixer with ceramic cartridge for washbasins, tall version



Chromed brass mixer for application on top-mount washbasins.

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.003.01	140	35	32	215	122

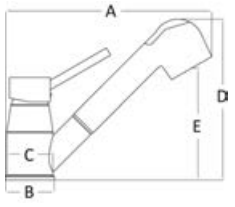
Square spray mixer for kitchen



Square series ceramic mixer. Made of chromed brass and fit with ceramic cartridge.

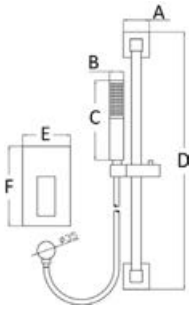
Code	A mm	B mm	C mm	D mm	E mm
17.004.04	310	45	35	560	170

Diana swivelling mixer with ceramic cartridge and removable two-jet shower



Chromed brass mixer. With 150-cm hose.

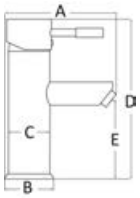
Code	A mm	B mm	C mm	D mm	E mm
17.006.00	220	52	50	180	120



Square shower rail (single-control rail)

Square series ceramic mixer. Made of chromed brass and fit with ceramic cartridge.

Code	A mm	B mm	C mm	D mm	E mm	F mm
17.004.06	50	35	200	650	120	200

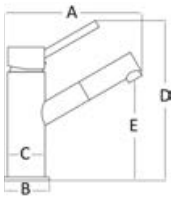


Diana mixer with ceramic cartridge for toilet sinks.

Chromed brass mixer.

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.009.01	145	55	45	190	85

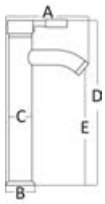
Diana mixer with ceramic cartridge



For toilet sinks. Chromed brass mixer.

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.007.00	165	55	45	180	90

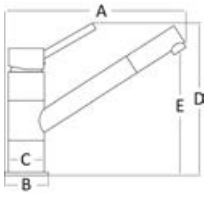
Diana sink mixer with ceramic cartridge for high column toilet sinks



Chromed brass mixer. Suitable for projecting sinks on flat surfaces.

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.009.00	145	52	45	300	205

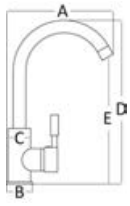
Diana swivelling mixer with ceramic cartridge



Chromed brass mixer. Adjustable jet and long neck, suitable for kitchen sinks

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.005.00	225	55	45	180	125

Ceramic Swivelling mixer unit for kitchen sinks



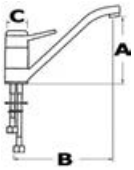
Taps in chromed brass.

Code	A mm	Ø B mm	Ø C mm	D mm	E mm
17.008.00	205	47	41	350	250

Olivia mixer

Single-control mixer with ceramic valve and swivelling spout.

Code	A mm	B mm	C mm	Suitable for
17.017.00	120	220	40	kitchen sinks
17.018.00	80	170	40	bath roomd



◢ 17.017.00

◢ 17.018.00

Olivia single-control combined mixer + removable shower

Fitted with flexible hose size 120 cm; **double jet**: shower tap.

Code	A mm	C mm	Suitable for
17.019.00	120	40	kitchen/bathrooms

Olivia single-control chromed mixer + removable chromed shower

Flexible **chromed brass** hose size 1,2 metres; shower fitted with double jet for sink/shower use.

Code	Mixer Ø mm	Total height mm	Shower mm	Size mm
17.016.00	40	110	160	175

Olivia built-in mixer

Made of chromed brass, designed for bulkhead mounting.

Code	Neck Ø mm	Suitable for	Treads	Inner size mm
17.014.00	42	shower	1/2" F	72

Olivia single-control mixer

Code	Material	Suitable for	Ø mm	Height mm
17.015.00	chromed brass	showers	45	110

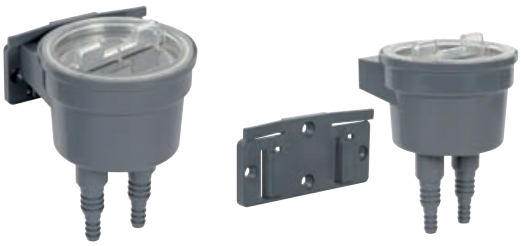
Push button tap

Made of brass.

Code	Thread
17.400.03	3/8"

► Engine raw water strainers

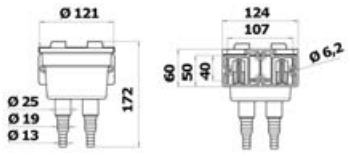
OSCULATI



Aquanet cooling water filter

Technopolymer case with transparent screw cap. **Stainless steel** pull-out filtering unit. With snap support for easy removal.

Code	Flow l/min	Hose connector	⟷ mm
17.652.08	150	13 mm (1/2") - 19 mm (3/4") - 25 mm (1")	Ø 121 x 172 h

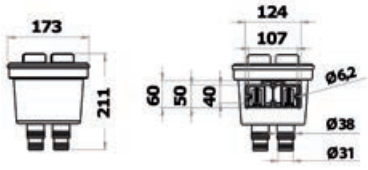


OSCULATI

Aquanet XL cooling water strainer

Technopolymer body with transparent screw cap. Removable stainless steel filtering element. The filter is fit with a snap support for easy removal.

Code	Flow l/min	Hose connector	⟷ mm
17.652.10	300	1"1/4 - 1"1/2 (31/38 mm)	173 Ø x 211 h

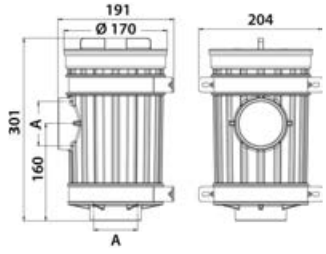


OSCULATI

PLUS Aquanet cooling water strainer

Technopolymer body and clear polycarbonate screw plug. Stainless steel pull-out filtering element. Rotating stainless steel brackets for bulkhead mounting.

Code	Max flow l/min	Hose adaptor A	⟷ mm
17.647.01	200	1" 1/2	301x191
17.647.02	350	2"	301x191
17.647.03	550	2" 1/2	301x191

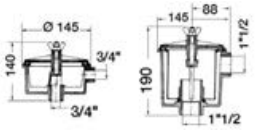


Utility water filter

OSCULATI

Air filter water separator, made of **black Moplen** with Makralon transparent cover and nylon capillary filter; for mounting on engine intakes, made in accordance with **RINA** standards; easy inspection.

Code	Passage l/min	thread
17.652.01	150	3/4"
17.652.02	300	1"1/2



Chromed brass water filters for engine cooling

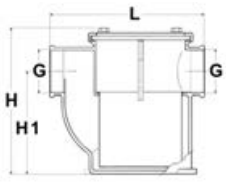
Made of **chromed brass**, fitted with **stainless steel** washable internal net and cover with clear **polycarbonate** glass; swivelling **stainless steel** bearing band; specially suited for power generators, cover with octagonal winch key.

Code	Body Ø mm	Height mm	Threaded holes size
17.649.02	75	100	1/2"
17.649.03	75	100	3/4"

Special water cooling filters

Made of **nickel plated brass** and polycarbonate disc. To be fitted onto the motor water intake. Easy to inspect. Made in compliance with **RINA** standards, 11/447/88 DIP certification.

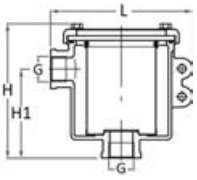
Code	Ø opening G mm	⟷ mm			Flow l/h		⟷ mm
		L	H	H1	0.1 bar	1 bar	
17.654.00	3/8"	122	117	82	1400	4300	140 h. x 110 Ø
17.654.01	1/2"	122	117	82	2400	7500	140 h. x 110 Ø
17.654.02	3/4"	169	151	106	3800	12000	160 h. x 146 Ø
17.654.03	1"	169	151	106	5700	17900	160 h. x 146 Ø
17.654.04	1" 1/4	184	176	122	8800	27700	215 h. x 170 Ø
17.654.05	1" 1/2	202	193	135	12800	40600	215 h. x 170 Ø
17.654.06	2"	242	216	149	19900	63000	235 h. x 188 Ø
17.654.07	2" 1/2	260	284	210	33900	107300	280 h. x 230 Ø
17.654.08	3"	309	292	205	50000	166730	315 h. x 230 Ø
17.654.09	4"	340	355	256	103000	326000	410 h. x 220 Ø



New GUIDI series Ionio water strainer

Made of nickel-plated bronze with polycarbonate cover. Cup model fitted with side outlet and one on the bottom. Strainer made of AISI316 stainless steel and neoprene seals.

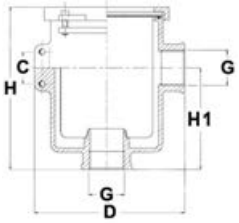
Code	Outlet Ø G	L mm	H mm	H1 mm	Flow l/h	
					0.1 bar	1 bar
17.648.01	3/4"	151	145	94	4650	14900
17.648.02	1"	151	145	94	7950	25500
17.648.03	1" 1/4"	167	168	106	12100	38200
17.648.04	1" 1/2"	180	178	111	19100	61250
17.648.05	2"	213	215	135	30000	96200



Bronze water filter for engine cooling

Made of brass, fitted with **stainless steel** filtering element, "cup" model with an outlet on the side and one on the bottom. **It complies with RINA standards, certification DIP 801/98**

Code	Ø opening G	⟷ mm				Flow l/h	
		H	H1	D	C	0.1 bar	1 bar
17.651.02	3/4"	128	87	150	30	4000	13500
17.651.03	1"	128	87	150	30	5000	16800



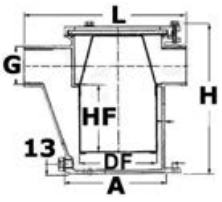
Water cooling engine filters

OSCULATI

AISI 316

Made of **AISI316 stainless steel**. Inspection cover made of **clear material**. **Complying with R.I.N.A standards.**

Code	Ø opening G	⟷ mm				
		L	A	DF	HF	H
17.653.02	3/4"	180	123	86	70	142
17.653.03	1"	180	123	86	70	142
17.653.04	1" 1/4	200	143	105	100	200
17.653.05	1" 1/2	200	143	105	100	200
17.653.06	2"	200	160	125	115	220



► Taps, deviators and bulkhead pass-through for fuel

Fuel connection

It enables the fuel to flow throug the tank-cockpit bulkhead.

Code	Hose connector mm	Material
17.301.01	10	Brass

Hose-to-hose fuel tap

Ball bearing mechanism with nylon lever.

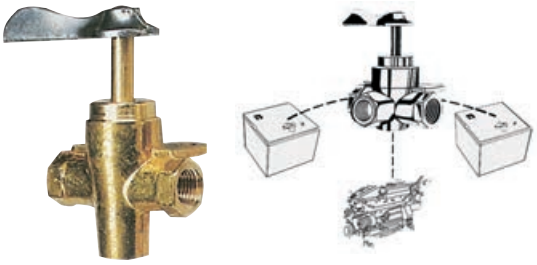
Code	Material	Nett flow mm	Included
17.404.00	chromed brass	8	2 brass barber 1/4"x10 mm

Fuel tap

Sphere movement, **RINA** type-approved; **remote control** bracket. Supplied with wall supports and two hose adaptors size 1/4"x10 mm, the bracket can be mounted along the piping or without a bracket it can be mounted directly onto the tank.

Code	Material	Internal flow mm	Included
17.405.00	chromed brass	8	2 brass barber 1/4"x10 mm

17.450.90 *Control cable*



3-way fuel valve

Fitted with **two-hole flange** for mounting, suitable for connecting two tanks into a single pipe.

Code	Material	Thread	Hose adaptor	
17.302.03	casted brass	1/4" NPT	**17.198.02**	10
17.305.03	casted brass	3/8" NPT	**17.305.04**	12/15

Fuel shut-off valve, fitted with 180° spring swivelling lever

Code	works with	Material	Tread
17.400.00	17.450.90 cable	brass	3/8"
17.400.01	17.450.90 cable	brass	1/2"

OSCULATI

17.303.03/04

17.303.51/52

Fuel tap with housing

3-way fuel valve to connect 2 tanks to one engine. Three positions: tank 1 / tank 2 / closed

Code	Housing type	Thread	External Ø mm	Bore Ø mm	Rear overhang mm
17.303.03	New Edge	1/4"	87x94	69	95
17.303.04	New Edge	3/8"	87x94	69	95
17.303.51*	Classic EVO	1/4"	95x95	69	95
17.303.52*	Classic EVO	3/8"	95x95	69	95

* *Classic EVO housing with new improved closing system*

17.303.03/04

17.303.51/52

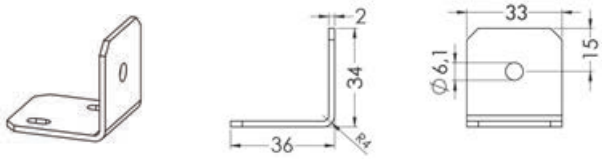
Remote flexible control

Designed to control the starter, to close the petrol taps and operate the fire extinguishers. Eltex sheath, 316 stainless steel 5.5-mm internal thread, 1.5-mm Ø, brass terminals. Equipped with a special self-tapping terminal that enables to cut the flexible pipe as required and then join it with the terminal.

Code	Length m
17.450.90	6
17.450.91	10

Bracket for flexible remote control 17.450.90/91

17.450.30 Made of stainless steel, with oval bores.



White ABS compartment

Suitable for housing flexible controls 17.450.90/91 or similar types for emergency cutouts or for activating fire extinguishers.

Code	Housing type	Version	external Ø mm	hole Ø mm
17.452.93	New Edge	With Fire Extinguisher graphic	87x94	69
17.452.94	New Edge	Fuel Stop printed on cover	87x94	69
17.452.55*	Classic EVO	With Fire Extinguisher graphic	95	69
17.452.56*	Classic EVO	Fuel Stop printed on cover	95	69

* *Classic EVO housing: with new improved closing system.*

Flush-mount compartment

To house flexible control 17.450.90. To intercept the emergency control.

Code	Version	Material	To be matched to cable	External Ø mm	Hole Ø mm
17.450.95	FUEL STOP writing	white ABS	17.450.90	89	65
17.450.96	FIRE EXTINGUISHER writing	white ABS	17.450.90	89	65

► Fire ports

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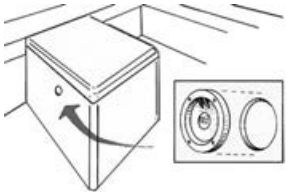
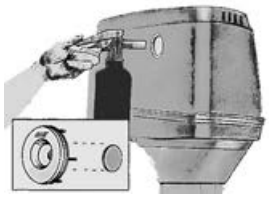
Fire Ports

Made in accordance with Directive 2013/53/UE in compliance with ISO 9094-2 standards.
Designed to access the engine box with an extinguisher without opening the box. Hole closed with a watertight PVC breakable flap.

Code	External Ø mm	Hole mm	Mounting nut
17.680.00	68	45	white plastic
17.680.01	68	45	polished stainless steel





◢ 17.680.00

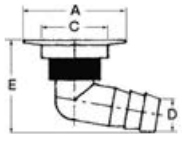
◢ 17.680.01

Fire Port with hose adaptor

For wall or floor mounting. It can be connected to the engine box or tank room with a pipe. It activates by applying pressure to the PVC diaphragm.; it can be refitted without spare parts after use.

Code	Version	⟷ mm			
		A	C	D Ø hose adaptor	E
17.681.01	elbow 90°	70	50	38	80
17.681.02	straight	70	50	32/38	120 (pipe 32 mm) - 90 (pipe 38 mm)

◢ 17.681.01



◢ 17.681.02

► Electrovalves

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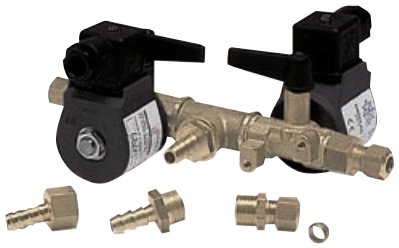
Electrovalve

Made in compliance with Directive EMC 2014/30/EU (EN 6100-6-3:2007+A1:2011). It enables the electrically-operated control to intercept fuel delivery from a remote position. Also fitted with manual control.
Supplied with nipples for 8/10-mm rubber hose, 10-mm fitting for rubber hose and mounting plate with bolts.

Code	Material	Power V	Max Flow l/h	Constant flow l/h
17.403.00	brass	12	200	100
17.403.01	brass	24	200	100

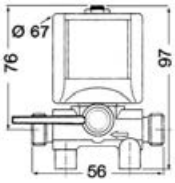


Double electro-valve

Fitted with remote control and manual control on taps to connect two tanks to a motor. It includes a hose adaptor and nipples for 8/10-mm copper pipe to connect the tap to the tanks. Also suitable as fuel shut-off valve made in compliance with EC standards.

Code	Voltage V	Max operating temperature
17.406.00	12	85°

OSCULATI



Electro-valve for fuel

For remote intercepting of fuel distribution with electric controls, equipped with emergency manual control.

Code	Material	Power V	Max flow litre/hour	At constant pressure l/h	Hose connector	
17.401.12	brass	12	800	400	1/2"	570
17.401.24	brass	24	800	400	1/2"	570

OSCULATI

CE

PAOMAR electro-valve

Made according to directive 2013/53/EU (ISO 8846 MARINE - EN 28846) for fuel shut-off PAOMAR, **patented**.

Technical specifications:
1)Remote electric control with emergency manual handle.
2) Actual capacity of **600/hour** at 0.2 bar, suitable for any type of engine (even low displacement engines during acceleration require 3 or 4 times as much fuel of what is normally required for standard operation). 3) Control mechanism **not in contact** with fuel. 100% watertight, even after many years of operation (no O-rings, no sliding parts). 4) Fitted with new universal 12-24 volt connector with current saving electronic circuit. 5) LED operation indicator. 6)Protection against polarity inversion. 7) Electronic circuit with buffer impulse which ensures activation in case of the electro-valve unwanted release. 8) Suitable for many type of connectors, stainless steel mounting bracket included for installation in several positions.

Code	Volt	Copper tube fittings 8x10 mm	Copper tube fittings 10x12 mm	Rubber tube fittings 10x21 mm
17.402.12	12	**17.408.04**	**17.402.51**	**17.402.60**
17.402.24	24	**17.408.04**	**17.402.51**	**17.402.60**

► Petrol and diesel fuel filters

Plastic transparent filters

Suitable for petrol or diesel fuel

Code	Type	Max Flow litre/h	Hose Adaptor mm
17.658.00	small	50	6 - 8
17.658.01	big	150	8 - 10

Petrol filter for flush mounting on pipeworks

Body made of **chromed zamak and clear shatter-proof glass**; the user can see the fuel and any possible filter saturations; removable, fitted with replaceable refill filter; includes 3 hose adaptors sizes 6/8/10, designed to fit into any type of piping.

Code	⟷ mm	3 spare refill
17.665.00	28x85	**17.665.01**

Purifying filter for diesel fuel with clear tray

Made of die-cast aluminium, with clear polycarbonate tray and bottom drain screw.

Code	Flow l/h		Washable SS mesh filtering unit	⟷ mm	Protrusion mm	MB hose connector	Hoce connector	Spare cartridge
	max	optimum						
17.639.00	400	130	200 micron	150x 80	65	14	**17.660.02; 17.660.03; 17.638.02; 17.638.03**	**17.639.01**

Fuel filter with clear glass tray

Fitted with removable tray, easy for replacing cartridge filters; specially suited for outboard engines.

Code	Version	Hose adaptors OPTIONAL	Flow lt/h		⟷ mm	Spare cartridge
			optimal	max		
17.656.00	With 200-micron S.S. filtering cartridge, washable	17.660.02; 17.660.03; 17.638.02; 17.638.03	50	250	110x75x60 (compact)	**17.656.01** SS
17.656.05	With 12-micron paper filtering cartdrige	17.660.02; 17.660.03; 17.638.02; 17.638.03	20	150	110x75x60 (compact)	**17.656.07** paper

Purifying filter for diesel fuel, made of die-cast aluminium

Fitted with interchangeable cartridge, maximum capacity of 65 l/hour, lower unblocking, filtering level of 12 micron.

Code	Flow l/h	Max outer dimensions mm	MB thread	Spare cartridge	Lower bell	OPTIONAL fittings
17.661.15	65	160x100x92	14	**17.666.10**	Glass to see possible residues of water or other materials	17.660.02; 17.660.03; 17.638.02; 17.638.03

Purifying filter for diesel fuel

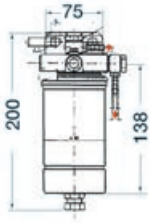
Made of die-cast aluminium; fitted with hand pump for filling the circuit (5 threaded holes + 3 plugs).

Code	Flow l/h	Max outer dimensions mm	Thread MB	OPTIONAL fittings	Spare cartridge
17.842.10	65	160x100x92	14	**17.660.02; 17.660.03; 17.638.02; 17.638.03**	**17.666.10**

12-micron paper filter for diesel fuel

Made of die-cast aluminium; fitted with separator cartridge (screwed in); bottom drain screw.

Code	Max capacity lt/h	Filtering degree	Threads mb	Max external size mm	Fittings OPTIONAL	Spare cartridge
17.638.00	80	12 micron	14	200x113x91	17.660.02; 17.660.03; 17.638.02; 17.638.03	**17.638.01**



Water-fuel filter/separator

Made of anodized aluminium, with transparent container that can be taken off to clean it or to replace the filtering cartridge.

Code	Filter	Filtering degree	Water drain screw	Flow l/h at pressure			Height mm	Cartridge Ø mm	11/16" UNC hose connectors included	Spare cartridge
				0.49 PSI	1.5 PSI	2.45 PSI				
17.661.40	Petrol	10-micron	yes	205	333	420	190	110	2 x 10 mm	**17.661.50**
17.661.60	Gasoil	25-micron	yes	205	333	420	190	110	2 x 10 mm	**17.661.70**

OSCULATI

Diesel filter type CAV with water drain

Water-fuel filter separator. Made in compliance with the ISO 10088 standard.
Aluminium head and water drain container.

Code	Type	Flow l/h		MB thread mm	⟷ mm	Spare cartridge	OPTIONAL fittings
		optimum	max				
17.666.00	296	50	100	14	175x100	**17.666.10***	**17.660.02/03; 17.638.02/03**
17.666.01	396	60	130	14	220x100	**17.666.11**	**17.660.02/03; 17.638.02/03**

* *Equivalent Volvo 858201-3581078*

17.666.00

17.666.01

17.666.10

17.666.11

Strainer + water/fuel separator

Compound technopolymer head, clear tray with fast drain. 10-micron cartridge.
Fitted with hose connectors (2x 10mm, 2x8mm).

Code	Flow l/h at pressure			Overall height mm	Overhang mm	Ø mm	10-micron spare cartridge
	0.49 PSI	1.47 PSI	2.45 PSI				
17.661.33	200	316	406	190	85	68	**17.661.34**

Universal water/fuel separating filter

OSCULATI

With aluminium support and standard cartridge. Fitted with conical, self-locking and self-sealing hose adaptors.

Code	Cartdrige micron	Recommended for	Water collection tray		Drain plug	Total height mm	Ø mm	Overhang mm	Flow l/hour at pressure			Cartridge thread	Fittings included	Spare cartridge
			Material	Spare					0.49 PSI	1.47 PSI	2.45 PSI			
17.664.00	10	Petrol/ Diesel	Clear polyamide	17.664.12	Black plastic	220	93	100	192	324	410	11/ 16"	2 x 10-mm Ø hose adaptors	**17.664.10**
17.664.03	30	Diesel	Aluminium	-	Chromed brass	220	93	100	192	324	410	11/ 16"	2 x 10-mm Ø hose adaptors	**17.664.11**

17.664.10 *Spare part RACOR S3213/Mercury/Mercruiser/Volvo/Yamaha/Suzuki/Sierra.*

◢ 17.664.00 - Black plastic drain plug.

◢ 17.664.03 - Chromed brass drain plug

◢ 17.664.12

◢ 17.664.10

RACOR equivalent spare cartridge

Code	Thread	Micron	Equivalence	Spare tray
17.664.10	11"/16"-16	10	RACOR S 3213 (Volvo/Mercury 35-809097/ Yamaha MAR-24563-00-00/Suzuki)	**17.664.12**
17.664.21	1"-14	10	RACOR S 3227 (Honda 17670-ZW1-801AH/ Mercury 35-886638/Suzuki 99105-20005)	**17.664.12**

10-micron gasoline/diesel filter with disposable cartridge

Fitted with conical, self-locking and self-sealing hose adaptor.

Code	Head support	Height mm	Overhang mm	Cartridge Ø mm	Cartridge thread	Capacity l/h with pressure			10-mm fittings mm	Spare cartridge
						0.49 PSI	1.47 PSI	2.45 PSI		
17.660.40	Plastic	145	110	92	11/ 16"	182	315	404	INCLUDED	**17.660.45**
17.660.41	Aluminium	145	110	92	11/ 16"	182	315	404	INCLUDED	**17.660.45**

Equivalent Mercury 35-60494A4, 35-802893Q, 35-807172

◢ 17.660.45

Petrol filter + water/fuel separator

Aluminium head, transparent tank, rapid drain system. Recommended for engines up to 200 HP - Equivalent to Yamaha 2W-114-00-00. Fitted with 8-mm hose adapter.

Code	Flow l/h with pressure			Total height mm	Protrusion mm	Ø mm	Spare water tray	Cartridge thread	Hose connector Ø mm INCLUDED	10-micron spare cartridge
	0.49 PSI	1.47 PSI	2.45 PSI							
17.661.30	200	316	406	230	90	75	**17.661.32**	13/16"	2 x 8	**17.661.31**

Equivalent Yamaha MAR - MINIF - IL - TR

◢ 17.661.32

Water/fuel filter/separator

Fitted with 10-micron high-capacity cartridge. Aluminium head. Universal size to fit any type of engine. Fitted with conical, self-locking and self-sealing hose adaptors, caps to close unused passages, and stainless steel clamps.

Code	Flow l/h at pressure			Cartridge micron	Recommended for	Water collection tray		Drain plug	Total height mm	Ø mm	Overhang mm	Cartridge thread	Fittings included	Spare cartridge
	0.49 PSI	1.47 PSI	2.45 PSI			Material	Spare							
17.661.35*	206	331	414	10	Petrol/ Diesel	Aluminium	-	Chromed brass	280	92	110	11/16"	2 x 10-mm Ø hose connectors	**17.661.26**
17.661.24	206	331	414	10	Petrol/ Diesel	Clear polyamide	**17.664.12**	Plastic	290	92	110	11/16"	2 x 10-mm Ø hose connectors	**17.661.26**
17.661.37	206	331	414	30	Diesel	Aluminium	-	Chromed brass	280	92	110	11/16"	2 x 10-mm Ø hose connectors	**17.661.28**

* *Equivalent Yamaha MAR - FUELF - IL - TR*

◢ 17.664.12

◢ 17.661.24 - Black plastic drain plug

◢ 17.661.35 - Chromed brass drain plug

Purifying filter fitted with stainless steel 120 micro filtering element

Suitable for mid power motors; made in accordance with **RINA** standards, suitable for diesel or petrol.

Code	Joints	Max Flow l/h (while accelerating)	Optimum flow l/h	⟷ mm	Spare filter
17.020.00	3/8"	460	240	100x100x235	**17.020.01**

Centrifugal water/fuel separator filter (diesel or petrol), 150 micron

Stainless steel filtering element. The centrifugal inflow separates the smallest particles providing an excellent filtration; universal size fits all motors; made with **RINA** type approved materials.

Code	Treads	Flow l/h		Version	⟷ mm	Spare cartridge
		constant	max			
17.021.00	3/8"	600	1200	Universale	180x140x 320	**17.021.01**

Hose fitting

Universal for all Osculati's filters, thread 14 MB

Code	Material	For pipe Ø mm	Thread
17.660.02	brass	hose connector 8	M 14 x 1.5 (14 MB)
17.660.03	brass	hose connector 10	M 14 x 1.5 (14 MB)

Kit fitted with 2 swivelling brass joints + 2 hose adaptors + 4 cooper gaskets

Universal for all Osculati's filters, thread 14MB.

Code	Hose connector mm	Thread
17.638.02	8	M 14 x 1.5 (14 MB)
17.638.03	10	M 14 x 1.5 (14 MB)

► GERTECH filter technology

GERTECH filter technology

◢ 17.671.01

IMPROVED QUALITY

◢ 17.668.05

GERTECH filter technology - Vortex series diesel filters

Water-diesel filters/separators. Aluminium body, technopolymer transparent part. Fitted with flame-retardant lower tray. Made in compliance with the ISO 10088 standard.

Code	Flow l/h		Hose connector thread	Hose connector	Filtering degree	Racor matching	⟷ mm	30-micron spare cartridge
	max	continuous						
17.671.01	230	180	3/8"	Not included	30 micron	2010 (500)	330x152 x152	**17.668.05**

► RACOR filters

◢ 17.675.01

◢ 17.675.03

◢ 17.675.05

RACOR filters

Water/fuel separators for diesel only. Sold with 10-micron cartridge, also available with 30-micron cartridge.

Code	Model	Flow l/h	Hose connector	⟷ mm	Spare cartridge	
					10 micron	30 micron
17.675.01	120 A	57	1/4"-18NPTF	81x81x165(h)	**17.675.23 (R12T)**	**17.675.22 (R12P)**
17.675.03	230 R	114	1/4"-18NPTF	99x102x230(h)	**17.675.25 (R20T)**	**17.675.24 (R20P)**
17.675.05	245 R	170	1/4"-18NPTF	99x102x267(h)	**17.675.29 (R25T)**	**17.675.28 (R25P)**

◢ 17.675.20

◢ 16.675.30

RACOR spare cartridges for fuel

Code	Original ref.	Micron
17.675.20	S 3213	10
17.675.21	S 3227	10
17.675.23	R 12T	10
17.675.25	R 20T	10
17.675.29	R 25T	10
17.675.22	R 12P	30
17.675.24	R 20P	30
17.675.26	R 24P	30
17.675.28	R 25P	30
17.675.30	R 26P	30

RACOR fuel diesel filters - Single version

Also suitable as water/diesel separators, 30-micron filtering degree.
RINA type approved and certified by Coast Guard. Equipped with hose connector.

Code	Flow l/h		Type	Hose connectors INCLUDED	mm	kg
	max	continuous				
17.667.01	227	180	500MA	3/8"	292x147x122	2
17.667.02	341	270	900MA	1/2"	432x152x178	3
17.667.03	680	540	1000MA	1/2"	559x152x178	5

17.667.17 *Sensor for water alarm for 17.661.01 (Racor filter 500MA)*

For hose adaptors see series 17.198.xx

RACOR filters - Double version with selection valve

Code	Flow l/h		Type	Hose connector	mm	kg
	max	continuous				
17.667.30	681	540	75900MAX	1/2"	432x476x279	10
17.667.31	1363	1080	751000MAX	1/2"	559x476x279	14

For hose adaptors see code 17.198.07; 17.198.08; 17.198.09

17.667.40 *Female-female fitting for hose adaptor. Order 2 pcs per filter.*

RACOR 100% metal filter - Single version

For petrol and Diesel engines. It also works as water/fuel separator featuring 30-micron filtering degree. Marine UL type-tested.

Code	Flow l/h		Type	Hose adaptor INCLUDED	mm	kg
	max	continuous				
17.667.11	227	180	500MAM	3/8"	292x147x122	1.8
17.667.12	341	270	900MAM	1/2"	432x152x178	2.7
17.667.13	680	540	1000MAM	1/2"	559x152x178	7.7

17.667.17 *Water alarm sensor for 17.667.11 (Racor 500MAM filter).*

For hose connector see series 17.198.xx.

RACOR 100% metal filter - Dual version with selection valve

Code	Flow l/h		Type	Hose adaptor	mm	kg
	max	continuous				
17.667.52	1363	1080	751000MAXM	1/2"	559x457x279	17.7

For hose adaptor see code 17.198.07; 17.198.08; 17.198.09.

17.667.40 *Female-female fitting for hose adaptor. Order 2 pcs per filter.*

RACOR genuine cartridges

30 micron	10 micron	For strainers
17.667.21	**17.667.41**	500MA
17.667.22	**17.667.42**	900MA
17.667.23	**17.667.43**	1000MA

Replacement diesel filter cartridges SOLAS

Mod. solas	Corresponding				Version	Micron
	Racor	Dahl	Separ	Volvo		
17.668.01	2010 (500) up to 2003	PF 598	20110	861014	short	20
17.668.02	2040 (900) up to 2003	PF 589	20410	3825027	medium	20
17.668.03	2020 (1000) up to 2003	PF 590	20210	-	long	20
17.668.05	2010 (500) since 2004	-	-	-	-	30
17.668.06	2040 (900) since 2004	-	-	-	-	30
17.668.07	2020 (1000) since 2004	-	-	-	-	30

► Oil, air and fuel engine filters

VOLVO oil/fuel oil/petrol/air filters

ENGINE	VENT FILTER		OIL FILTER		FUEL FILTER		AIR FILTER		IMPELLER	
	Osculati ref.	OEM	Osculati ref.	OEM	Osculati ref.	OEM	Osculati ref.	OEM	Osculati ref.	OEM
VOLVO DIESEL										
MD 1A/B; 2A/B; 5A/B/C; 11C/D	-	-	17.501.01	834337; 22057107	17.502.12; 17.502.01	829913; 3581078	-	-	16.194.02	3586496
MD 6A/B	-	-	17.501.01	834337; 22057107	17.502.15	3825133; 21492771	-	-	16.194.02	3586496
MD 7A/B	-	-	17.501.01	834337; 22057107	17.502.15	3825133; 21492771	-	-	16.194.02	3586496
MD 3B/17C	-	-	17.501.01	834337; 22057107	17.502.12; 17.502.13 with drain	829913	-	-	16.194.04	3593659
MD 21A/B; AQD 21A/B	-	-	17.501.04	3581621; 21549544	17.502.01	3581078	-	-	16.194.09	875575
MD 22A/B; TDM 22A/B; TAMD 22A	-	-	17.501.06	3517857	17.502.05 (no drain); 17.638.01 (with drain); 17.502.01	3840335; 21624740; 3581078	-	-	16.194.05	3862281; 877400
MD 30 A/B/D/AQ; TAMD 30A/B/D/AQ; TMD 30A/B/D/AQ; AQAD30A	17.503.00	876069	17.501.06	3517857	17.502.15	3825133; 21492771	-	-	16.194.06	3841697
AQAD 31A; AD31A/B/D/XD/P/L-A; MD 31A; TMD 31A/B/D/L-A; TAMD 31A/B/D/P/L/M/S-A; KAD32A	17.503.00	876069	17.501.06	3517857	17.502.15	3825133; 21492771	17.498.02	21646645; 3582358	16.194.06	3841697
MD 40A; TMD 40A/B/C; TAMD 40A/B; AQD4 0A; AQAD 40A/B	17.503.00	876069	17.501.05	471034	17.502.05 (no drain); 17.638.01 (with drain)	3840335; 21624740	-	-	16.194.06	3841697
TMD 41A/B/D/L-A; TAMD 41A/B/D; D41A/B/D/L-A; AD41A/B/D; AQ41A; AQA41A	17.503.00	876069	17.501.05	471034	17.502.05 (no drain); 17.638.01 (with drain)	3840335; 21624740	17.498.01; 17.498.02 (last type)	858488; 21646645	16.194.06	3841697
TAMD 41P/L/M/H-A/H-B; AD41*P/L-A	-	-	17.501.05	471034	17.502.05 (no drain); 17.638.01 (with drain)	3840335; 21624740	17.498.01; 17.498.02 (new 41)	858488; 21646645; 3582358	16.194.06	3841697
KAD42A/B/P-A; KAMD42/B/P-A; KAD43P-A; KAMD43P-A; KAD44P-A/P-C; KAD300A; KADM44P-A/P-B/P-C; KADM300A	-	-	17.501.09	4785974; 423135	17.502.05 (no drain); 17.638.01 (with drain)	3840335; 21624740	17.498.03	876185	16.194.06	3841697
2001; 2002; 2003; 2003T	-	-	17.501.01	834337; 22057107	17.502.12; 17.502.01	829913; 3581078	-	-	16.194.02; 16.194.05 (2003S)	3586496; 3562281
MD 2010/2020/2030/2040	-	-	17.501.24	861473	17.502.02; 17.502.01	861477; 3581078	-	-	16.194.01**; 16.194.04***; 16.194.57	3586494; 3593659; 3593573
D1-13; D1-20	-	-	17.501.24	861473	17.502.02	861477	-	-	16.194.04	35.936.59
D1-30; D2-40	-	-	17.501.25	3840525	17.502.02	861477	-	-	16.194.04	35.936.59
D2-50/55/60/75	-	-	17.501.25	3840525	17.502.02	861477	-	-	16.194.05	877400; 3862281
D3 YEAR 2009	-	-	17.501.20	8692305	17.502.13	8683212; 31261191; 860874	17.498.02	3582358; 21646645	16.194.27	21951352; 21213664
D3 YEAR 2010	-	-	17.501.26	30788490	17.502.17	21139810	-	-	16.194.27	21951352; 21213664
D4; D6	-	-	17.501.22; 17.501.23 (By Pass)	3582732; 22030848; 3582733	17.502.04	3583443; 21718912	17.498.04	3118541; 21702999	17.194.26 (D4); 17.194.57 (D6)	3588475; 3593573
TAMD 61A / 62A / 63L-A / 63P-A; TAMD 71A/B; TAMD 73P-A / 73WJ-A; TAMD 72P-A / 72WJ-A / 72A; TAMD 74A/ A-A/ A-B/ C-A/ C-B/ L-A/ L-B; TAMD 74P-A/ P-B; TAMD 75P-A	17.503.00	876069	17.501.17	21549542; 3827069	17.502.15	3825133; 21492771	17.498.03	876185	16.194.08; 16.194.07; 16.194.24	875814; 21730344; 877066
TAMD 72P-A / 72WJA; TAMD 73L-A / 63P-A; TAMD 74A/ A-A/ A-B/ C-A/ C-B/ L-A/ L-B; TAMD 74P-A/ P-B; TAMD 75P-A; TAMD 71A/B/ 73P-A/ 73WJ-A; TMD 121C/ 102A/ 122A; TAMD 121C/D/ 122C/D; TAMD 103A-A/ A-A-AUX; TAMD 61A/ 62A /122A / 122P-A/ 122P-B	17.503.00	876069	17.501.18	847741	17.502.15	3825133; 21492771	17.498.03	876185	16.194.07; 16.194.08	21730344; 875736; 875814
VOLVO PETROL										
3.0 GLP-C/D/E/J	-	-	17.501.02	835440	-	-	-	-	16.194.27; 16.194.56	21213664; 21213660
3.0 GXI-J/XIC-J	-	-	17.501.02	835440	-	-	-	-	16.194.27	21213664
4.3 GL-J/JF; GXI-J/JF; OSI-J/JF	-	-	17.501.20	8692305	17.502.16; 17.502.18 (GXi,OSi)	3862228; 3847644	-	-	16.194.27	21213664
4.3 GXI-G/GF/OSI-G/GF	-	-	17.501.02	835440	17.502.16	3862228	-	-	16.194.27	21213664
4.3 GL-A/GL-B/GL-C/GL-D; AQ175A; AQ205A; 430A/B; 431A/B; 432A; 434A	-	-	17.501.03	841750	17.502.16	3862228	-	-	16.194.56	3862567; 21951348
5.0 GL-J/JF; GXI-J/JF; OSI-J/JF	-	-	17.501.20	8692305	17.502.16; 17.502.18 (GXi,OSi)	3862228; 3847644	-	-	16.194.27	21213664
5.0 GXI-G/GXI-GF/OSI-G/OSI-GF	-	-	17.501.02	835440	17.502.16	3862228	-	-	16.194.27	21213664
5.7 GI300-J/JF; 5.7 OSI-J/JF; 5.7GXI-J/JF; 5.7OSXI-J/JF	-	-	17.501.20	8692305	17.502.16	3862228	-	-	16.194.27	21213664
5.7 GI-F/GI-FF/GXI-G/GXI-GF; 5.7 OSI-E/OSI-EF	-	-	17.501.02	835440	17.502.16	3862228	-	-	16.194.27	21213664

ENGINE	VENT FILTER		OIL FILTER		FUEL FILTER		AIR FILTER		IMPELLER	
	Osculati ref.	OEM	Osculati ref.	OEM	Osculati ref.	OEM	Osculati ref.	OEM	Osculati ref.	OEM
7.4 GI/GSI; DPX385	-	-	17.501.27	3850559	17.502.16	3862228	-	-	16.194.05	3862281
7.4 GL	-	-	17.501.27	3850559	17.502.16	3862228	-	-	16.194.17; 16.194.05	3854286****; 3862281*****
8.1 GI-J/JF/GXI-J/JF/OSI-J/JF	-	-	17.501.20	8692305	17.502.16	3862228	-	-	16.194.27	21213664
8.1 GI-H/HF/GXI-G/GF/OSI-D/DF	-	-	17.501.02	835440	17.502.18	3847644	-	-	16.194.27	21213664
8.2 GL	-	-	17.501.27	3850559	17.502.16	3862228	-	-	16.194.17	3854286
8.2 GSI; DPX415	-	-	17.501.27	3850559	17.502.16	3862228	-	-	16.194.56	21213660
500 A/B; 501 A/B	-	-	17.501.02	835440	17.502.06	855686	-	-	16.194.05	3862281
570 A; 571 A; 572 A	-	-	17.501.02	835440	17.502.06	855686	-	-	16.194.67	876120
740 A/B	-	-	17.501.02	835440	17.502.06	855686	-	-	16.194.67	876120
AQ 95/100/110/115/120A/130	-	-	17.501.06	3517857	17.502.01	3581078	-	-	16.194.04	3593659
AQ 120B/140/145A/165/171	-	-	17.501.06	3517857	17.502.01	3581078	-	-	16.194.84	875575
AQ 120B/125A/B; AQ131A/B/C/D; 230A/B; BB140A; AQ140A; BB145A; AQ145A/B; AQ151A/B/C; 250B; BB145A; AQ 170A/B/C	-	-	17.501.06	3517857	17.502.01	3581078	-	-	16.194.84	875575
AQ 225B/C/D/E/F	-	-	17.501.02	835440	17.502.01	3581078	-	-	16.194.67	876120
AQ 231 A/B; BB231A	-	-	17.501.02	835440	17.502.01	3581078	-	-	16.194.05; 16.194.67 (H50)	3862281; 876120
AQ 255 A/B; AQ 260 A/B; BB 260 A/B/C	-	-	17.501.02	835440	17.502.01	3581078	-	-	16.194.05*; 16.194.67* (H50)	3862281; 876120
AQ 271/B/C/D; BB261/A	-	-	17.501.02	835440	17.502.06; 17.502.01	855686; 3581078	-	-	16.194.05; 16.194.67 (H50)	3862281; 876120
AQ 280A; AQ 290A	-	-	17.501.02	835440	17.502.01	3581078	-	-	16.194.05; 16.194.67 (H50)	3862281; 876120
AQ 311A/B	-	-	17.501.02	835440	17.502.06; 17.502.01	855686; 3581078	-	-	16.194.05; 16.194.67 (H50)	3862281; 876120
BB 115A/B/C; AQ 115A/B; AQ 130A/B/C/D	-	-	17.501.06	3517857	-	-	-	-	16.194.01	3586494
BB 225A/B/C	-	-	17.501.02	835440	17.502.06; 17.502.01	855686; 3581078	-	-	16.194.05; 16.194.67	3862281; 876120
-										

** Except AQ255A; ** MD2010 SN 5101203008 / MD2020 SN 5101309052; *** MD 2010 SN 5101203009 / MD 2020 SN 5101309053; **** MD; ***** HU/NC/LK*

VOLVO Penta Diesel engine oil filters		VOLVO Penta Diesel engine naphtha filter		VOLVO Penta Petrol engine fuel filters		VOLVO Penta Petrol engine oil filters	
Code	OEM No	Code	OEM No.	Code	OEM No.	Code	OEM No.
17.501.01	834337; 22057107	**17.502.04**	3583443; 21718912	**17.501.06**	3517857	**17.502.16**	3862228
17.501.04	3581621; 21549544	**17.502.05**	3825133; 21492771; 466987	**17.501.02**	835440	**17.502.06**	855686
17.501.06	3517857	**17.502.12**	829913	**17.501.03**	841750	**17.502.18**	3847644
17.501.17	3827069; 21549542	**17.502.13**	31261191; 8683212; 860874	**-**	-	**-**	-
17.501.05	471034	**17.502.01**	3581078	**-**	-	**-**	-
17.501.09	4785974; 423135	**17.502.02**	861477	**-**	-	**-**	-
17.501.18	847741	**17.638.01**	21624740	**-**	-	**-**	-
17.501.20	8692305	**17.502.15**	3825133; 21492771; 466987	**-**	-	**-**	-
17.501.22	3582732; 22030848	**17.502.17**	21139810	**-**	-	**-**	-
17.501.23	3582733	**-**	-	**-**	-	**-**	-
17.501.24	861473	**-**	-	**-**	-	**-**	-
17.501.25	3840525	**-**	-	**-**	-	**-**	-
17.501.26	38788490	**-**	-	**-**	-	**-**	-
17.501.27	3850559	**-**	-	**-**	-	**-**	-

◢ 17.501.01/03/04; 17.502.05

◢ 17.501.02/06/17; 17.502.02/06/15/16

◢ 17.501.05/18/22/23

◢ 17.502.01

◢ 17.502.04

◢ 17.501.09

◢ 17.501.20

◢ 17.501.26

YANMAR oil/diesel/air filters

ENGINE	OIL FILTER		FUEL FILTER		AIR FILTER		IMPELLER	
	Osculati ref.	OEM	Osculati ref.	OEM	Osculati Ref.	OEM	Osculati Ref.	OEM
1 GM / GM10	17.504.10	119305-35151/35170	17.508.01	104500-55710	-	-	16.194.16	128176-42071
2GM20	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	16.194.01	104211-42070
2GM20F	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	16.194.13	128296-42070
2GM20YEU/FYEU	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	-	128397-42200
QM20/30	17.501.08	124085-35111	17.508.01	104500-55710	-	-	16.194.13	124223-42092
3GM30	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	16.194.01	104211-42070
3GM30YEU	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	-	128397-42200
3GM30F	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	16.194.13	128296-42070
3GM30FYEU	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	-	128397-42200
3JH2E	17.504.10	119305-35151/35170	17.508.01	104500-55710	-	-	16.194.05	129470-42532
3JH2TE	17.504.10	119305-35151/35170	17.508.02	129470-55703	17.497.03	129470-12330	16.194.05	129470-42532
4JH SM3 BG3	17.501.11	129150-35150	17.508.02	129470-55703	-	-	16.194.05	129670-42531
4JHE/2E/2TE; 4JH2HTE; 2DTE-4JHDTE	17.501.12	129150-35153/35170	17.508.02	129470-55703	17.497.03	129470-12330	16.194.05	129470-42532
4JH2UTE	17.501.12	129150-35153/35170	-	129574-55711	17.497.03	129470-12330	16.194.05	129470-42532
3JH3E/EYEU	17.504.10	119305-35151/35170	17.508.02	129470-55703	-	-	16.194.05	129670-42531
4JH3E	17.501.12	129150-35153/35170	17.508.02	129470-55703	-	-	16.194.05	129670-42531
4JH3TE; 4JH3HTE/DTE	17.501.12	129150-35153/35170	-	129574-55711	17.497.03	129470-12330	16.194.05	129670-42531
4LHDTE/STE	17.501.13	127695-35150/35160	17.508.03	41650-502320	-	XN199611	16.194.06	120650-42310
4LHAHTE	17.501.13	127695-35150/35160	-	121857-55710	-	119195-18880	16.194.06	120650-42310
4LHADTE; 4LHASTE	17.501.13	127695-35150/35160	17.508.03	41650-502320	-	119195-18880	16.194.06	120650-42310
6LPDTE/STE	17.501.14	119770-90620A	17.508.04	119773-55510	17.497.05	119593-18880	16.194.23	119773-42600
6LYUTE	-	11959335400	17.508.05	41650-502330	17.497.05	119593-18880	16.194.45	119593-42200
6LYSTE	17.501.15	119593-35100	17.508.05	41650-502330	17.497.05	119593-18880	16.194.45	119593-42200
6LYAUTE/ASTE	17.501.15	119593-35100	17.508.05	41650-502330	17.497.05	119593-18880	16.194.62	119574-42550/52
6LY2STE/3ETP	-	11959335400	17.508.05	41650-502330	17.497.05	119593-18880	16.194.62	119574-42550/52
6CXETE	17.501.13	127695-35150/35160	-	127695-55630	17.497.05	119593-18880	-	128620-42200
6CX530	17.501.13	127695-35150/35160	-	127677-55136	-	127692-18880	-	128628-42202
3JH4E/5E	17.504.10	119305-35151/35170	17.508.02	129470-55703	-	-	16.194.05	129670-42531
4JH5E/4AE	17.501.12	129150-35153/35170	-	119802-55801	-	-	16.194.05	129670-42531
4JH4E	17.501.12	129150-35153/35170	17.508.02	129470-55703	-	-	16.194.05	129670-42531
4JH4TE-HTE	17.501.12	129150-35153/35170	-	129757-55711	-	-	16.194.05	129670-42531
3YN30/N20/N15	17.504.10	119305-35151/35170	17.508.01	104500-55710	17.497.01	128270-12540	-	128397-42200

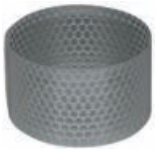
YANMAR engine oil filters		YANMAR engine fuel filters		YANMAR engine air filters	
Code	OEM N.	Code	OEM N.	Code	OEM N.
17.504.10	119305-35151/35170	**17.508.01**	104500-55710	**17.497.01**	128270-12540
17.501.12	129150-35153/35170	**17.508.02**	129470-55703-55810	**17.497.03**	129470-12330
17.501.13	127695-35150/35160	**17.508.03**	41650-502320	**17.497.05**	119593-18880
17.501.14	119770-90620A	**17.508.04**	119773-55510	**-**	-
17.501.15	119593-35100	**17.508.05**	41650-502330	**-**	-
17.501.11	129150-35150	**-**	-	**-**	-
17.501.08	124085-35111	**-**	-	**-**	-

◢17.508.05

◢17.508.03

◢17.508.01

◢17.497.05


◢17.497.03

◢17.497.01

◢17.508.04

◢17.501.13/14/15

◢17.508.02; 17.501.07/08/11/12

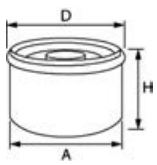
◢17.504.10/12

◢17.504.15

◢17.504.07

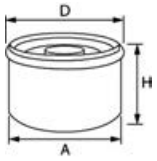
HONDA oil filters for 4-stroke outboards

Code	Engine	Engine / Orig. Ref.	HP	⟷		
				body Ø A mm	H mm	outside Ø D mm
17.504.10	Honda	15400-PFB-014/004	8/60	68	65	70
17.504.12	Honda	15400-RBA-F01	75/225	76	85	79
17.504.15	Honda	15400-PLM-A01PE	75/225	68	86	70
17.504.07	Honda	15400-PFB-007 15400-ZW4-003	25/50	65	65	67



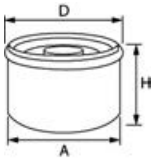
YAMAHA and SELVA oil filters for 4-stroke outboards

Code	Engine	Engine / Orig. Ref.	HP	|⟷|		
				case Ø A mm	H mm	outside Ø D mm
17.504.03	Yamaha and Selva	5GH-13440-30-00 5GH-13440-30-00	30/115	66	73	67



YAMAHA oil filters for 4-stroke outboards

Code	Engine	Engine / Orig. Ref.	HP	|⟷|		
				case Ø A mm	H mm	outside Ø D mm
17.504.05	Yamaha	5GH-13440-01-00 5GH-13440-03-00	150/250	74	85	77
17.504.07	Yamaha	5GH-13440-20-00 5GH-13440-50-00	9.9/70	65	65	67
17.504.09	Yamaha	N26-13440-00-00 N26-13440-02-00	225/350	74	97	77



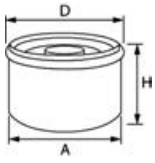
◢ 17.504.05

◢ 17.504.07

◢ 17.504.09

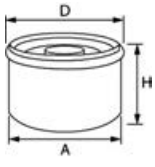
TOHATSU oil filters for 4-stroke outboards

Codice	Engine	Engine / Orig. Ref.	HP	|⟷|		
				case Ø A mm	H mm	outside Ø D mm
17.504.10	Tohatsu	3R-07615-0	-	68	65	70



MERCURY oil filters for 4-stroke outboards

Code		Engine	Engine / Orig. Ref.	HP	|⟷|		
					case Ø A mm	H mm	outside Ø D mm
17.504.05		Mercury	35-822626-Q15	225	74	85	77
17.504.10		Mercury	35-822626Q1,Q03	8/30	68	65	70
17.504.15		Mercury	35-822626Q1,Q03	25/30-40/ 60-75/115	68	86	70
17.504.17		Mercury	EFI 80/90/115 35-877761-Q01	80/115	94	85	95
17.504.19		Mercury	Verado 4 cyl. 35-877767-Q01	150/200	76	98	77
17.504.21		Mercury	Verado 6 cyl. 35-877769-Q01	225/350	76	116	77
17.504.20	New	Mercury	Fourstroke 35-8MO-123025	175/400	75	86	77



◢ 17.504.05/20

◢ 17.504.10

◢ 17.504.15

◢ 17.504.17

◢ 17.504.19

◢ 17.504.21

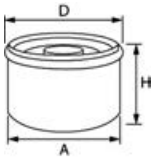
SUZUKI oil filters for 4-stroke outboards

Code		Engine	Engine / Orig. Ref.	HP	|⟷|		
					case Ø A mm	H mm	outside Ø D mm
17.504.01	New	Suzuki	DF 4-5-6-6A 16510B16H11N000	4/5/6	35	43	37
17.504.30*		Suzuki	DF 8/9,9/15/20 16510-05240/45H10	8/20	44	40	44
17.504.36		Suzuki	40-50-60 A; DF 40-50-60-70; 25-35; 20-25 V2; ORIG 16510-87J00	20/70	68	54	70
17.504.31		Suzuki	DF 140 16510-92J00-000	140	68	65	70
17.504.33*		Suzuki	DF 90/115; DF80A/DF140A; 16510-61A-31-000	90/140	68	86	70
17.504.35		Suzuki	DF 150/200/225/250/300 1650-96J00-000; 1650-96J00-000	150/300	68	86	70

◢ 17.504.30/01

◢ 17.504.36

◢ 17.504.31



◢ 17.504.33/35

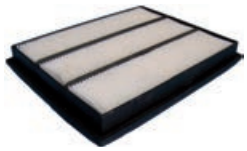
** Also fit for 4-stroke Johnson/Evinrude engines, same power*

Oil outlet filter

17.503.00 Oil outlet filter, suitable for **all Volvos** models from MD30 to TAMD103P-A (ref. orig.876069-6).

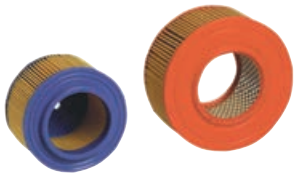
Volvo panel air filter

17.498.03 Original ref. 876185



VOLVO air filter

17.498.04 Volvo D4/D6/D9 air filter (it replaces orig. 3818541/21702999).



Air filters for "Volvo" engines

Code	D1 mm	D2 mm	H2 mm	H1 mm	Orig. Ref.
17.498.01	206	98	100	90	858488-0
17.498.02	155	90	98	85	3582358/21646645

Inboard filters

For engines	Oil filter		Fuel filter		Initials
	Code	Original ref.	Code	Original ref.	
GENERIC	**17.501.02**	201104	**17.502.06**	98041	CRUSADER
GENERIC	**17.501.02**	32716 14957 52731 54111 35866340Q03/K01 35-802885Q GM engine Short filter	**17.502.06**	32716 35-60494-1 35807172 35-802885Q 35802893	MERCRUISER
GENERIC	**17.501.02**	173232 502901	**-**	-	OMC 8 CYLINDERS
GENERIC	**17.501.02**	-	**17.502.06**	Aba-Fuel-IL-TR	YAMAHA V8 5.5 LT
GENERIC	**17.501.03**	35-802884Q 35-883702Q 41815 GM V-6 engine	**-**	-	MERCRUISER
GENERIC	**17.501.03**	V6	**-**	-	GM
GENERIC	**17.501.03**	L319	**-**	-	CHRYSLER
GENERIC	**17.501.03**	173834-502903	**-**	-	OMC
GENERIC	**17.501.06**	-	**17.502.06**	Aba-Fuel-IL-TR	YAMAHA V6 4.3 LT
-	**-**	-	**-**	-	-
DIESEL YANMAR	**17.504.10**	119305-35151/35170	**17.508.01**	104500-55710	GM 2YM/3YM
DIESEL YANMAR	**17.501.08**	124085-35111	**17.508.01**	104500-55710	HM-QM 20-30
DIESEL YANMAR	**17.504.10**	119305-35151/35170	**17.508.01**	104500-55710	3JH2
DIESEL YANMAR	**17.504.10**	119305-35151/35170	**17.508.02**	1294705-55703-55810	3JH2TE
DIESEL YANMAR	**-**	11930535150	**17.508.02**	1294705-55703-55810	3JH3
DIESEL YANMAR	**17.501.11**	129150-35150	**17.508.02**	1294705-55703-55810	4JH
DIESEL YANMAR	**17.501.33**	119593-35400 (BYPASS)	**-**	-	6LYUTE; 6LY2STE(P); 6LY2A-STP; 6LY3ETP/STP/UTP
DIESEL YANMAR	**17.501.12**	12915035151 12915035153 (Ø 79mm)	**17.508.02**	1294705-55703-55810	4JH
DIESEL YANMAR	**17.501.13**	127695-35150/35160	**17.508.03**	41650-502320	4LH
DIESEL YANMAR	**17.501.13**	127695-35150/35160	**-**	-	6CX
DIESEL YANMAR	**17.501.14**	119770-90620A	**17.508.04**	119773-55510	6LP
DIESEL YANMAR	**17.501.15**	119593-35100	**17.508.05**	41650-502330	6LYA; 6LY-UTE; 6LY-2-STE; 6LY-3-ETP
DIESEL YANMAR	**-**	-	**17.508.09**	129574-55711	4JH2-UTE; 4JH3TE/HTE/DTE; 4JH4TE/HTE; 4L4TE/HTE
DIESEL YANMAR	**-**	-	**17.508.12**	120650-55020	4BY; 4BY2; 6BY; 6BY2
DIESEL YANMAR	**17.504.10**	119305-35151/35170	**-**	-	D27

Outboard fuel filter

For Mercury VERADO 4/6 cylinder engines (Orig. 35-8M0020349 / 35-893318502).

Code	⟷		
	thread Ø mm	body Ø mm	height mm
17.504.11	45.5	35.5	126

Yamaha outboard fuel strainer

Code	Orig. ref.	Engines
17.504.40	6D8-WS 24A-00	F30/40/50/60/70/75/90/F115-LF115
17.504.41	6P3-WS 24A-01	F30/40/50/60/70/75/90/F115-LF115

◢17.504.41

◢17.504.40

Universal key to screw/unscrew strainers

17.640.00 It can be used with both fuel and oil strainers.
It screw/unscrew the clear or light alloy trays of water/fuel separator strainers.

► Fuel and water pipes

Copper pipe designed for fuel or liquid gas inflow

Meets with Directive ISO7840/10088/16147DIS for fuel and 10239 liquid gas.

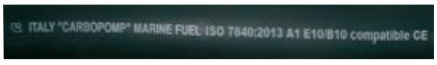
Code	⟷ mm	Roll m
45.028.11*	6 x 8	50
45.028.10	8 x 10	50
45.028.12	10 x 12	50

* *Especially recommended for gas*

Smooth pipe for fuel

Made in compliance with EC standards, RINA ISO 7840/2013 type-tested under class **A1** (the lower class A2, is **not** allowed for petrol, but only for diesel fuel). Synthetic fabric reinforcement.
Smooth fabric-like surface.

Code	Section mm	Internal Ø mm	External Ø mm	Approximate weight g/m	Bend radius mm	Roll m
17.751.08	8 x 17	8	17	0.27	50	40
17.751.10	10 x 19	10	19	0.30	60	40
17.751.12	12 x 21	12	22	0.43	75	40
17.751.16	16 x 26	16	26	0.50	100	40
17.751.19	19 x 29	19	30	0.64	115	40
17.751.25	25 x 35.5	25	37	0.87	250	20
17.751.38	38 x 52	38	52	1.55	380	10
17.751.40	40 x 54	40	54	1.60	400	10
17.751.50	50 x 64	51	65	1.95	500	10
17.751.60	60 x 71.5	-	-	-	-	10



◢17.751.08/10/12/16/19

◢17.751.25/38/40/50/60

Metal spiral pipe for fule

Made in compliance with EC standards, RINA ISO 7840/2013 type-tested under class **A1**, **flexible** version also for large diameters. Double metal spiral reinforcement. Ondulated surface.

Code	Section mm	Bend minimum radius mm	Internal Ø mm	Approximate weight g/m	Roll m
17.752.38	38 x 50	60	38	1.05	10
17.752.50	50 x 63	75	51	1.35	10

HOT WATER pipe made of special salt water and heat resistant rubber (-40°+120°)

Designed for cooling systems, heat exchange systems and boilers.
Synthetic fabric reinforcements. Smooth surface.

Code	Section mm	Approximate weight kg/m	Roll m
17.740.13	12.8 x 20	0.36	40
17.740.16	15.8 x23	0.42	40
17.740.19	19 x 27	0.48	40
17.740.26	25 x 34	0.62	40
17.740.30	30 x 42	0.80	20
17.740.35	35 x 49	1.10	20
17.740.40	40 x 54	1.33	10
17.740.50	51 x 66	1.80	10

► Pipes

Reinforced PVC hose

Made of **flexible PVC**, non-toxic, fitted with reinforced polyester thread; ideal for water distribution or for bilge pumps.

Code	Ø mm	Roll m
18.001.10	10x16	100
18.001.12	12x18	100
18.001.15	15x21	50

Code	Ø mm	Roll m
18.001.19	19x26	50
18.001.25	25x33	50
18.001.30	30x38	50

Spiral reinforced hose for WCs, pumps, etc.

Made of **clear PVC, fitted with white PVC spiral**. Very soft, it bends around narrow angles without crushing. **Non-toxic** in compliance with Ministerial Decree No 172.

Code	Internal Ø mm	External Ø mm	Thickness mm	Min. curve radius mm	Roll m
18.006.14	14	20	2.5	40	30
18.006.16	16	22	3	50	30
18.006.20	20	26	3	60	30
18.006.25	25	32	3.5	75	30
18.006.30	30	37	3.5	90	30
18.006.38	38	46	4	115	30

Traditional spiral hose for plumbing, pumps, etc.

Made of **clear PVC**, fitted with **steel** spiral. Very soft, it curves as much as its outer diameter without crushing. Ideal for sea cocks and skin fittings. WARNING: food-grade hose in compliance with CE 1935/2004 standard.

Code	Ø mm	Roll m
18.002.12	12x18	60
18.002.14	14x20	60
18.002.15	16x22	60
18.002.16	18x25	60
18.002.20	20x27	60
18.002.25	25x34	60
18.002.30	30x40	60
18.002.35	35x46	30

Code	Ø mm	Roll m
18.002.38	38x49	30
18.002.40	40x53	30
18.002.45	45x55	30
18.002.50	50x65	30
18.002.60	60x75	30
18.002.70	70x86	30
18.002.80	80x97	30

Special PREMIUM hose WC pipes, pumps and wash basins

Made of **anti-odour white PVC**, fitted with **flexible and sturdy steel** internal spiral.

Code	Ø mm	Roll m
18.003.20	20	60
18.003.25	25	60
18.003.40	38	30
18.003.41	40	30

SUPERFLEX spiral hose

Made of grey PVC with steel spiral. The mixture is very soft for a very **flexible rubber-like hose**. Surface-treated hose for a technical and professional silicon-like look.

Code	Ø mm	Roll m
18.007.16	16	60
18.007.20	20	60
18.007.25	25	60
18.007.30	30	30
18.007.38	38	30

Sanitary Spiral WC anti-odour hose

For sanitary fixtures. Steel spiral reinforced hose with smooth inside.
It is extremely flexible, more than rubber hoses. Made of a compound material featuring anti-smell barrier characteristics.

Code	Ø mm	Outer color	Curve radius mm	Roll m
18.004.20	20x27	White	30	30
18.004.25	25x33	White	38	30
18.004.38	38x47	White	76	30

Anti-odour Sanitation hose

Better than plastic pipes for its flexibility; smooth, antiadherent, anti-odour, bacterial flora resistant and acid resistant internal surface

Code	Ø mm	Curve radius mm	Roll m
18.005.16	16x24	50	30.5
18.005.19	19x27	60	30.5
18.005.25	25x33	75	30.5
18.005.38	38x47	115	30.5

► Hose clamps

Hose clamps

Made of mirror polished nickel plated **18/8 stainless steel**, fitted with electronic pitch control, band width **13 mm** (18.029.01/02 8 mm band), hexagonal screws to use a special pipe wrench; rounded edges to prevent cuts; supplied in practical container.

Code	Band mm	Min-Max Ø mm	ORDER BY BOX
18.029.01	8	10x16	10
18.029.02	8	11x23	10
18.029.22	13	10x19	10
18.029.03	13	14x27	10
18.029.04	13	19x38	10
18.029.05	13	27x51	10
18.029.06	13	40x64	10
18.029.07	13	52x76	10

Code	Band mm	Min-Max Ø mm	ORDER BY BOX
18.029.08	13	65x89	10
18.029.09	13	78x102	10
18.029.10	13	90x114	10
18.029.11	13	103x127	10
18.029.12	13	118x140	10
18.029.13	13	130x152	10
18.029.14	13	154x178	10
18.029.15	13	163x235	10

OSCULATI

AISI316 stainless steel hose clamp

AISI 316

Made of **AISI 316 stainless steel** with minted teeth for maximum strength. It includes **anti-seizure** galvanized 316 stainless steel screws

Code	Band mm	Min-Max mm	DIN standard	ORDER BY BOX
18.023.01	9	8-12	3017	10
18.023.02	9	10-16	3017	10
18.023.03	9	12-20	3017	10
18.023.04	9	16-25	3017	10
18.023.05	9	20-32	3017	10
18.023.06	9	25-40	3017	10
18.021.01	12	16-25	3017	10
18.021.02	12	20-32	3017	10
18.021.03	12	25-40	3017	10
18.021.04	12	32-50	3017	10
18.021.05	12	40-60	3017	10
18.021.06	12	50-70	3017	10
18.021.07	12	60-80	3017	10
18.021.08	12	70-90	3017	10
18.021.09	12	80-100	3017	10
18.021.10	12	90-110	3017	10
18.021.11	12	100-120	3017	10
18.021.12	12	110-130	3017	10
18.027.08	12.7	116-140	3017	10

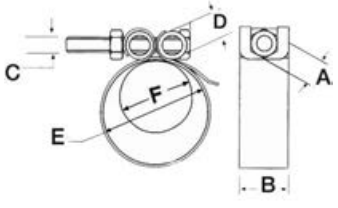
OSCULATI

HEAVY DUTY hose clamps

Made of **AISI 316 stainless steel**, designed for heavy duty usage, specially suitable for armoured pipes (exhaust pipes, WC, cooling pipes, etc).

Code	Locking mm		Band mm	Bolt mm		
	F	E	B	A	C	D
18.025.01	41	46	19x0,9	10	M6	11
18.025.02	45	50	19x0,9	10	M6	11
18.025.24	48	54	25x0,9	13	M8	14
18.025.03	54	61	19x0,9	10	M6	11
18.025.34	58	66	25x0,9	13	M8	14
18.025.04	65	72	19x0,9	10	M6	11
18.025.44	74	82	25x1,5	13	M8	14
18.025.05	82	89	19x0,9	10	M6	11
18.025.06	86	94	25x1,5	13	M8	14
18.025.07	94	102	25x1,5	13	M8	14
18.025.08	102	110	25x1,5	13	M8	14
18.025.09	110	118	25x1,5	13	M8	14
18.025.10	118	126	25x1,5	13	M8	14
18.025.11	130	142	32x1,5	19	M12	20
18.025.12	142	154	32x1,5	19	M12	20
18.025.13	154	166	32x1,5	19	M12	20
18.025.14	166	178	32x1,5	19	M12	20
18.025.15	178	190	32x1,5	19	M12	20
18.025.16	190	202	32x1,5	19	M12	20
18.025.17	202	214	32x1,5	19	M12	20
18.025.18	214	226	32x1,5	19	M12	20
18.025.19	226	238	32x1,5	19	M12	20
18.025.20	238	250	32x1,5	19	M12	20
18.025.21	250	262	32x1,5	19	M12	20

OSCULATI



Kit including 31 assorted clamps

Code	Description
18.300.01	3 pcs x 18.021.01 (12 x 16-25mm); 3 pcs x 18.021.02 (12 x 20-32mm); 3 pcs x 18.021.03 (12 x 25-40 mm); 2 pcs x 18.021.04 (12 x 32-50 mm); 2 pcs x 18.021.05 (12 x 40-60 mm); 2 pcs x 18.021.06 (12 x 50-70 mm); 2 pcs x 18.021.07 (12 x 60-80 mm); 2 pcs x 18.021.08 (12 x 70-90 mm); 4 pcs x 18.023.01 (9 x 8-12 mm); 4 pcs x 18.023.02 (9 x 10-16 mm); 4 pcs x 18.023.03 (9 x 12-20 mm).

OSCULATI

► Plastic clamps, hose clamps, cable clamps

U-clips suitable for fixing pipes and cables

Rubber-coated and made of AISI 304 stainless steel.

Code	Ø Passage mm	Code	Ø Passage mm	Code	Ø Passage mm
18.040.08	8	**18.040.18**	18	**18.040.36**	36
18.040.10	10	**18.040.20**	20	**18.040.40**	40
18.040.12	12	**18.040.22**	22	**18.040.46**	46
18.040.14	14	**18.040.26**	26	**18.040.50**	50
18.040.16	16	**18.040.30**	30	**18.040.60**	60

Nylon fairleads/cord grips

With screw-fitting eyelet; ideal for fixing electric systems, water pipes, control cables, etc.

Code	For max band size Ø mm	B mm	C mm	D mm	ORDER BY BOX
18.036.01	4.7	9.5	9.6	4.2	100
18.036.02	7.8	9.5	11.2	4.2	100
18.036.03	12.7	9.5	14	4.2	100
18.036.04	16	12.7	16.8	5.2	100
18.036.05	19	12.7	19.9	5.2	100
18.036.06	25.4	12.7	23.1	5.2	100
18.036.07	31.7	12.7	26.9	5.2	100
18.036.08	38.1	12.7	30.2	5.2	100

Cable/pipe holders

Made of **rubber-coated stainless steel**; ideal for fixing copper pipes (hydraulic wheelhouses, flaps, supply pipes), device to dampen vibrations, electric ducts, water pipes etc.

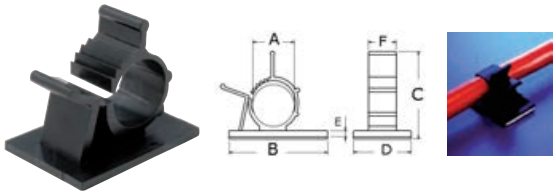
Code	inner Ø mm	Band width mm	AISI	ORDER BY BOX
18.024.08	8	16	304	10
18.024.10	10	16	304	10
18.024.12	12	16	304	10
18.024.14	14	16	304	10
18.024.16	16	16	304	10
18.024.18	18	16	304	10
18.024.20	20	16	304	10
18.024.22	22	16	304	10
18.024.25	25	16	304	10

Code	inner Ø mm	Band width mm	AISI	ORDER BY BOX
18.024.30	30	20	430	10
18.024.35	35	20	430	10
18.024.40	40	20	430	10
18.024.45	45	20	430	10
18.024.50	50	20	430	10
18.024.55	55	20	430	10
18.024.60	60	20	430	10
18.024.65	65	20	430	10

Fastening clip for hoses and cables

Made of self-extinguishing nylon with elastic wings and snap lock. Central screw mounting.

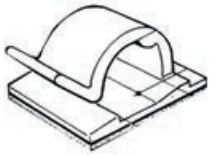
Code	Ø hose min/max mm	Resistance to release from N	ORDER BY BOX
18.008.02	12/16	23	75
18.008.03	16/23	23	50
18.008.04	20/25	25	50
18.008.05	25/32	31	25
18.008.06	32/40	40	20
18.008.07	40/60	50	15



Cable clamps with clip base

Self-adhesive clamps with nylon 66 base plate.

Code	Ø A mm	B mm	C mm	D mm	E mm	F mm	ORDER BY BOX
18.009.08	7.9/10.3	25.4	22.2	19.1	1.6	10.2	100
18.009.10	10/12.5	31.8	27.8	19.1	1.6	10.2	100
18.009.12	12.6/15.4	37	31.8	18.4	3	12.1	100
18.009.16	16/20.1	42	37	25	3	12.7	100
18.009.22	22/25.4	41.8	43.5	21.5	3	11.3	100



Self-adhesive nylon cable holders

Mounting does not require cable or pipe perforation.

Code	Working passage mm	ORDER BY BOX
18.030.01	5x5	100
18.030.02	8x11	100

Adjustable cable clamps

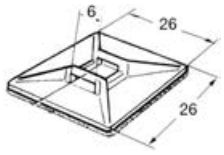
Requires one screw for mounting, made of **white nylon**.

Code	Base (AxB) mm	Width (C) mm	For cable band max. Ø mm	ORDER BY BOX
18.035.01	25x18	8	17	100
18.035.02	30x21	12	22	100
18.035.03	30x21	12	26	100

Clamp holder

Made of self-adhesive **nylon**: **type approved RINA N. 5/043/93**.

Code	ORDER BY BOX
18.032.00	100



Clamp supports

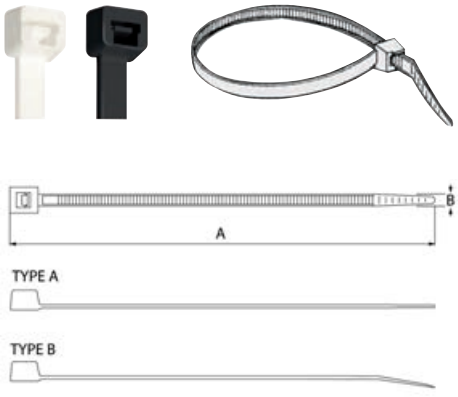
Fitted with central mounting system with one **nylon screw, type approved RINA 5/043/93**.

Code	Strap max width mm	⟷ mm	ORDER BY BOX
18.034.05	5	9.5x15x7h	100
18.034.09	9	15x22x11h	100

Cable ties

Made of **nylon 6/6**, suitable for cabling, self-locking system with teeth.

White	Black	Type	Length A mm	Width B mm	Beam Ø mm	Min. strength kg	ORDER BY BOX
18.031.00	**18.051.00**	A	98	2.5	1/21	8	100
18.031.01	**18.051.01**	A	140	3.5	2/35	13	100
18.031.11	**18.051.11**	A	200	3.5	2/50	13	100
18.031.02	**18.051.02**	A	178	4.8	2/45	22	100
18.031.03	**18.051.03**	B	290	4.5	2/79	22	100
18.031.33	**18.051.33**	B	390	4.8	3/106	22	100
18.031.04	**18.051.04**	B	365	7.5	5/100	55	100
18.031.44	**18.051.44**	A	540	7.5	35/158	55	100
-	**18.031.06***	-	285	8.8	3/70	80	100
-	**18.031.07***	-	375	8.8	5/100	80	100
18.031.19	**18.051.19**	B	225	12.5	7/57	110	50
18.031.20	**18.051.20**	B	500	12.5	30/143	110	50
18.031.21	**18.051.21**	B	720	12.5	30/200	110	50



* *For heavy loads, rounded edges, flat double head.*

Coloured nylon straps

Ideal to spot cables and circuits

Red	Yellow	Green	Blue	Length mm	Width mm	Bundle max Ø mm	Max grip kg	ORDER BY BOX
18.049.01	**18.049.11**	**18.049.21**	**18.049.31**	98	2.5	21	8.2	100
18.049.02	**18.049.12**	**18.049.22**	**18.049.32**	140	3.5	32	18.3	100
18.049.03	**18.049.13**	**18.049.23**	**18.049.33**	200	3.5	50	18.3	100
18.049.04	**18.049.14**	**18.049.24**	**18.049.34**	200	4.8	50	22.4	100
18.049.05	**18.049.15**	**18.049.25**	**18.049.35**	290	4.5	78	22.4	100

2-Lock ® clamps with AISI 316 stainless steel closure

Fitted with a new stainless steel cage closure built in the clamp head for:
- Double tensile strength in comparison with standard clamps.
- Smooth knurling-free tape, easier to apply and requiring less effort.
- Length continuous adjustment for correct tensioning on any diameter.

Code	Color	Width mm	Length mm	Bundle Ø mm	Minimum resistance kg	ORDER BY BOX
18.042.00	White	2.5	100	1/21	18.3	100
18.042.01	White	3.5	140	2/35	25.5	100
18.042.02	White	3.5	200	2/50	25.5	100
18.042.03	White	3.5	290	2/80	25.5	20
18.042.04	White	4.5	200	3/50	36.7	100
18.042.05	White	4.5	290	3/80	36.7	20
18.042.06	White	4.5	360	5/101	36.7	20
18.042.07	White	7.5	360	5/101	79.5	20

BELTURING PLUS technopolymer straps, high-resistance flat head

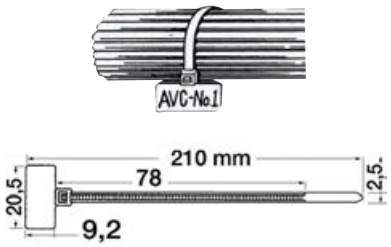
Outer rack, high grip, possible use in temporary position, UV-resistant.

Code	Head	Length mm	Width mm	Bundle max Ø mm	Grip kg	ORDER BY BOX
18.053.01	Single	115	6	25	28	100
18.053.02	Single	180	6	45	28	100
18.053.03	Single	290	6	78	28	100
18.053.04	Single	360	6	100	28	100
18.053.08	Double	260	9	60	55	100
18.053.10	Double	360	9	93	55	100

Nylon strap

For wiring, self-locking system, fitted **with eyelets** for screws. Ideal to bundle cables and fasten them with a screw or rivet on any support.

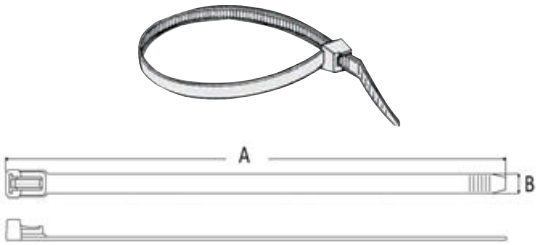
Code	Width mm	Length mm	Minimum locking Ø mm	Tightness kg	Eye Ø mm	ORDER BY BOX
18.037.01	4.8	200	3.5	22	5.2	100
18.037.02	7.8	200	4	55	6.5	100
18.037.03	7.8	300	4	55	6.5	100



Nylon strap with plate

Suitable for cabling, includes over-writable pad with felt-tip pen suitable for the identification of cables or pipes.

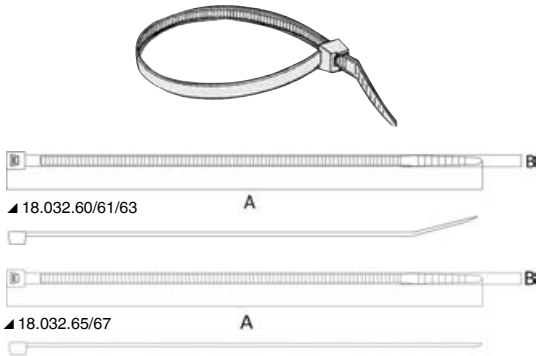
Code	Width mm	Ø locking mm		Minimum tightness kg	Length mm	ORDER BY BOX
		minimum	maximum			
18.038.01	2.5	1	20	8.1	110	100
18.038.02	2.5	1	52	8.1	210	100



Reusable clamps

Made of 6/6 nylon. Push the hook on the rack and the clamp will open.
The clamp can be used over again.

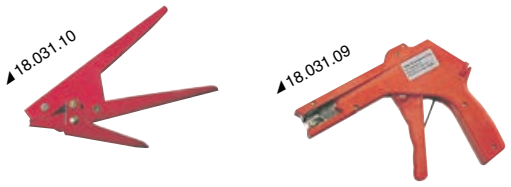
Code	A mm	B mm	Bundle Ø max mm	Strength kg	Colour	ORDER BY BOX
18.032.50	200	7.5	50	22.4	white	100
18.032.52	350	7.5	100	22.4	white	100



Heat-resistant clamps for high temperatures

Made of nylon and special additives, these clamps resist up to 125°C continuous and to 145°C for short periods. Greenish neutral colour depending on their heat resistance.

Code	A mm	B mm	Bundle max Ø mm	Strength kg	ORDER BY BOX
18.032.60	98	2.5	21	8.16	100
18.032.61	140	3.5	35	18.34	100
18.032.63	200	3.5	50	18.34	100
18.032.65	290	4.5	79	22.44	100
18.032.67	365	7.5	100	55.08	100



Strap cutter

Tool for tensioning and cutting straps.

Code	Version	Material	For clamps
18.031.10	Professional	Metal	4.8 mm to 9 mm
18.031.09	Automatic	Plastic body and stainless steel mechanical parts	2.2 mm to 4.8 mm

► Drain plugs, cockpit drains

Water drain plug

Fitted with screw-mounting flange.Suitable for the transom or bottom.

Code	Material	Ø hole mm	Flange mm
18.537.00	chromed brass	20	55

Expandable water drain plug

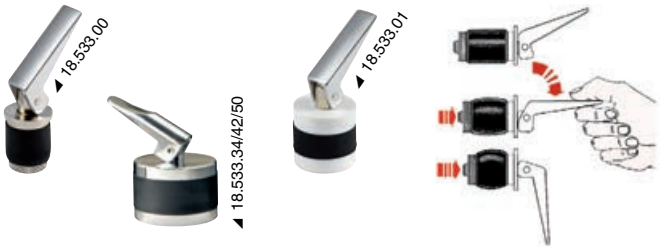
18.540.00 Made of **stainless steel** with **neoprene** rubber seal. For all types of bushings. Locking system by means of beam rotation. Preferable to eccentric models (18.539.00/535.00 and 18.533.00), to be used in confined spaces or where a slower but more secure locking is required, 22-mm Ø.

Expandable lever-operated water drain plug

Made of **stainless steel**, with neoprene tight; suitable for all types of bushing, Ø 22mm.

Code	Version	Ø mm
18.539.00	Standard	22
18.539.01	With SS chain	22

Lever-operated expansion drain plug



Body and lever made of **chromed brass**.

Code	Body material	Ø mm	Plastic bushings	Brass bushings
18.533.00	Metal	22	**18.736.00; 18.836.00**	**18.531.00**
18.533.01	Plastic	34	-	**18.531.35**
18.533.34	Metal	34	-	**18.531.35**
18.533.42	Metal	42	-	**18.531.42**
18.533.50	Metal	50	-	**18.531.50**

Expandable lever-operated water drain plug (nylon lever)

Made of **rubber and nylon**.

Code	Description	Color	Internal Ø mm	Length mm
18.535.00	Plug with bushing 18.736.00	Black	22	78
18.635.00	Plug with bushing 18.836.00	White	22	78
18.535.01*	Expandable plug, only	Black	22	-
18.635.01*	Expandable plug, only	White	22	-

* *Matching bushings: 18.736.00; 18.736.01; 18.736.02; 18.836.00; 18.836.01; 18.836.02*

Cam expansion drain plugs

Suitable for draining water from the cockpit, fish baskets, fish bait cases; rotating adjustable pressure; brass cam, stainless steel washers, neoprene body.

Code	For holes mm
18.532.00	9/10
18.532.01	12/13
18.532.04	13.5/14.5
18.532.03	15/16
18.532.05	17/18
18.532.02	18.5/19.5

Water drain plugs

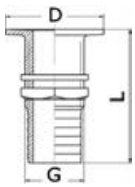
Fitted with bushing. press to install.

Code	Material	Color	Ø mm
18.536.00	nylon	black	20
18.636.00	nylon	white	20

Water drain bushing to couple with expansion plugs

Made of nylon.

Colour		⟷ mm	Bore Ø mm
white	black		
18.836.01	**18.736.01**	150	22.7
18.836.02	**18.736.02**	150 (30 with 19-mm Ø hose adaptor)	22.7
18.836.00	**18.736.00**	78	22.7



Bushing for expansion plugs

Made of chromed brass with hose adaptor.

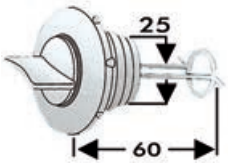
Code	⟷ mm			Bore Ø mm
	D	L	G	
18.531.35	65	80	1"1/4	35
18.531.42	65	82	1"1/2	42
18.531.50	80	99	2"	50

Neoprene self-draining NAUTISPEED plug

Suitable for transoms, it automatically opens and drains the boat hull once a preset speed is reached.

Code	Minimum speed
18.343.00	30 km/h

Water drain plug



Made of nylon, fitted with plug safety system, press to mount by means of the bushing included, Ø to be bored on the boat: 25mm. Colour: white.

Code	ORDER BY BOX
18.346.10	10

Drain plug fitted with valve for rubber dinghies

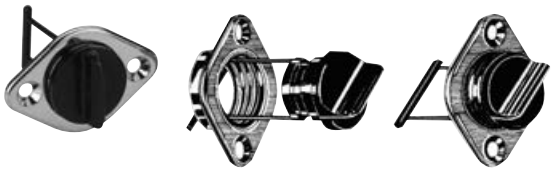
Nylon bushing, **rubber** valve and plug.

Code	Ø mm
18.534.00	36

Cam expansion floating drain plug

Suitable to drain water from cockpits, fish baskets, fish bait cases. Rotating adjustable pressure. Neoprene body and nylon frame. **3-pcs kit.**

Code	Ø mm
18.532.10	12 (1/2") + 16 (5/8") + 19 (3/4")



Drain plug

Made of **chromed brass**, fitted with nylon plug and special locking plug device, remains attached even after been unscrewed.

Code	Outside mm	Recess bore Ø mm	Centre distance bore mm	Water passage bore Ø mm
18.538.00	52.5x35.5	25	38	17.5
18.538.01	59.5x40	35	45.5	25

Water drain plug

Made of nylon, with safety lock.

Code	External size mm	Bore Foro Ø mm	Centre distance mm	Passage mm
18.346.12	50x34	24	38	17

Bilge drain plug

AISI 316 **Made of mirror polished AISI316 stainless steel.** Plug safety system.

Code	Flange mm	Hole Ø mm
18.538.20	43x64	32

◢ 18.538.40

◢ 18.538.40

◢ 18.538.41

Drain plug for large flows

Made of black nylon, with plug safety device.

Code	External Ø mm	Bore Ø mm	Passage Ø mm
18.538.40	67x58 (blunting)	40	28.5
18.538.41	79x70 (blunting)	50	44

Drain plugs

AISI 316 Made of **AISI 316 stainless steel**, includes **inner safety cable**.

Code	Version	Flange Ø mm	Recess hole Ø mm
18.541.00	with manual "T" opening	55	29
18.542.00	with screwdriver opening	55	29

Bilge drain plugs

AISI 316 **Made of mirror polished AISI 316 stainless steel.**

Code	Flange Ø mm	Length mm	Hose adaptor mm
18.347.00	48	53	24
18.347.10	60	69	38

Skin fitting fitted with chromed brass hose

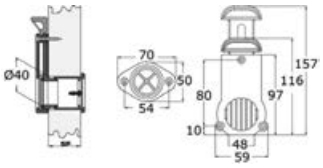
Designed on purpose to be used with brass and rubber drain plugs.

Code	Bore Ø mm	For plugs	Outer Ø mm	Total length under the head mm	Hose adaptor mm
18.531.00	22.5	18.533.00; 18.539.00; 18.540.00	28	100	25

Drain plug with valve

Made in grey nylon

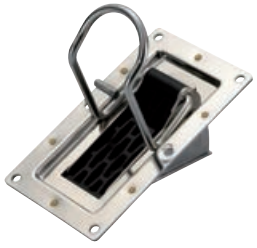
Code	Suitable for thickness mm
18.534.20	38/63



Internal-mounting bailer

Made in stainless steel.

Code	⟷			g
	dimensions mm	edgewise size mm	passage mm²	
18.546.00	134 x 78	110 x 54	645	310



► Tanks, jerrycans and funnels

Fuel jerrycans

Made of **mirror polished stainless steel**, includes fuel filler.

Code	litre size	⟷ mm
18.348.20	20	350x170x473

OSCULATI

Heavy Duty tanks with improved nozzle

Very heavy and rugged tanks. The nozzle has the following characteristics:
- Lid with kid-safe closure.
- Nozzle inside the tank when not in use.
- Closure valve to overturn the tank and start delivery only when the nozzle is stuck into the deck plug.
- Nozzle with vent for regular and spray-free flow.

Code	Capacity l	Height mm	Width mm	Depth mm	kg	Colour
18.360.05	5	240	260	130	0.5	Red
18.360.10	10	345	295	165	0.85	Red
18.360.20	20	480	330	185	1.6	Red

"Eltex" fuel jerrycans

Heavy-duty jerrycan, dot not ooze or deform; includes swivelling pouring spout.

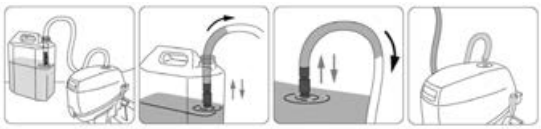
Code	litre size
18.350.10	10
18.350.22	20 (weight kg 1,1)

OSCULATI

Manual siphon pump

This siphon pump easily transfers any liquid (water, diesel, petrol, etc.) from a container to another preventing dirt and fatigue.
Place the pump into the container with the liquid and the end of its hose into the transfer container; take care to place the second container at a slightly lower level. Stir the pump in the liquid to let it rise up to the hose gooseneck and make it fall into the other container.
Disconnect the pump from the hose to stop the flow.

Made of copper and supplied with 1.7-m hose. No electricity required, fast, safe and clean.



Part Number	minimum Ø hose mm	Ø hose mm	Flow l/min
52.739.00	14	15	10
52.739.01	18	19	15

Anti-splash fuel funnel, American model

18.202.00 Made of white/red PVC; fitted with thin filter and splash-proof edge; can be fitted into any tank.

Special anti-splash funnel

Rigid and flexible double pipe. Made of **orange plastic, floating**, it includes fuel filter.

Code	Ø neck mm
18.201.00	142

Special "Mister" filtering funnel

It separates water from petrol or from diesel fuel. With the latest fuel injection engines, water in the fuel causes very serious damages. Mister Funnel special **stainless steel/teflon** 0.005-inch filter is able to solve this problem. Also used by US war tanks M60 and M1.

Code	Version	Ø mm	Height mm	passage l/min
18.204.01	medium	216	254	19.3
18.204.02*	large	216	254	46.2

* *Equipped with grounding system to avoid electrostatic discharges.*

Special filtering funnel

Water in the fuel can damage todays injection engines.
This special 0,005-inch Teflon filter separates water from petrol or gasoil to prevent troubles.

Code	Version	Ø mm	Height mm	Flow l/min
18.204.10	Standard	216	254	19

Polyetylene soft carrying containers for petrol (ADR type-tested)

Fitted with tyres. Suitable for travelling on any surface. The rounded structure with reinforced ribs makes this product very sturdy. Fill plug with built-in vent and safety ball valve. These containes can be transported by car both horizontally and vertically. ADR allow transport of 4 x 55-l containers or 3 x 110-l container per car.

Fitted with:
- Aluminium manual revolving pump
- 3-m hose for petrol
- Manual stop nozzle.

Also available with 12V electric pump on request.

◢ 18.405.05

◢ 18.405.10

Code	Litres	⟷ mm			kg	OPTIONAL ATEX litre counter
		Width	Depth	Height		
18.405.05	55	460	360	900	9	**18.405.90**
18.405.10	110	460	440	1100	13	**18.405.90**

◢ 18.405.90

Portable pumping station for petrol (ADR type-tested)

Portable petrol tank made of top-quality carbon steel, watertight welded, with outer protection frame. It can be regularly transported on road in compliance with the ADR type-testing regulations.
Fitted with:
1) Oven-fire painted metal **cabinet** with safety lock fastened to the tank and including:
- 12 V 55 l/min ATEX electric pump for unleaded petrol
- 5-m hose
- ATEX automatic stop gun for unleaded petrol.
2) ATEX **litre counter** with resettable partial totalizer and:
- Brass loading fitting with 3" lockable quick joint
- Lifting eyebolts for hoisting (even in full load conditions)
- Outer protection frame for forklift handling
- Level indicator.
3) Supporting **documents**: CE use and maintenance handbook.

Code	Litres	⟷ mm			kg
		Width	Depth	Height	
18.409.25	258	770	770+295(cabinet)	855	124

► BOMAR hatches and portlights

BOMAR Contour low profile hatch

CE Made of **white epoxy-coated aluminium** and fitted with smoked tempered glass lens. CE approved. **Hidden** hinges on the profile, adjustable dogs with outside opening option and locked vent position.

Code	Opening mm	Cut size mm	Outside mm	OPTIONAL internal trimming ring	OPTIONAL flyscreen	Overhang mm
19.720.01	248x248	275x275	343x343	**19.720.07**	**19.720.15**	24
19.720.02	315x445	340x470	410x540	**19.720.08**	**19.720.16**	24
19.720.03	395x395	420x420	491x491	**19.720.09**	**19.720.17**	24
19.720.04	445x445	470x470	540x540	**19.720.10**	**19.720.18**	24
19.720.05	490x490	515x515	584x584	**19.720.11**	**19.720.19**	24
19.720.06	610x610	640x640	708x708	-	**19.720.30**	24

19.715.02 *Spare kit, external handle*

BOMAR Contour low profile round hatch

CE Made of **white epoxy-coated aluminium** and fitted with hinged opening and very sturdy acrylic lens. CE approved.

Code	Opening mm	Cut size mm	Outside mm	OPTIONAL internal trimming ring	OPTIONAL Flyscreen	Overhang mm
19.724.01	395	420	492	**19.724.12**	**19.724.17**	24
19.724.02	493	518	588	**19.724.13**	**19.724.18**	24

19.715.02 *Spare kit, external handle*

External handle kit for BOMAR Contour hatches

Please, order 1 kit for each handle of the hatch.

Code	For hatches
19.715.02	**19.720.01; 19.720.02; 19.720.03; 19.720.04; 19.720.05; 19.720.06; 19.724.01; 19.724.02**

BOMAR Voyager hatch

AISI 316

Fitted with **white coated aluminium** base, **mirror polished AISI316 stainless steel** hatch, **smoked polycarbonate** lens.

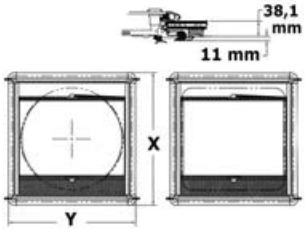
Code	Opening mm	Cut size mm	Outside mm	OPTIONAL trimming ring	Version
19.718.02	507	516	566	**19.724.13**	round

BOMAR Seabreezer sunshade/flyscreen

Easy to install in a matter of minutes with as few as 4 screws that also serve as trimming ring for hatches.

Code	Compatible with hatch models	Version	X mm	Y mm
19.717.22	**19.720.02**	Rectangular	577	478
19.717.24	**19.720.04**	Rectangular	609	577
19.718.21	**19.724.01**	Round	609	577

*They may also be used with **any hatch with size X and Y***



BOMAR Flush hatches

100% **polycarbonate**. Snap safety handles, locking from the inside, smoked polycarbonate lens. Fitted with internal finish counterflange.

Code	Overhang mm	Colour	Outside mm	Cut size mm	Net light mm
19.910.10BI	25	White	304x302	262x262	230x230
19.910.10NE	25	Black	304x302	262x262	230x230
19.927.10BI	25	White	394x521	330x454	318x445
19.927.10NE	25	Black	394x521	330x454	318x445
19.966.10BI	25	White	480x480	428x428	414x414
19.966.10NE	25	Black	480x480	428x428	414x414
19.995.10BI	25	White	570x570	501x501	489x489
19.995.10NE	25	Black	570x570	501x501	489x489

BOMAR Flagship portlight

Made of mirror-polished AISI316 stainless steel. Features: hidden external screws; water drain deep angle; fitted with trimming ring and flyscreen; adjustable wing nut locking (no overhanging parts); smoked acrylic lens; CE approved for area 1 category 1; special mounting system: a single and fast move is enough to fit the portlight into the trimming ring, which means labour cost saving for the shipyard.

Code	Outside mm	Cut size mm	Net light mm	Hull thickness mm
19.229.00	460x200	415x155	375x115	6/10
19.228.96	457x197	432x171	352x92	6/22
19.228.99	495x219	470x194	391x114	6/22

BOMAR Flagship oval portlight

CE

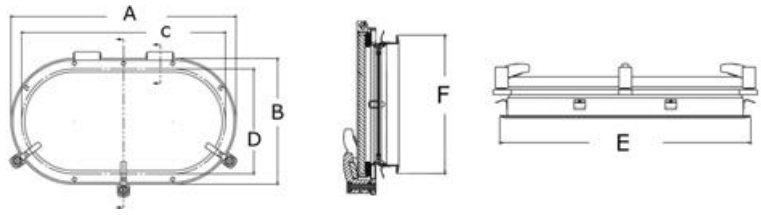
Made of mirror-polished AISI316 stainless steel. Features: hidden external screws; deep water drain angle; fitted with trimming ring and flyscreen; adjustable wing nut locking (no overhanging parts); smoked acrylic lens; CE-approved for area 1 category 1; special mounting system: a single and fast move is enough to fit the portlight into the trimming ring, which means labour cost saving for the shipyard.

Code	Outside mm	Cut mm	Net light mm	Bulwark thickness mm
19.224.01	400x200	375x175	295x95	10/22
19.224.03	438x210	412x184	333x105	10/22

BOMAR Premier portlight

Made of 100% mirror-polished **AISI316 stainless steel**, very accurate finishing. Features: hidden external screws, fitted with external trimming ring, removable stainless steel flyscreen, adjustable precision-cast wing nuts, high-resistance polycarbonate lens, CE approved for area 1 category 1.

Code	Type	Outside		Cut size		Outer trimming ring		Hull thickness mm
		A mm	B mm	C mm	D mm	E mm	F mm	
19.222.01	OVAL	393	221	356	184	375	203	37.8



SCM elliptical portlight

AISI 316

CE

Made of **mirror-polished AISI316 stainless steel**, trimming ring with hidden screws. 10-mm plexiglas flyscreen. Smoked acrylic lens.

Code	Outside mm	Cut size mm	Net light mm	Hall thickness mm	CE approval	
					area	category
19.229.01	510x250	460x200	420x160	20/25	(2)	1

SCM oval portlight

AISI 316

CE

Made of **mirror-polished AISI316 stainless steel**. Fitted with Perspex trimming ring.

Code	Outside mm	Cut size mm	Net light mm	Hull thickness mm	CE approval		Colour	Thickness mm
					area	category		
19.230.00	410x210	360x160	320x120	20/25	2	1	Bronzed	10
19.230.01	460x260	410x210	370x170	20/25	2	1	Bronzed	10

BOMAR elliptical nylon portlight

CE

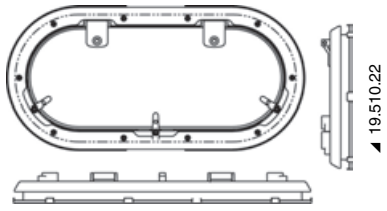
Fitted with flyscreen, high-resistant polycarbonate lens and **stainless steel** bolts and screws.

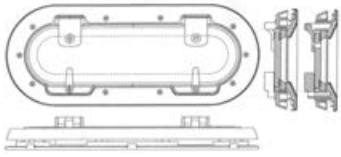
Code	Net light mm	Outside mm	Cut mm	Colour	Hull thickness mm
19.515.00BI	84x352	146x415	90x359	White	28
19.515.00NE	84x352	146x415	90x359	Black	28
19.616.00BI	150x406	203x470	165x419	White	38
19.616.00NE	150x406	203x470	165x419	Black	38

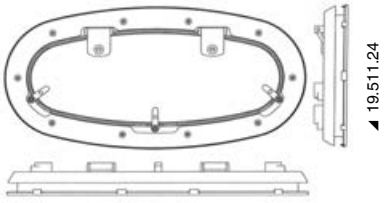
BOMAR Flagship opening portlight

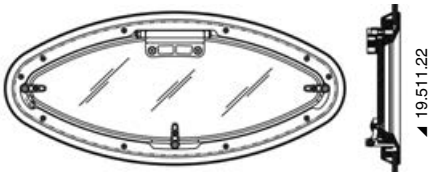
CE **Nylon** body, external finishing ring and flyscreen. Adjustable stops. Smoked acrylic lens. Mounting with **hidden** screws. 6- to 35-mm hull thickness. CE-approved.

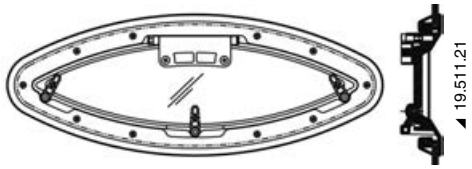
Code	Shape	Outside mm	Cut mm	Colour	BOMAR code
19.510.21	oval	141x357	116x332	White	614
19.510.22	oval	216x444	191x419	White	620
19.511.21	elliptical	160x425	135x400	White	615
19.511.22	elliptical	209x468	184x443	White	618
19.511.24	elliptical	418x200	395x174	White	619









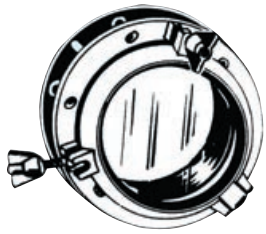


► Plastic portlights

Circolare opening portlight

Made of nylon, elegant and functional shape, fitted with plexiglas lens.

Code	Colour	Locking	Net light Ø mm	External size mm	Cut size mm	Hull thickness mm
19.750.01BI	White	Wing nut	135	220	165	6/35
19.750.01NE	Black	Wing nut	135	220	165	6/35
19.750.02BI	White	Wing nut	185	270	215	6/35
19.750.02NE	Black	Wing nut	185	270	215	6/35
19.750.03BI	White	Wing nut	235	320	265	6/35
19.750.03NE	Black	Wing nut	235	320	265	6/35



Nylon rectangular portlight

100% stainless, fitted with **nylon trimming ring**. Built-in water drainer.

Code	Colour	Lens	Version	Net light mm	External size mm	Cut size mm	Hull thickness mm
19.696.00BI	White	Plexiglass	Opening	320x120	400x200	345x155	6/35

► LEWMAR hatches and portlights

Made of anodized aluminium and fitted with smoked glass lenses, 180° opening, self-locking in any position with their built-in friction lever.
Features: - Internal and external opening handles already installed (where fitted). - Lock vent position. - Anti-intrusion safety lock. - Lenses, seals, handles and friction levers can be replaced.
Custom hatches made upon request, quantity TBA.

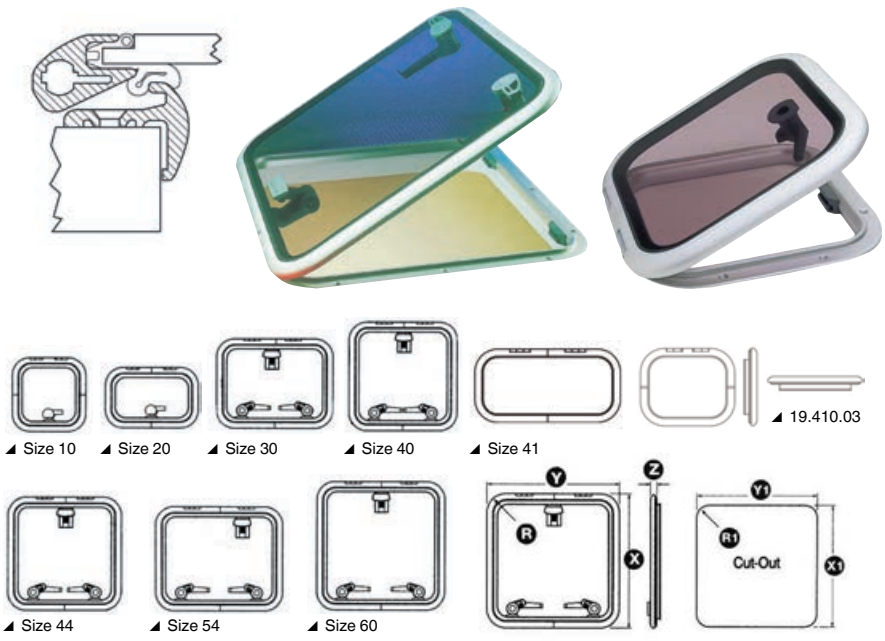
LEWMAR Low Profile hatch

LEWMAR

CE The profile sticks out as little as 25 mm from the deck. CE-approved for AREA 2. External handles allow the hatch to be opened from on the deck, friction levers to hold the lid open in any position up to 95°. Anodized aluminium frame for corrosion resistance and curved upper frame profile for strength. Large quantities available in white or mirror-polished aluminium finish.

Version with		Model	Lower frame mm	⟷ esternal dimensions mm				⟷ cut-out dimensions (depending on trimming rings) mm			kg	Acrilic thickness mm	Trimming ring + flyscreen moscquito
self-supporting lid	stay			X	Y	Z	R	X1	Y1	R1			
19.410.03	-	03	15	246	301	25	72.5	176	231	42.5	1.6	8	-
19.410.10	-	10	15	330	330	25	72.5	260	260	42.5	2.2	8	-
19.410.20	-	20	15	272	417	25	72.5	202	347	42.5	2.3	8	**19.413.20**
19.410.30	**19.411.30**	30	15	397	527	25	72.5	327	457	42.5	3.9	8	**19.413.30**
19.410.40	-	40	15	491	491	25	72.5	421	421	42.5	4.6	8	**19.413.40**
19.410.41	-	41	15	246	491	25	72.5	176	421	42.5	2.5	8	-
19.410.44	**19.411.44**	44	15	512	512	25	72.5	442	442	42.5	4.8	8	**19.413.44**
19.410.54	-	54	15	462	577	25	72.5	392	507	42.5	4.9	8	**19.413.54**
19.410.60	**19.411.60**	60	15	577	577	25	72.5	507	507	42.5	6.4	10	**19.413.60**

19.903.08 *Hatch stay arm and supports*

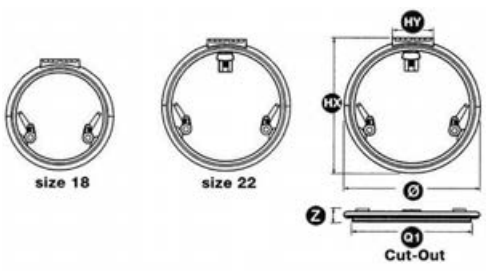


LEWMAR

LEWMAR Low Profile round hatch series

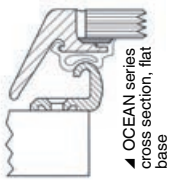
CE The profile sticks out as little as 25 mm from the deck. CE-approved for AREA 2.

Code	Model	Lower frame mm	⟷ external dimensions mm			⟷ cut-out dimensions mm (depending on trimming rings) mm		kg	Acrilic thickness mm	Trimming ring + flyscreen moscquito
			Ø	Z	HX	HY	Q1			
19.410.18	18	15	490	25	493	141	420	3.8	8	**19.413.18**
19.410.22	22	15	588	25	591	173	518	5.8	10	**19.413.22**



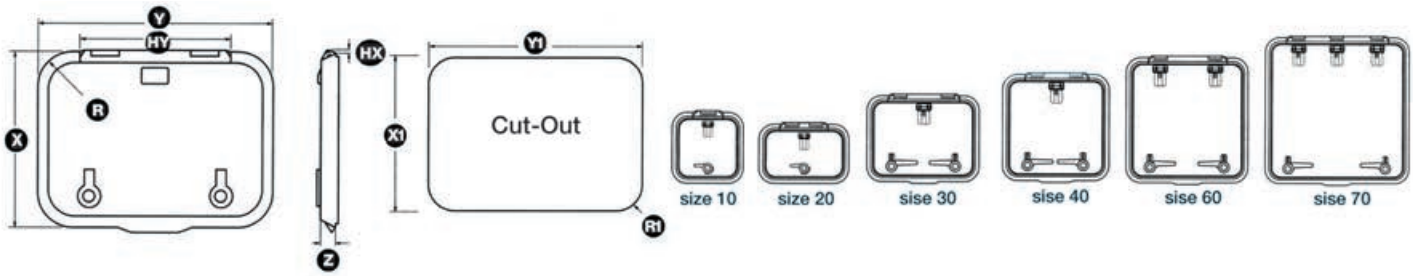
LEWMAR Ocean hatch

CE Classic style, rugged construction. For many years now it has been fitted to thousands of boats all around the world. CE-approved for AREA 2. Model with flat base.



Code	Model	external dimensions mm						cut-out dimensions (depending on trimming rings) mm			kg	Acrilic thickness mm	Trimming ring moscquito
		X	Y	Z	R	HY	HX	X1	Y1	R1			
19.420.10	10	324	324	39.5	75	138	5	255	255	40	2.26	10	-
19.420.20	20	266	411	39.5	69	225	5	197	342	34	2.74	10	**19.413.21**
19.420.30	30	391	521	39.5	75	335	5	322	452	40	4.5	10	**19.413.30**
19.420.40	40	485	485	39.5	75	299	5	416	416	40	4.76	10	**19.413.40**
19.420.60	60	574	574	43	76	367	4	502	502	40	10.8	12	**19.413.60**
19.420.70	70	694	694	43	76	487	4	622	622	40	13.2	12	**19.413.70**

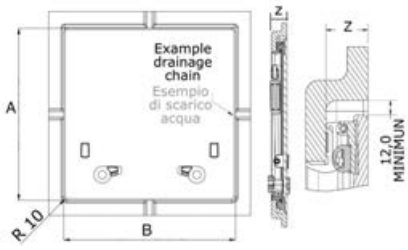
19.903.08 *Hatch stay with supportsSeal bracket for hatch door equipped with supports*



LEWMAR Flush Hatch

CE It requires a special recess to be installed into the deck to receive the hatch. Clean and simple look, no protruding parts, space-wise use of deck surface.
Main features:
- **No visible frame**: the black acrylic panel is all that can be seen on deck.
- **Very thick self-supporting plexiglass lid.**
- 90° opening **stay**, self-locking in any position.
- Smoked lens available upon request.
- Exterior handle for use as **escape hatch**.
- CE-approved for 2A area.

Compatible with LEWMAR flyscreens, trimming rings and frames.



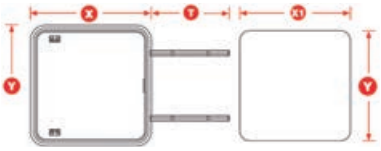
Code	Model	Thickness for recess fit Z mm	external AxB mm	cut size mm	kg	Acrylic thickness mm	Finishing counteflange + mosquito net
19.440.10	10	31	330x330	260x260	2.6	12	-
19.440.20	20	31	272x417	202x347	3.1	12	**19.413.20**
19.440.44	44	31	512x512	442x442	5.8	12	**19.413.44**
19.440.60	60	31	577x577	507x507	6.7	15	**19.413.60**
19.440.70	70	32-34	697x697	627x627	10.2	15	**19.413.70**

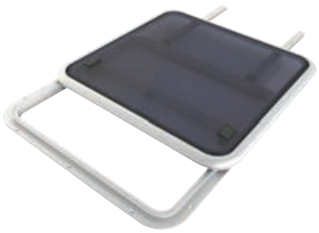
19.903.08 *Seal bracket for hatch door equipped with supports*

LEWMAR Pilot Hatch

Sliding hatch designed for use on the wheelhouse and ensuring ventilation and radiation. For flat mounting. The styling complements the Low Profile and Medium Profile Hatch Ranges.

Code	Model	External dimension X<->Y mm	Cut-off dimension x1 <->y1 mm	Track length T mm	Lower frame flange mm
19.450.60	60	581-577	507-507	373	15
19.450.78	78	844-790	770-720	638	15





LEWMAR

LEWMAR trimming ring and flyscreen

White colour (ivory color available on request).

Code	For hatch model	Max hull thickness with series mm		Min hull thickness with series mm		Hutch models
		Low profile	Ocean	Low profile	Ocean	
19.413.18	18	62	-	15	-	19.410.18
19.413.20	20 Low profile	62	-	15	-	19.410.20
19.413.21	20 Ocean	-	72	-	25	19.420.20
19.413.22	22	62	-	15	-	19.410.22
19.413.30	30	62	72	15	25	19.410.30; 19.411.30; 19.420.30
19.413.40	40	62	72	15	25	19.410.40; 19.420.40
19.413.44	44	62	-	15	-	19.410.44; 19.411.44; 19.440.44
19.413.54	54	62	-	15	-	19.410.54
19.413.60	60	62	72	15	25	19.410.60; 19.411.60; 19.420.60; 19.440.60
19.413.70	70	-	72	-	25	19.420.70

LEWMAR Standard portlight

LEWMAR

EASY TO INSTALL

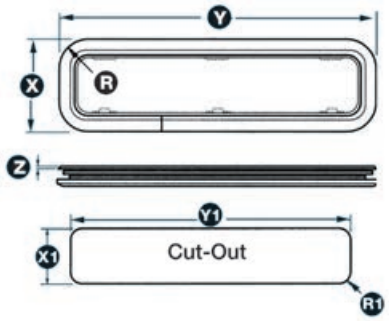
CE

Portlight range with high quality finish and materials. Fitted with built-in friction levers to leave the portlight open in any position, quick and safe locking. Supplied with **white ABS trimming ring** (ivory colour available upon request), it includes **mounting screws and flyscreen**, smoked glass. Easy to install by a single person by fastening the trimming ring into the threaded bores. **CE-approved for AREA 2.**

Code	Model	⟷ external mm				⟷ cut size mm			kg	Acrilyc thickness mm
		X	Y	Z	R	X1	Y1	R1		
19.430.00	0	176	323	4	62	156	303	52	1.1	8
19.430.10	1	191	367	4	62	171	347	52	1.3	8
19.430.18	1RE	191	367	4	95	171	347	85.5	1.3	8
19.430.20	2	176	425	4	62	156	405	52	1.4	8
19.430.30	3	191	449	4	62	171	429	52	1.7	10
19.430.40	4	191	646	4	62	171	637	52	2.4	8

Cerniere frizionate
non soggette a corrosione
Friction hinges
not subject to corrosion

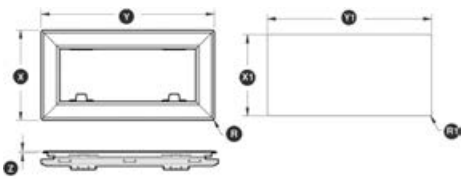
Flange interna/esterna in alluminio resistenti alla corrosione
Internal/external flanges corrosion-resistant aluminum



Maniglie rapide
non risentono delle vibrazioni
Rapid handles
are not affected by vibrations

Il design del profilo previene l'entrata dell'acqua anche su superfici inclinate
The profile design prevents water from entering even on sloping surfaces

LEWMAR



LEWMAR Flush portlights

EASY TO INSTALL

CE

A series of porthlights meeting the needs for design and modern look. Built-in friction hinges and snap levers for quick and safe locking. Matt black powder-coated anodized aluminium frame for mounting on fiberglass and plexiglass. Fast and simple installation to be made by a single operator. The external threaded frame matches the internal trimming ring by means of thru screws.

Code	Model	⟷ external mm				⟷ cut-out mm			kg	Acrylic thickness mm	Approval
		X	Y	Z	R	X1	Y1	R1			
19.430.04	0	175	322	4	5	156	303	5	1.3	12	CE Area 2
19.430.14	1	190	366	4	5	171	347	5	1.6	12	CE Area 2
19.430.34	3	190	448	4	5	171	429	5	2	12	CE Area 2
19.430.44	4	190	645	4	5	171	626	5	2.8	12	CE Area 2
19.430.64	6	200	490	4	5	181	471	5	2.2	-	CE Area 2

LEWMAR AISI316 stainless steel portlight

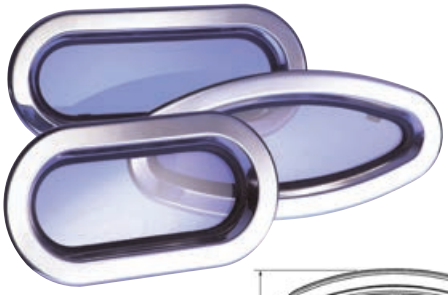
LEWMAR

AISI 316

CE

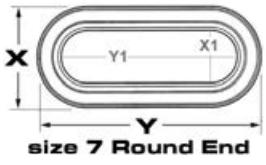
Fitted with friction hinges and quick-locking handles. The handles and hinges leave the lens clear of obstructions, giving it an uncluttered view and clean modern look.. CE-approved for areas 1B and 2A.
]To be installed on 9-mm to 30-mm thick surfaces. Supplied with 20 x M5 studs for 17/2-mm thick surfaces. ABS internal trimming ring (chromed for size 8) and removable flyscreen.

Code	Model	External dimension mm			Cut-out dimension mm		kg	Acrylic glass thickness mm
		X	Y	Thickness	X1	Y1		
19.430.80	8	196	452	4	176	432	1.9	10
19.430.82	1 RE	191	367	4	171	347	1.7	10
19.430.84	7 RE	191	425	4	171	405	1.9	10



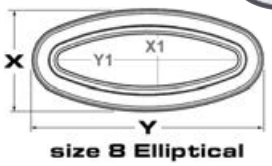
size 1 Round End

19.430.82



size 7 Round End

19.430.84



size 8 Elliptical

19.430.80

LEWMAR AISI316 stainless steel round portlight

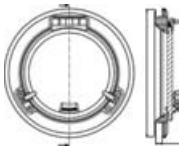
LEWMAR

AISI 316

CE

Supplied with **trimming ring made of chromed ABS, mounting screws** and smoked lens. Fast and simple installation by means of a ring nut with threaded bores, to be made by a single operator. 180° opening. **CE-approved for category B Area 1.**

Code	Outside mm	Cut size mm	Light mm	For hull thickness
19.431.25	250	230	160	8 to 24 mm
19.431.30	300	250	200	8 to 24 mm



Max New Light anti-scratch restorer for polycarbonate surfaces

OSCULATI

Specific product to restore worn-out, scratched, opacified and yellowed portlights, hatches, Plexiglas or polycarbonate windscreens to their original look. Sprayed on the worn-out surface, it creates a ultra-resistant, ultra-adhering and UV-resistant film that restores the original polish. It doesn't alter the chemical structure or mechanical properties of the substrate. Three-component product to be sprayed (spray nozzle included).

Code	Description	Surface to be treated
19.117.01	Plexiglass/polycarbonate restorer	5/6 m^2

LEWMAR vent

LEWMAR

Made of reinforced plastic, it ensures air circulation and prevents water seepage. It can be fitted to the acrylic lens of hatches or to the deck. Universal model complying with the CE ISO 12216:2003 standards.

Code	Outer Ø mm	Recess bore mm
19.041.01	170	76

LEWMAR Low Profile hatch spare parts

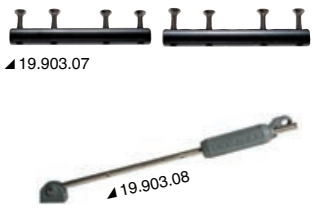
LEWMAR

For hatches manufactured from 1998 on (see code A399XX03, 359XX503, etc. on plexiglass lens).

Hatch model	Friction lever	Seal	Hinge kit	Hinge cover (10pcs)	RIGHT+LEFT locking lever kit	Plexiglass*	Frame coupling rod	Hatch stay
00	-	19.901.00	19.903.05	19.903.06	19.910.02**	-	19.903.07	-
03	-	19.901.03	19.903.05	19.903.06	19.910.02**	-	19.903.07	-
10	-	19.901.10	19.903.05	19.903.06	19.910.02**	19.902.10	19.903.07	-
18	-	19.901.18	19.903.05	19.903.06	19.910.11	-	-	-
20	-	19.901.20	19.903.05	19.903.06	19.910.02**	19.902.20	19.903.07	-
22	19.903.01	19.901.22	19.903.05	19.903.06	19.910.11	-	-	-
30	19.903.01	19.901.30	19.903.05	19.903.06	19.910.11	19.902.30	19.903.07	19.903.08
40	19.903.01	19.901.40	19.903.05	19.903.06	19.910.11	19.902.40	19.903.07	19.903.08
44	19.903.01	19.901.44	19.903.05	19.903.06	19.910.11	19.902.44	19.903.07	19.903.08
50	19.903.01	19.901.50	19.903.05	19.903.06	19.910.11	-	19.903.07	19.903.08
54	19.903.01	19.901.54	19.903.05	19.903.06	19.910.11	-	19.903.07	19.903.08
60	19.903.01	19.901.60	19.903.05	19.903.06	19.910.11	19.902.60	19.903.07	19.903.08
65	19.903.01	19.901.65	19.903.05	19.903.06	19.910.11	-	19.903.07	19.903.08

* *Plexiglas with seal and handle for hatches with friction lever. Models without item codes aare vailable upon request.*

** **19.910.02** *It only contains the left lever*



LEWMAR Medium Profile hatch spare parts

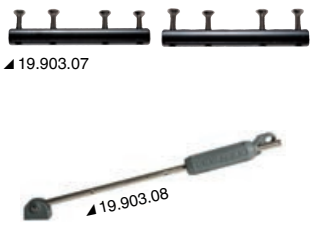
LEWMAR

For hatches manufactured from 1998 on (see code A399XX02, 359XX503, etc. on plexiglass lens).

Hatch model	Friction lever	Seal*	Hinge kit	Hinge cover (10pcs)	RIGHT+LEFT closing lever kit	Frame connecting rod	Hatch stay
30	19.903.01	19.911.30	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
40	19.903.01	19.911.40	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
44	19.903.01	19.911.44	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
50	19.903.01	-	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
54	19.903.01	19.911.54	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
60	19.903.01	19.911.60	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
65	19.903.01	-	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
70	19.903.01	-	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08
77	19.903.01	-	19.903.05	19.903.06	19.910.11	19.903.07	19.903.08

* ***Seals*** *for models without item code are available upon request*

Plexiglass *upon request*



LEWMAR Ocean hatch spare parts

LEWMAR

Ocean hatch spare parts. Since 1991.

Hatch model	Friction lever	Seal*	RIGHT+LEFT closing lever kit	Hatch stay
10	**19.903.02**	-	**19.910.02****	-
20	**19.903.02**	**19.921.20**	**19.910.02****	-
30	**19.903.03**	**19.921.30**	**19.910.11**	**19.903.08**
40	**19.903.03**	-	**19.910.11**	**19.903.08**
44	**19.903.04**	-	**19.910.11**	**19.903.08**
50	**19.903.04**	**19.921.50**	**19.910.11**	**19.903.08**
54	**19.903.04**	-	**19.910.11**	**19.903.08**
60	**19.903.04**	**19.921.60**	**19.910.11**	**19.903.08**
70	**19.903.04**	**19.921.70**	**19.910.11**	**19.903.08**
77	**19.903.04**	-	**19.910.11**	**19.903.08**

* ***Seals*** *for models without item code are available upon request;*
Hinge kit *available upon request;*
Spare plexiglas *panel no longer manufactured*
** **19.910.02** *It only contains the left lever*

LEWMAR Standard portlight spare parts

LEWMAR

For standard portlights:
- **New series**: manufactured from 1997 on (recognizable by the snap locking lever).
- **Old series**: manufactured from 1982 up to 1998 (recognizable by the **L**-shaped locking lever)

Portlight model	For standard portlight NEW SERIES*					For standard portlight OLD SERIES**		
	Inner plastic frame	Seal	Right+left locking lever	Plexiglass lens	Flyscreen	Seal	Right locking lever	Left locking lever
0	**19.933.00**	**19.931.00**	**19.910.00**	**19.932.00**	**19.433.01**	**19.912.00**	**19.910.08**	**19.910.09**
1	**19.933.10**	**19.931.10**	**19.910.00**	**19.932.10**	**19.433.11**	**19.912.10**	**19.910.08**	**19.910.09**
1 RE	-	-	**19.910.00**	-	**19.433.12**	-	-	-
2	**19.933.20**	**19.931.20**	**19.910.00**	**19.932.20**	**19.433.21**	**19.912.20**	**19.910.08**	**19.910.09**
3	-	**19.931.30**	**19.910.00**	**19.932.30**	**19.433.31**	**19.912.30**	**19.910.08**	**19.910.09**
4	**19.933.40**	**19.931.40**	**19.910.00**	**19.932.40**	**19.433.41**	**19.912.40**	**19.910.08**	**19.910.09**
4 RIGHT	-	**19.931.45**	**19.910.00**	-	-	**19.912.45**	**19.910.08**	**19.910.09**
4 LEFT	-	**19.931.45**	**19.910.00**	-	-	**19.912.45**	**19.910.08**	**19.910.09**

* *NEW SERIES:* ***Seals, frames, flyscreens and plexiglas lens*** *portlights without item codes are available upon request*
** *OLD SERIES:* ***Seals*** *for portlights without item codes are available upon request;* ***Plexiglass lens*** *available upon request;* ***Frames and flyscreens*** *no longer manufactured.*

New Spare parts for LEWMAR Flush Hatch 2G portholes

LEWMAR

Standard size spare parts for Lewmar Flush 2G, manufacture from 2006 up to now.

Hatch model	Plexiglas	Seal	Locking levers	Hinge	Frame coupling	Hatch stay
10	**19.914.10**	**19.916.10**	**19.910.07**	**19.915.03**	**19.915.04**	-
20	**19.914.20**	**19.916.20**	**19.910.07**	**19.915.03**	**19.915.04**	-
44	**19.914.44**	**19.916.44**	**19.910.11**	**19.915.03**	**19.915.04**	**19.915.05**
60	**19.914.60**	**19.916.60**	**19.910.11**	**19.915.03**	**19.915.04**	**19.915.05**
70	**19.914.70**	**19.916.70**	**19.910.11**	**19.915.03**	**19.915.04**	**19.915.05**

New Spare parts for LEWMAR Flush Hatch 3G portholes

LEWMAR

Standard size spare parts for Lewmar Flush 3G, manufacture from 2010 up to now.

Hatch model	Plexiglas	Seal	Locking levers	Hinge	Frame coupling	Hatch stay
10	**19.913.10**	**19.915.10**	**19.915.01**	**19.915.03**	**19.915.04**	-
20	**19.913.20**	**19.915.20**	**19.915.01**	**19.915.03**	**19.915.04**	-
44	**19.913.44**	**19.915.44**	**19.915.02**	**19.915.03**	**19.915.04**	**19.915.05**
60	**19.913.60**	**19.915.60**	**19.915.02**	**19.915.03**	**19.915.04**	**19.915.05**
70	**19.913.70**	**19.915.00**	**19.915.02**	**19.915.03**	**19.915.04**	**19.915.05**

► Brass and stainless steel portlights and hatches

Vemefa portlight

Made of mirror-polished **stainless steel**, fitted with trimming ring. Watertight snap locking.

Code	Telescopic thickness mm	Net light mm	All-out Ø mm
19.070.01	5/17	100	165
19.070.02	5/17	125	190
19.070.03	5/17	150	215

Tondo thin edge portlight

Made of **chromed brass**, fitted with rear **watertight** ring, wing nut locking.

Code	Net light mm	Cut size Ø mm	All-out Ø mm	Thickness mm
19.697.03	100	125	150	12
19.697.04	125	152	180	12
19.697.05	150	177	200	12

Tondo portlight

Made of **chromed brass**, fitted with rear **watertight** ring, wing nut locking.

Code	Net light mm	Cut size Ø mm	All-out Ø mm	Thickness mm
19.697.01	165	195	268	20/50
19.697.02	200	230	300	20/50
19.697.22	345	382	480	20/47

Ovale portlight

Made of **chromed brass**, fitted with rear **watertight** ring, quick snap locking.

Code	Net light mm	Cut size Ø mm	All-out Ø mm	Thickness mm
19.698.02	115x330	120x340	160x380	20/50
19.698.03	122x430	128x435	177x482	20/50

Ovale small portlight

Made of **chromed brass**, fitted with rear **watertight** ring, wing nut locking.

Code	Net light mm	Cut size Ø mm	All-out Ø mm	Thickness mm
19.698.04	58x185	75x210	108x245	21

Ovale large portlight

Made of **chromed brass**, fitted with rear **watertight** ring, wing nut locking.

Code	Net light mm	Cut size Ø mm	All-out Ø mm	Thickness mm
19.698.05	170x340	195x365	265x435	20/70

Ellittico portlight

Made of **chromed brass**, fitted with safety lens, quick adjustable locking lever and external flaring to prevent water stagnation.

Code	Net light mm	Cut size Ø mm	All-out Ø mm	Thickness mm
19.695.00	138x404	205x485	240x510	10/25
19.695.01	105x340	172x410	190x425	10/20

► DOMETIC blinds for portlights and hatches

Simple and stylish shading solutions for portlights and hatches.

DOMETIC SkySol PleatedShade for portlights and small windows

A stylish, cost-effective pleated blind for portlights and small windows for a simple and quick installation. Harmony pleated fabric in cream colour. Bulkhead mounting top stack and hold down with popper. SkySol PleatedShade is available in standard and custom sizes on demand. Further colors available on demand: navy (blue) and ivory.

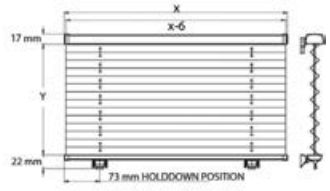
Code	⟷ fabric mm		Fabric colour
	X	Y	
19.860.02	381	305	Cream
19.860.03	508	305	Cream
19.859.02	381	305	White
19.859.03	508	305	White

DOMETIC Skysol Motion pleated blind for hatches and portlights

DAME AWARD 2013

Self-retractable system for immediate installation: the elegant pleated fabric is easily applicable to several indoor environments.
Ideal for hatches and portlights, this DAME Award winning product offers the practicality and convenience of the traditional rolling blinds combined with the elegant look and feel of pleated solutions.
This UV-resistant, fully marinised rolling blind is a cost-engineered quality product for competitive pricing.
Choice of fabrics in white and cream colour for custom-made blinding and insulating effects upon request.

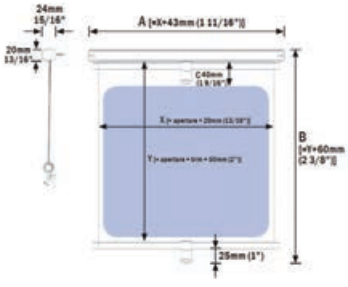
Code	⟷ fabric mm		Fabric colour
	X	Y	
19.890.01	350	400	White
19.890.02	450	520	White
19.890.03	550	640	White
19.890.04	680	750	White



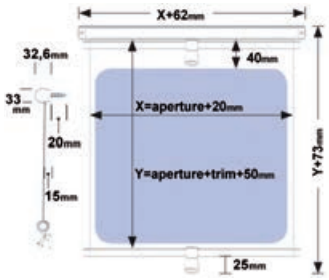
DOMETIC Skyshade Portshade 320 roller blind for portlights and small windows

Ultra-slim cassette roller blind, suitable for even the smallest of portlights. It can be used for vertical or horizontal surfaces, with the added benefit of also being well suited for curved surfaces. 100% blackout fabric, simple installation.
Portshade 320 is available in standard and custom sizes on demand. Cassette colour: anodized silver or white (RAL9016). On demand available in beige, too (RAL9001).

Code	⟷ fabric mm		Cassette colour
	X	Y	
19.850.02	340	280	white
19.850.03	380	280	white
19.850.04	460	320	white
19.850.05	660	320	white
19.850.06	720	320	white



DOMETIC OCEANair



DOMETIC Skyshade Cabinshade roller blind for hatches and portlights

It is a cassette roller blind housed in a simple, functional extrusion for hatches or portlights. It can be used for vertical or horizontal surfaces, with the added benefit of also being well suited for slightly curved surfaces. 100% blackout white fabric. Simple installation.
Cabinhade is available in standard and custom sizes on demand. Cassette colour: white; beige or anodized silver available on demand.

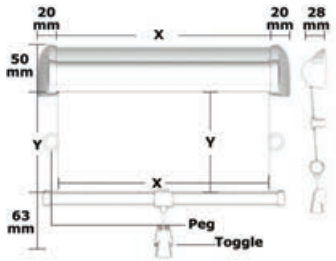
Code	⟷ fabric mm		Cassette colour
	X	Y	
19.880.01	360	440	☐ white
19.880.02	470	510	☐ white
19.880.03	550	600	☐ white

DOMETIC OCEANair

DOMETIC Skyshade Hatchshade 750 roller blind for hatches and windows

It is a cassette roller blind housed in an elegant profiled design. Suitable for vertical or horizontal surfaces and easy to fit.100% blackout fabric. Hold down with toggle.
HatchShade 750 is available in standard and custom sizes on demand. Cassette colour: white (RAL9016). On demand available in beige, too (RAL9001).

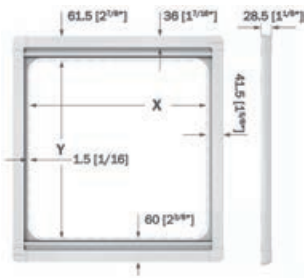
Code	⟷ fabric mm		Cassette colour
	X	mmY	
19.870.60	556	600	☐ White
19.870.70	679	700	☐ White



► DOMETIC SkyScreen blinds and flyscreens

SKYSCREEN provides a unique solution to shading boat hatches by combining a 100% blackout blind and a separate flyscreen within one unit. A 3-layer blind fabric combines 100% blackout and 80% heat reflection in a waterproof, UV-resistant, low maintenance, blind fabric. SkyScreens available in standard and custom sizes on demand, tailored to fit any hatch.

DOMETIC OCEANair



DOMETIC SkyScreen Roller Surface 2 roller blind and flyscreen - surface mounted

Entry-level system for hatches to be installed on the surface of the cabin internal coating:
- 100% blackout blind and flyscreen (both white) combined in one low profile and modern design PVC unit.
- User-friendly magnetic locking between blind and flyscreen.
- Optional to be ordered separately: flexible liner 19.809.05/20.
Standard or custom sizes available on demand and tailored to fit any hatch. Frame colour: white (RAL9016), beige (RAL9001) available on demand.

Code	For hatch model	Inner cut-out dimensions mm		Colour of frame, fabric and flyscreen
		X	Y	
19.802.10	Lewmar 10	260	260	☐ White
19.802.20	Lewmar 20	347	202	☐ White
19.802.40	Lewmar 40	421	421	☐ White
19.802.44	Lewmar 44	442	442	☐ White
19.802.60	Lewmar 60	507	507	☐ White
19.802.70	Lewmar 70	627	627	☐ White
19.802.02	Bomar 1029	470	340	☐ White
19.802.05	Bomar 1039	514	514	☐ White
19.802.04	Bomar 1080	470	470	☐ White

19.899.01 *Spare handles.*

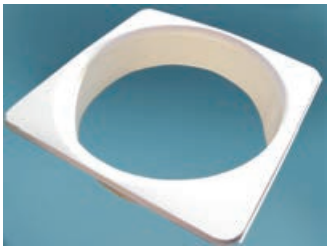
DOMETIC SkyScreen Recessed roller blind and flyscreen – installation flush with yacht's headlining

Entry-level system for rectangular and round hatches for recess and flush mounting with the cabin headlining. 100% blackout blind and flyscreen combined in a pre-treated polyester coated aluminium unit.
- Optional to be ordered separately: flexible liner 19.809.05/20.
Standard or custom sizes available on demand and tailored to fit any hatch. Frame colour: white (RAL9016), beige (RAL9001) available on demand.

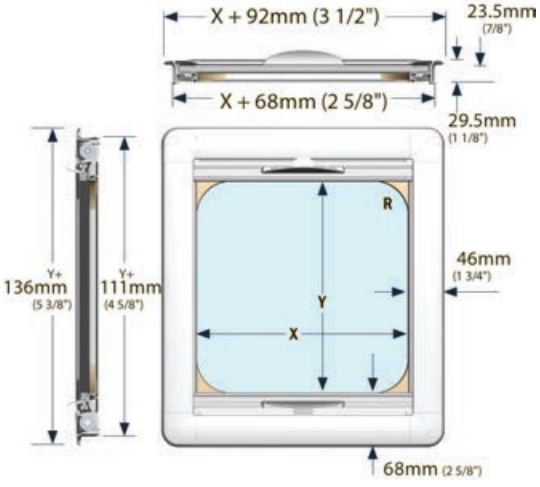
Code	For hatch model	Also for hatch model	Internal cut-out dimensions mm		Frame colour
			X	Y	
19.805.10	Lewmar 10 (19.410.10; 19.420.10; 19.440.10)	Bomar 910 (19.910.10)	260	260	☐ white
19.805.20	Lewmar 20 (19.410.20; 19.420.20)	-	347	203	☐ white
19.805.40	Lewmar 40 (19.410.40; 19.420.40; 19.440.40)	-	421	421	☐ white
19.805.44	Lewmar 44 (19.410.44; 19.420.44; 19.440.44)	-	442	442	☐ white
19.805.60	Lewmar 60 (19.410.60; 19.420.60; 19.440.60)	Bomar 1039 (19.720.05)	507	507	☐ white
19.805.02*	Bomar N1139 (19.724.02)	Gebo and Trend round	590 (round - Ø 518)	590 (round - Ø 518)	☐ white

* *Fitted with round moulded ABS finishing (518-mm Ø), white RAL 9016 colour*

19.899.01 *Spare handles.*



◀ ABS round finishing 19.805.02



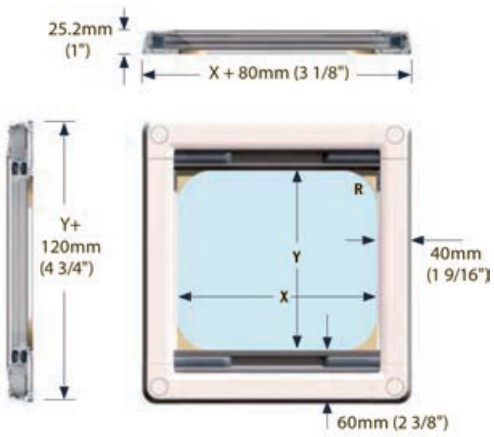
DOMETIC SkyScreen Pleated blind and flyscreen – surface mounted

This stylish and easy-to-fit solution for rectangular and round hatches is designed to be surface mounted or concealed in the cabin internal coating.
100% blackout blind and flyscreen in pleated fabric combined in one ultra-slim alloy cassette.

- Optional to be ordered separately: liner made of four separate moulded pieces.

Standard or custom sizes available on demand and tailored to fit any hatch.
Frame colour: white (RAL9016), beige (RAL9001) available on demand.

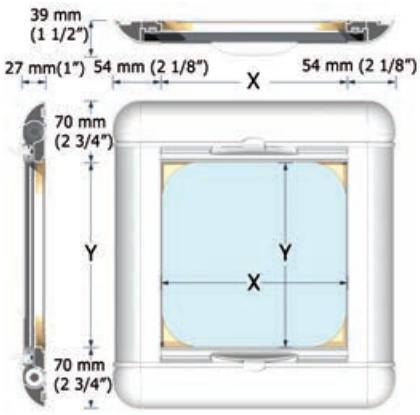
Code	For hatch model	Also for hatch model	Internal cut-out dimensions mm		Frame colour
			X	Y	
19.803.10	Lewmar 10 (19.410.10 - 19.420.10)	-	260	260	☐ white
19.803.44	Lewmar 44 (19.410.44; 19.420.44; 19.440.44)	-	442	442	☐ white
19.803.60	Lewmar 60 (19.410.60; 19.420.60; 19.440.60)	-	507	507	☐ white
19.803.02	Bomar 1029 (19.720.02)	Lewmar 30 (19.410.30; 19.420.30)	470	340	☐ white
19.803.05	Bomar 1039 (19.720.05)	-	514	514	☐ white



DOMETIC OCEANair

DOMETIC SkyScreen Roller Surface roller blind and flyscreen - surface mounted

Entry-level system for rectangular and round hatches to be installed on the surface of the cabin internal coating. A 100% blackout blind and flyscreen combined in one low profile plastic unit with rounded edges.
- Optional to be ordered separately: flexible liner 19.809.05/20.
Standard or custom sizes available on demand and tailored to fit any hatch. Frame colour: white (RAL9010), beige (RAL1013) available on demand.



Code	For hatch model	Also suitable for hatch model	Internal cut-out dimension mm mm		Frame colour
			X	Y	
19.801.10	Lewmar 10 (19.410.10 - 19.420.10)	-	260	260	☐ off-white
19.801.20	Lewmar 20 (19.410.20 - 19.420.20)	-	347	203	☐ off-white
19.801.40	Lewmar 40 (19.410.40 - 19.420.40)	-	421	421	☐ off-white
19.801.44	Lewmar 44 (19.410.44 - 19.440.44)	-	442	442	☐ off-white
19.801.60	Lewmar 60 (19.410.60 - 19.420.60 - 19.440.60)	-	507	507	☐ off-white
19.801.70	Lewmar 70 (19.420.70 - 19.440.70)	-	627	627	☐ off-white
19.801.02	Bomar 1029 (19.720.02)	Lewmar 30 (19.410/420.30)	470	340	☐ off-white
19.801.05	Bomar 1039 (19.720.05)	-	514	514	☐ off-white
19.801.04	Bomar 1080 (19.720.04)	-	470	470	☐ off-white
19.801.01*	Bomar N1139 (19.724.02), Lewmar 22 (19.410/440.22) - round	Gebo and Trend round	590 (round Ø 518)	590 (round Ø 518)	☐ off-white

* *Fitted with ABS rounded stamped finishing, RAL 9016 white color.*

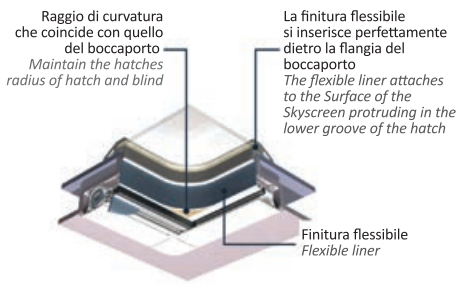
19.899.01 *Spare handles.*

DOMETIC OCEANair

DOMETIC Flexible PVC Liner for SkyScreen Surface and SkyScreen Recessed models

The liner for the SkyScreen series consists of a single extruded liner made of extruded UV-resistant and durable material. Liner max height: 45 mm, 100 mm also available on demand. The liner can be cut down to fit any hatch tunnel. Colour: white (RAL9016).

Code	Liner roll length m	No of joint strips	Liner height mm	Colour
19.809.20	20	12	52	☐ white
19.809.05	2.5	1	52	☐ white

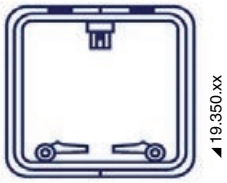


► Portlight blinds and accessories

Hatch cover

Made of CYCLONE UV-resistant fabric. Transpirable, it reduces condensate.
Wind-proof fastening system.

Code	Length mm	Depth mm	Ø mm	Hatch shape	Colour
19.350.02	330	330	-	Square	Blue
19.350.03	450	450	-	Square	Blue
19.350.04	500	500	-	Square	Blue
19.350.05	580	580	-	Square	Blue
19.350.06	700	700	-	Square	Blue
19.350.07	770	770	-	Square	Blue
19.351.01	400	260	-	Rectangular	Blue
19.351.02	520	400	-	Rectangular	Blue
19.351.03	580	460	-	Rectangular	Blue
19.352.02	-	-	500	Circular	Blue
19.352.03	-	-	600	Circular	Blue
19.353.02	600	620	520	Trapezoidal	Blue


◢ 19.350.xx

◢ 19.351.xx

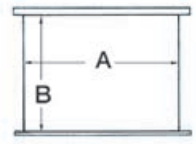
◢ 19.352.xx

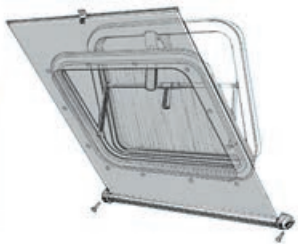
◢ 19.353.02

Climavision Mare blackout blind

Fitted with **epoxy-coated aluminium** frame and **stainless steel** springs. Polyester blackout fabric with **silver metallized** external side to ensure complete blackout at night and sun light reflection during the day. For mounting under hatches or in front of portlights in a matter of seconds. No modification required.

Code	A mm	B mm	For hatches or portlights max. net light mm	Colour
19.359.01	360	400	330x330	White
19.359.02	450	500	410x410	White
19.359.03	500	600	460x500	White
19.359.04	550	650	510x550	White
19.359.05	680	780	620x680	White



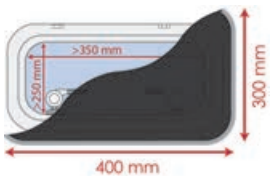


Blinds for hatches and portlights

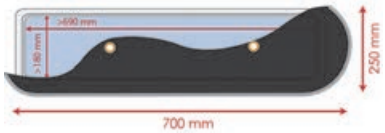
Fast mounting with suction pads.
Supplied with bag for storage when not in use.

Code	⟷ external mm	For hatches max mm	For portlights max mm
19.364.01	600x600	520x520	-
19.364.02	800x800	720x720	-
19.364.03	400x300	-	350x250
19.364.04	700x250	-	690x180

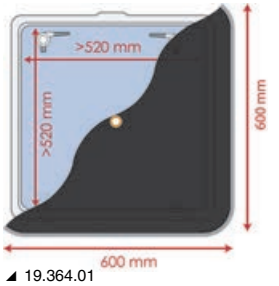
◢ 19.364.03



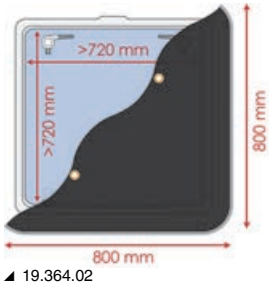
◢ 19.364.03



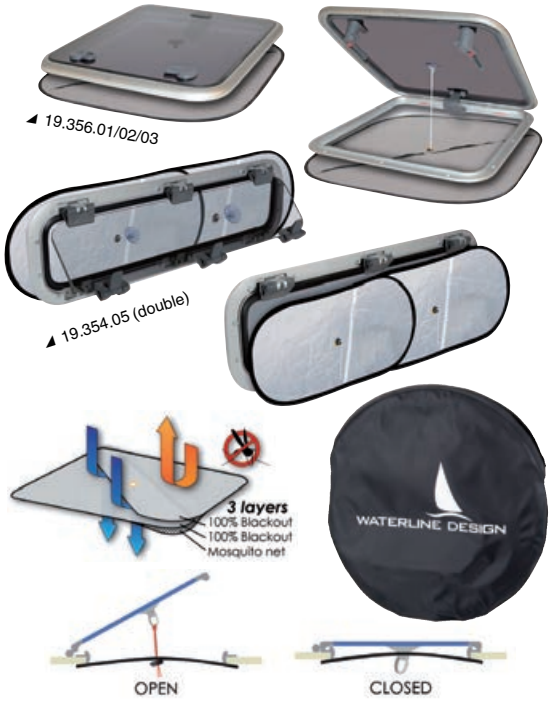
◢ 19.364.04



◢ 19.364.01



◢ 19.364.02



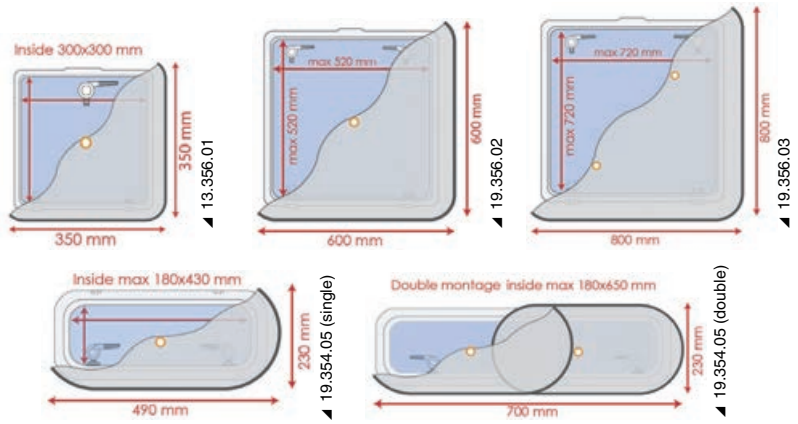
◢ 19.356.01/02/03

◢ 19.354.05 (double)

Blinds + flyscreens

A single with a dual function: blind and flyscreen that lets air in. Fast mounting with suction pads.

Code	Description	⟷ external mm	For hatches max mm (cut-out size)	For portlights max mm
19.356.01	single	350x350	300x300	-
19.356.02	single	600x600	520x520	-
19.356.03	single	800x800	720x720	-
19.356.05	2-pcs kit	230x490 (single) - 230x700 (double)	-	180x430 (single) - 180x650 (double)



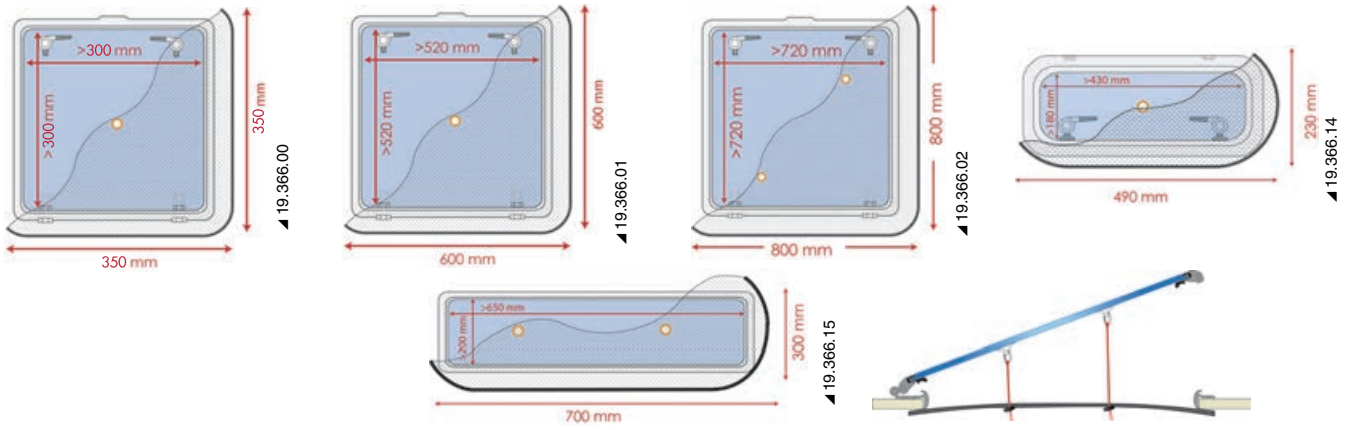
◢ 19.366.00/01/02

◢ 19.366.14/15

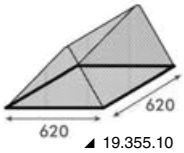
Flyscreen for hatches and portlights

Made of black polyester. They can be installed in a matter of seconds by means of suction cups or magnets. They come in a storage pocket.

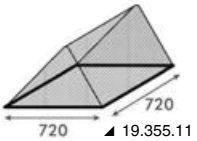
Code	⟷ outside mm	For hatches max mm	For portlights max mm	Installation
19.366.00	350x350	300x300	-	suction cup/magnet
19.366.01	600x600	520x520	-	suction cup/magnet
19.366.02	800x800	720x720	-	suction cup/magnet
19.366.14	490x230	-	430x180	suction cup/magnet
19.366.15	700x300	-	650x200	suction cup/magnet



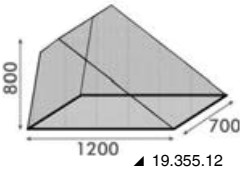
◢ 19.355.10



620 620 ◢ 19.355.10



720 720 ◢ 19.355.11



800 1200 700 ◢ 19.355.12

Flyscreen mesh for hatches for outdoor purposes

Flyscreen mesh to be installed outside the hatch. It can be installed in a matter of seconds by means of a weighed strap.

Code	⟷ mm
19.355.10	620x620
19.355.11	720x720
19.355.12	700x1200x800 h

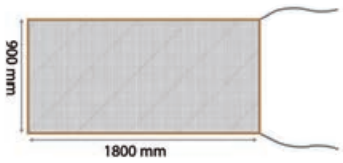
◢ 19.355.12

◢ 19.355.11

Companionway protection hood

Universal hatch protection hood with ribbon on the lower side for fastening.

Code	Description	Colour
19.355.00	Polyester mosquito net	Black
19.355.05	Blind + mosquito net	White/silver and black strip



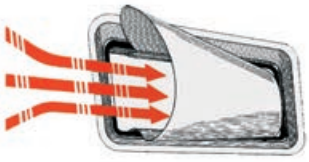
◢ 19.355.05

◢ 19.355.00

Universal air flow conveyor for any type of portlights

Made of **white plastic**, compact size, it can be installed and removed in a matter of seconds and provides optimal ventilation for cabins.

Code	⟷ mm flattened
19.041.00	350x400



PSP MARINE TAPES for seals of portlights, hatches windows, etc

Designed to make these openings **watertight**.

Code	Material/colour	Thickness mm	Width mm	Length m
19.114.00	black PVC foam	3	19	3
19.114.01	black PVC foam	6	25	3

Self-adhesive tape for seals of portlights, hatches, windows, etc.

Designed to make these openings **watertight**.

Code	Material/colour	Thickness mm	Width mm	Length m
19.115.15	black PVC foam	10	15	5
19.115.20	black PVC foam	10	20	5

PSP MARINE TAPES double-sided soft tape

It has two adhesive faces with a soft PVC foam tape in between. Ideal to fix uneven surfaces or to avoid vibrations.

Code	Material	Thickness mm	Roll
19.116.01	Black PVC foam	3	19 mm x 3 m
19.116.02	Black PVC foam	3	25 mm x 3 m

Doorstop hook

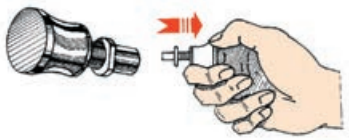
Remove one or two chain links to get the length required.

Code	Material	Length mm
19.132.70	chromed brass	250

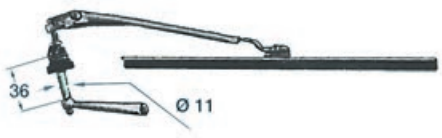
Spring glass stop

To stop sliding glazed panels.

Code	Material	For glass or plexiglas	Ø mm	Length mm
19.198.00	chromed brass	from 5 to 12 mm	22	44



► Windshield wipers



Hand-operated windshield wiper

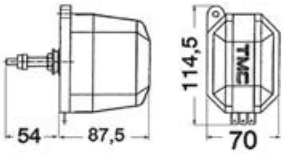
Made of **chromed brass** with **stainless steel** arm and neoprene wiper blade.

Code	Wiper blade mm	Spare wiper blade
19.150.00	280	**19.152.40**

Hooded watertight windshield wiper

Stainless steel arm and blades.

Code	V	Stop angle	Automatic return	Telescopic arm mm	Wiper blade mm	Spare blade
19.151.52	12	110°	yes	250/280	280	19.152.40
19.151.53	12	110°	yes	300/350	350	19.152.41



TMC hooded windshield wiper

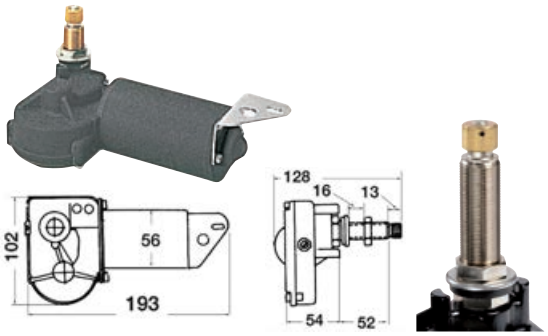
Stainless steel frame. Fitted with stainless steel arm and wiper blades.

Code	V	Stop angle	Automatic return	Telescopic arm mm	Wiper blades mm	Spare blade
19.152.50	12	110°	yes	200/280	280	**19.152.40**
19.152.51	12	110°	yes	270x350	350	**19.152.41**

Pantograph arm

STAINLESS STEEL / ACCIAIO INOX Polished stainless steel arms and wiper blades with windshield wiper.

Code	Description	Length mm	Windshield device
19.190.01	**Pantograph telescopic arm**	650/800	yes
19.194.01	Wiper blade	600	yes
19.194.02	Wiper blade	700	yes
19.194.03	Wiper blade	800	yes



TMC watertight windshield wiper motor

100% stainless, for bulkhead mounting up to 50-mm thickness, high-power motor for long operation. Fitted with adjustable cams for different wiping angles: 80°- 100°- 110°- 120°; 100 kg/cm^2 9.8 Nm stall force. **Automatic return to standby position on power shut off.**

Code	V	Automatic return	Colour	For arm type	For wiper blade type
19.172.40	12	yes	Black coated	19.152.xx	19.112.xx
19.172.41	24	yes	Black coated	19.152.xx	19.112.xx

TMC hooded watertight windshield wiper motor

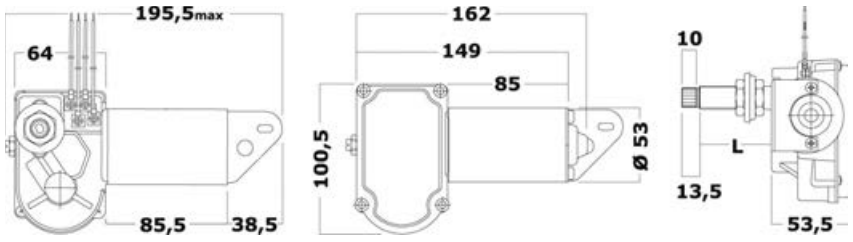
New **hooded** model fitted with UV-resistant white **technopolymer** body. **Brass** shaft that fits glass panes up to 40-mm thick.

Code	V	Max torque	Adjustable stop angles	Speed	Automatic return	For arm type	For wiper blade type	⟷ mm
19.175.12	12	100 kgf/cm (9.8 Nm)	83-100-110-120°	2	yes	19.152.xx	19.112.xx	210x110x68 thickness
19.175.24	24	100 kgf/cm (9.8 Nm)	83-100-110-120°	2	yes	19.152.xx	19.112.xx	210x110x68 thickness

20W motor for max 550-mm wiperarms and blades

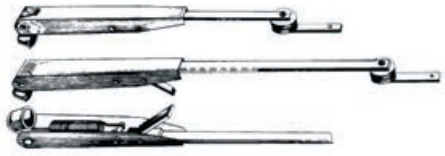
3.43-Nm torque, max 12.0 Nm. 55-dB max noise.

Code	V	Speed	Adjustable stop angle	Automatic return to standby	L mm	For arm type	For wiper blade type
19.182.03	12	2 (35-45 RPM)	50/70/90/100°	yes	25	**19.152.xx**	**19.112.xx**
19.182.01	12	2 (35-45 RPM)	50/70/90/100°	yes	51	**19.152.xx**	**19.112.xx**
19.182.02	24	2 (35-45 RPM)	50/70/90/100°	yes	51	**19.152.xx**	**19.112.xx**



Matt black stainless steel telescopic wiper arm

Code	For windshield wipers	Matching wiper blades	Adjustable
19.152.14	19.172.40; 19.172.41; 19.175.12; 19.175.24	19.112.xx	265 to 335 mm
19.152.15	19.172.40; 19.172.41; 19.175.12; 19.175.24	19.112.xx	325 to 460 mm
19.152.16	19.172.40; 19.172.41; 19.175.12; 19.175.24	19.112.xx	455 to 615 mm

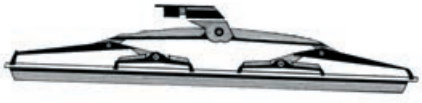


Stainless steel parallelogram arm for windshield wipers

Code	For windshield wipers	Matching wiper blades	Length mm
19.152.36	19.172.40; 19.172.41; 19.175.12; 19.175.24	19.112.xx	305/360
19.152.45	19.172.40; 19.172.41; 19.175.12; 19.175.24	19.112.xx	381/432
19.152.55	19.172.40; 19.172.41; 19.175.12; 19.175.24	19.112.xx	432/560

Matt black stainless steel blades with special silicone flaps for windshield wipers

Code	For black windshield wipers	Length mm
19.112.12	19.172.40; 19.172.41; 19.175.12; 19.175.24	305
19.112.14	19.172.40; 19.172.41; 19.175.12; 19.175.24	356
19.112.16	19.172.40; 19.172.41; 19.175.12; 19.175.24	405
19.112.18	19.172.40; 19.172.41; 19.175.12; 19.175.24	457
19.112.20	19.172.40; 19.172.41; 19.175.12; 19.175.24	505
19.112.22	19.172.40; 19.172.41; 19.175.12; 19.175.24	559
19.112.24	19.172.40; 19.172.41; 19.175.12; 19.175.24	600 (nylon)



► Professional windshield wipers

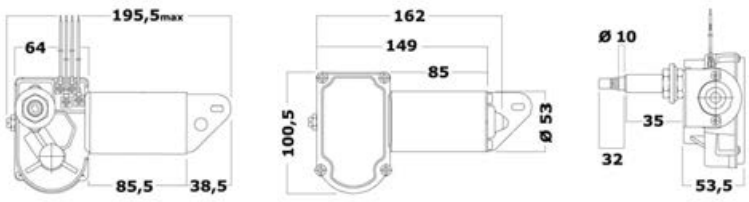
OSCULATI

A range of windshield wipers designed for boats and made of stainless materials.

20W motor for max 550-mm wiper arms and blades

3.43Nm torque, max 12.0 Nm. Fixing shaft length L=48 mm (other dimensions on request).
55-dB max noise. DIN connector.

Code	V	Speed	Adjustable stop angle	Automatic return to standby
19.181.01	12	2 (35-45 RPM)	50/70/90/100°	yes
19.181.02	24	2 (35-45 RPM)	50/70/90/100°	yes



◢ 19.188.01/02

◢ 19.193.01/03/11/13

◢ 19.189.01/02

◢ 19.193.02/12

Regular and pantograph telescopic wiper arm for 20W motor - 19.181.01/02

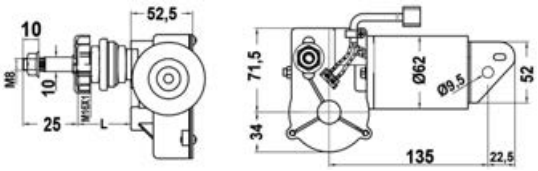
STAINLESS STEEL / ACCIAIO INOX Polished stainless steel arms and wiper blades. DIN fitting.

Code	Description	Length mm	Windshield wiper
19.188.01	**Regular telescopic arms**	350/450	no
19.188.02	**Regular telescopic arms**	450/550	no
19.193.01	Wiper blade	400	-
19.193.02	Wiper blade	450	-
19.193.03	Wiper blade	500	-
19.189.01	**Pantograph** telescopic arm	350/450	yes
19.189.02	**Pantograph** telescopic arm	450/550	yes
19.193.11	Wiper blade	400	-
19.193.12	Wiper blade	450	-
19.193.13	Wiper blade	500	-

30W motor for max 550-mm arms and wiper blades

5.0-Nm torque (max 22.0 Nm). Fixing shaft length L=48 mm (other dimensions on request). 55-dB max noise. DIN connector.

Code	V	Speed	Adjustable stop angle	Automatic return to standby
19.183.01	12	2 (35/45 RPM)	70°/80°/90°/95°	yes
19.183.02	24	2 (35/45 RPM)	70°/80°/90°/95°	yes



◢ 19.188.02

◢ 19.193.02/04/12/14

◢ 19.189.02

◢ 19.193.03/13

Regular and pantograph arm for 30W motor - 19.183.01/02

STAINLESS STEEL / ACCIAIO INOX Polished stainless steel arms and wiper blades. DIN connector.

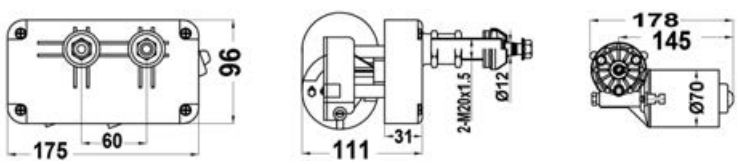
Code	Description	Length mm	Windshield wiper
19.188.02	**Standard telescopic arms**	450/550	no
19.193.02	Wiper blade	450	-
19.193.03	Wiper blade	500	-
19.193.04	Wiper blade	550	-
19.189.02	**Pantograph telescopic arms**	450/550	yes
19.193.12	Wiper blade	450	-
19.193.13	Wiper blade	500	-
19.193.14	Wiper blade	550	-

50W motor for max 800-mm arms and max 700-mm wiper blades

7-Nm torque (max 24 Nm). Fixing shaft length L2=60 mm (other dimensions on request). 50-dB max noise. DIN connector.

Code	V	Speed	Stop angle	Automatic return to standby
19.184.01	12	2 (35/45 RPM)	(L1) 75° *	yes
19.184.02	24	2 (35/45 RPM)	(L1) 75° *	yes

* *Other angles (60° to 95°) on request.*



Pantograph arm for 50W motor - 19.184.01/02

STAINLESS STEEL / ACCIAIO INOX Polished stainless steel arms and blades with windshield wiper. DIN connector.

Code	Description	Length mm	Windshield wiper
19.190.01	**Pantograph telescopic arm**	650/800	yes
19.194.01	Wiper blade	600	yes
19.194.02	Wiper blade	700	yes

◢ 19.190.01

◢ 19.194.01

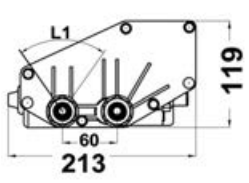
◢ 19.194.02

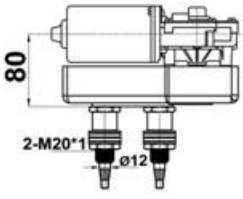
70W motor for max 800-mm arms and wiper blades

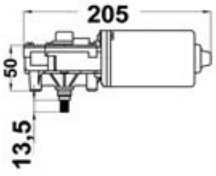
9-Nm torque (max 35 Nm). Fixing shaft length L=60 mm (other dimensions on request).
50-dB max noise. DIN connector.

Code	V	Speed	Stop angle	Automatic return to standby
19.185.01*	12	2 (30/45 RPM)	(L1) 80°	yes
19.185.02	24	2 (30/45 RPM)	(L1) 80°	yes

* *Other angles (70° to 90°) on request*







Pantograph arm for 70W motor - 19.185.01/02

STAINLESS STEEL / ACCIAIO INOX Polished stainless steel arms and wiper blades with windshield wiper. DIN connector

Code	Description	Length mm	Windshield wiper
19.190.01	**Pantograph telescopic arm**	650/800	yes
19.194.01	Wiper blade	600	yes
19.194.02	Wiper blade	700	yes
19.194.03	Wiper blade	800	yes

◢ 19.190.01

◢ 19.194.02

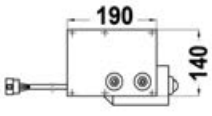
◢ 19.194.03

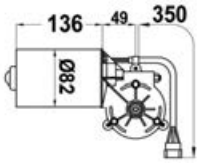
100W motor for max 900-mm arms and max 1000-mm wiper blades

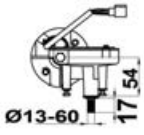
12Nm torque, max 60 Nm. Fixing shaft length L=60 mm (other dimensions on request).
50-dB max noise. DIN connector.

Code	V	Speed	Stop angle	Automatic return to standby
19.186.02	24	2 (30/45 RPM)	70° *	yes

* *Other angles (36° to 95°) on request*







Pantograph arm for 100W motor - 19.186.02

STAINLESS STEEL / ACCIAIO INOX Polished stainless steel arms and wiper blades with windshield wiper. DIN connector.

Code	Description	Length mm	Windshield wiper
19.191.01	**Pantograph arm**	800	yes
19.191.02	**Pantograph arm**	900	yes
19.195.01	Wiper blade	900	yes
19.195.02	Wiper blade	1000	yes

◢ 19.191.01/02

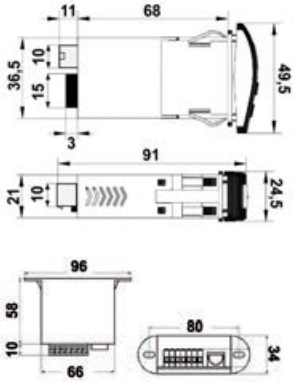
◢ 19.195.01

◢ 19.195.02

► Accessories for windshield wipers

Two-speed windshield wiper control switch

Code	Description
19.752.28	For 12V windshield wipers fitted **with** automatic return to standby position



Universal smart switch for windshield wiper

Universal 12/24 volt, LED backlit switch, same look and recess fit sizes of genuine USA CARLINGSWITCH switches.

Version for 1 windshield wiper
Features: On/off position. 3 intermittent levels indicated by LED lights. 2 speed modes (when provided by the windshield wiper). Washing cycle. Automatic return to standby position. Dimmer port to adjust the light intensity level.
Version for 2 windshield wipers
Features: On/off position. Automatic synchronization of two wipers. Either wiper can be activated. 3 intermittent level. 2 speed modes when provided by the windshield wiper). Washing cycle. Automatic return to standby position. Dimmer port to adjust the light intensity level.

Version for	For current max 4A	For current max 15A	Frame (optional)
1 windshield wiper	**19.754.01**	**19.755.01***	**14.197.01**
2 windshield wipers	**19.754.02**	**19.755.02***	**14.197.01**

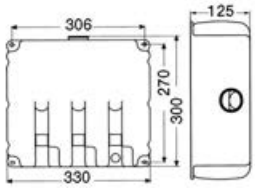
* *A power relay box is supplied in addition to the switch*

Window cleaning kit

It consists of a **polyethylene** tray and motor with 12 V pump, support, hose and two spray evaporators. Designed for the marine sector, to be used in combination with the windshield wipers available in our catalogue.

Code	⟷ mm	Litres
19.105.00	220x100x130	2.8

◢ 19.106.12/24; 19.107.24

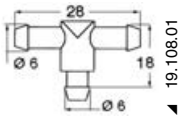


◢ 19.106.12

Doga window cleaning system

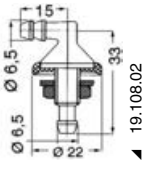
Designed for large windshield wipers (series 19.950.../19.952. and similar types Ancor or Speich).

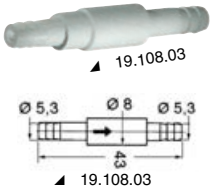
Code	Description
19.106.12	9,7 l tank, 12 V, with 2 pumps (for 2 wipers)
19.106.24	9,7 l tank, 12 V, with 2 pumps (for 2 wipers)
19.107.24	9,7 l tank, 12 V, with 2 pumps (for 3 wipers)
19.108.00	5 mm PVC hose for windshield wiper, 24 m rolls
19.108.01	T connector
19.108.02	bullkhead-pass
19.108.03	check valve
19.108.04	spray nozzle



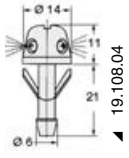
◢ 19.108.00

◢ 19.108.02





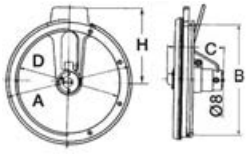
◢ 19.108.04



► Prisms and clear viewers

EIWA pivoting clear viewer

The tempered glass disc reaches its maximum speed in as little as 10 seconds. Instant centrifuge system for water splashes, rain, salt, mud, etc.



Code	V	W	Outer Ø A mm	Net light D mm	Bore B mm	C mm	H mm	RPM	kg
19.152.60	12	34	350	300	326	163	212	2000	6
19.152.61	24	34	350	300	326	163	212	2000	6

Flush and waterproof inspection hatches

in compliance with **Directive 2013/53/UE**
Following UNI EN ISO 12216:2004

Only ASA material

We choose the best materials to make hatches that last as long as your boat. 100% UV resistant.

Custom options available

to suit your colour requirement (MOQ applicable)

Selected by the major OEM's

For their versatile use in many applications on board, we have many years experience working with the worlds best boat yards.

Low profile hinges

Are strong and reliable, we offer fixed and removable lids.

Two type of handle

1) Flush lift & turn operation, that can be used with one hand.
2) Flush push to close, easy to use and simple design

CE MADE IN ITALY for 30 years

► Hatches, housings and lockers type-tested in compliance with Directive 2013/53/UE

OSCULATI

FLUSH inspection hatch CE

The faired cover hides the frame completely. 100% flush hinges.
180° opening. Walking surface. UV BASF resistant.
It can be installed on any sports craft, boat design category A, B, C, and D, area II a, III, IV, watertightness degree 2.

White	Cream RAL 9001	Black	Grey RAL 7042	Outside mm	Inside mm	Cut mm	OPTIONAL lock kit
20.291.00	20.291.40	20.291.50	20.291.60	380x280	295x198	310x210	20.093.00
20.292.00	20.292.40	20.292.50	20.292.60	600x350	513x265	530x280	20.093.00
20.293.00	20.293.40	20.293.50	20.293.60	375x375	285x285	300x300	20.093.00
20.294.00	20.294.40	20.294.50	20.294.60	520x465	430x375	445x390	20.093.00
20.295.00	-	20.295.50	20.295.60	600x250	515x165	530x180	20.093.00

◢ 20.291.00

◢ 20.291.00

◢ 20.292.00

◢ 20.293.00

◢ 20.294.00

◢ 20.291.40

◢ 20.291.60

◢ 20.291.50

◢ 20.295.00

CE APPROVED based on UNI EN ISO 12216:2004

OSCULATI

Faired inspection hatch with hidden screws

180° opening, very sturdy, antiskid finish, interchangeable sizes with product numbers 20.301.00-20.302.00.

Code	Outside mm	Inside mm	Cut mm	OPTIONAL lock kit for ready installation
20.298.00	280x380	198x295	210x310	20.093.00
20.299.00	350x600	265x513	280x530	20.093.00

◢ 20.299.00

◢ 20.093.00
Ready installation lock kit
OPTIONAL

◢ 20.298.00

◢ 20.298.00

OSCULATI

Inspection hatch with very sturdy anti-slip walking surface, UNI EN ISO 12216:2004

Splash-proof cover locking with neoprene gasket.
Flush-mount. It may be used as hatch for lockers, fishing tanks, storeroom hatch and bulkhead hatch.
160° opening. It can be installed on any sports craft, boat design category A, B, C, and D, area II a, III, IV, watertightness degree 2.

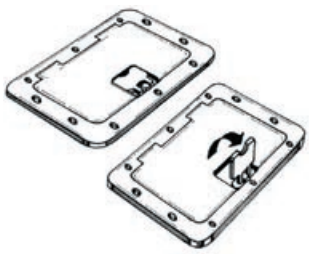
White	Grey	Outside mm	Inside mm	OPTIONAL lock kit for ready installation
20.301.00	20.301.60	280x380	180x280	20.093.00
20.302.00	20.302.60	345x595	250x500	20.093.00

◢ 20.301.00

◢ 20.301.00

◢ 20.302.00

◢ 20.093.00 OPTIONAL
lock kit for ready installation



CE APPROVED based on UNI EN ISO 12216:2004

Inspection hatch with removable front lid

OSCULATI

Very sturdy anti-skid surface; **splash-proof** lid closure with neoprene seal; flush mounting; they can be used as hatches for lockers, fishing containers or as boxroom hatches or bayonet front bulkheads; removable front for easy access. Ideal for installation on dashboard with nearby steering bench.

White	Cream RAL 9001	Grey	Black	Outside mm	Inside mm	OPTIONAL lock kit for ready installation
20.302.20	**20.302.21**	-	**20.302.23**	305 x 355	225 x 275	-
20.302.30	**20.302.31**	**20.302.32**	**20.302.33**	375 x 375	295 x 295	-
20.302.40	-	-	-	350 x 600	250 x 500	**20.093.00**

20.302.20

20.302.30

20.302.33

20.302.40

20.302.40

20.093.00 Lock kit for ready installation - OPTIONAL

PUSH PULL inspection hatch

OSCULATI

EASY OPEN Opening and closing with flush handle and snap-in locking system; neoprene cover gasket; 175° opening.

white	RAL 9001 cream	Outside mm	Inside mm	Cut mm	OPTIONAL lock kit
20.303.00	-	380x280	295x198	310x210	**20.094.00**
20.305.00	**20.305.40**	405x375	320x290	330x300	**20.094.00**
20.306.00	-	520x465	430x375	445x390	**20.094.00**
20.304.00	-	600x350	513x265	530x280	**20.094.00**

20.305.40

20.094.00 lock kit

20.304.00

20.305.00

20.306.00

20.303.00

Storage pocket

OSCULATI

White ABS body with woven nylon elastic net. **Self-adhesive** back or to be fixed with **4 screws**.

White	Black	⟷ mm	Suitable to be fixed on hatches
48.434.10	**48.434.20**	250x115x10 (LxHxP)	**20.291.00; 20.293.00; 20.303.00; 20.305.00; 20.305.40**
48.434.11	**48.434.21**	250x115x30 (LxHxP)	-
48.434.12	-	360x160x12 (LxHxP)	**20.292.00; 20.294.00; 20.299.00; 20.304.00; 20.306.00**
48.434.13	-	360x160x30 (LxHxP)	-

48.434.10/11/12/13

48.434.21

48.434.10

48.434.11

48.434.12

48.434.13

OSCULATI

Locker with watertight hatch

Fitted with seal and 3 removable drawers with internal compartments; ideal for storing fishing gear or as a hardware drawer.

◢ 20.871.90

white	Outside mm	Inside mm	Cut mm	Depth mm	Frontal type	Hatch type	OPTIONAL lock kit
20.871.10	380x280	280x180	310x210	180	A	20.298.00	**20.093.00**
20.871.11	380x280	280x180	310x210	180	B	20.291.00	**20.093.00**
20.871.12	380x280	280x180	310x210	180	C	20.303.00	**20.094.00**

20.871.90 *Spare drawer*

◢ A

◢ B

◢ C

◢ 20.093.00 OPTIONAL lock kit for ready installation

◢ 20.094.00 OPTIONAL lock kit for Push-Pull hatches

OSCULATI

Locker with lid

Comprised of lid and polyethylene peak

◢ 20.312.00

white	Outside mm	Inside mm	Depth mm	Hatch type	OPTIONAL lock kit
20.310.00	380x280	280x180	180	**20.301.00**	**20.093.00**
20.311.00	380x280	280x180	180	**20.298.00**	**20.093.00**
20.312.00	380x280	280x180	180	**20.291.00**	**20.093.00**
20.313.00	380x280	280x180	180	**20.303.00**	**20.094.00**
20.316.00	375x375	285x285	240	**20.293.00**	**20.093.00**
20.320.00	595x345	500x250	280	**20.302.00**	**20.093.00**
20.322.00	600x350	500x250	280	**20.292.00**	**20.093.00**

◢ 20.310.00

◢ 20.311.00

◢ 20.312.00

◢ 20.313.00

◢ 20.320.00

◢ 20.322.00

◢ 20.316.00

◢ 20.316.00

◢ 20.093.00 OPTIONAL Easy installation lock kit

◢ 20.094.00 OPTIONAL Push-pull hatch lock kit

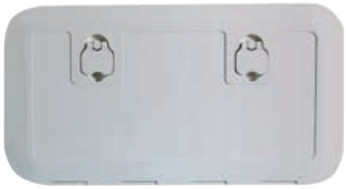
Side-mount locker

Made of white ABS, fitted with fully faired cover, hides the frame completely.
Flush-mount front bulkhead, the pocket may be mounted with the opening towards the top or bottom.

Code	Compartment	Outside mm	Inside mm	Depth mm	OPTIONAL lock kit
20.028.01	All open	600x250	530x190	190	**20.093.00**
20.028.02	Twin compartments	600x250	530x190	190	**20.093.00**

20.093.00 *Ready-to-install locking kit*

◢ 20.093.00 Lock kit



Storage locker

Pleasant look and fine finish; can be mounted any where in the boat;
white polypropylene compartment with watertight locking hatch and **neoprene** seal;
hidden screw frame, **white polycarbonate, UV resistant** cover.

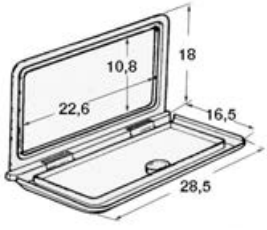
Code	External size mm	Internal size mm	Depth mm
20.017.00	364x183	321x140	150
20.017.01	364x183	321x140	75

5-drawer storage locker

White polypropylene compartment, pleasant look and fine finish, watertight locking with **neoprene** seal; hidden screw frame, **clear polycarbonate, UV resistant** cover.
Designed for vertical mounting; fitted with 5 removable drawers; ideal for storing small parts or fishing items.

Code	Outer size mm	Internal size mm	Depth mm	Drawers mm
20.019.00	364x183	321x140	150	130x150x50

Locker with white frame



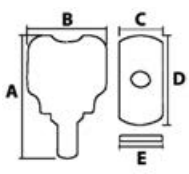
Code	Outside mm	Depth mm	Lock
20.021.00	285x180	260	yes
20.021.01	285x180	260	no

Storage locker

Code	Outside mm	Inside mm	Depth mm
20.033.00	240x145	195x95	48

Spare handles for Osculati hatches

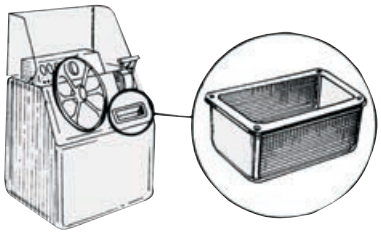
Code	Colour	For hatches and trapdoors	mm A	B	C	D	E
20.339.00	☐ White	**Flush and Classic series hatches** 20.291.00 / 20.292.00 / 20.293.00 / 20.294.00 / 20.295.00 / 20.298.00 / 20.299.00 / 20.302.20 / 20.302.30	95	56	30	66	30
20.338.00	☐ White	**Round trapdoors and hatches with visible screws** 20.840.00 / 20.844.00 / 20.301.00* / 20.302.00*	95	56	30	61	30



* *A 4-mm Ø hole is required*

► Compartments and ABS storage pockets

OSCULATI



Cockpit or instrument panel storage compartment

White polished ABS

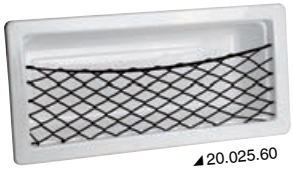
Code	Outside mm	Compartment mm
20.026.00	240x140	200x100x100

Locker with cup holders

Made of white plastic, fitted with push-button lock and key.

Code	External size mm	Internal size mm	Depth mm
20.021.50	335x130	295x95	153

◢20.025.00

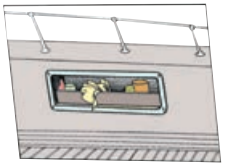


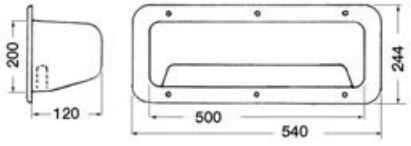
◢20.025.60

White ABS side pocket

Object-holder side pocket with elastic net and self-adhesive caps.

Code	Compartment	Outside mm	Net compartment mm	Depth mm
20.025.00	rigid	540x244	500x200x116	120
20.025.60	with screen and screw cover plate	540x244	500x200x116	120





Side storage locker

Designed for mounting stereo speakers, made of **polished white ABS**; wall-mounting.

Code	Outside mm	Inside mm	Depth mm	For OPTIONAL stereo speakers
20.024.00	535x320	495x280	116	29.722.00; 29.721.99

◢ 20.027.30

◢ 20.027.40

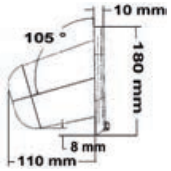
Side housing.

Designed for stereo speaker mounting. White polished ABS.

Code	External size mm	Internal size mm	Depth mm	For OPTIONAL stereo speakers	For side
20.027.40	520x280	484x244	105	-	Right
20.027.41	520x280	484x244	105	-	Left
20.027.30	690x370	640x325	85	**29.723.01**	Right
20.027.31	690x370	640x325	85	**29.723.01**	Left

◢ 20.027.41

◢ 20.027.31



Storage compartment

Made of polished ABS with snap closure.

Code	External size mm	Internal size mm	Depth mm	With lock
20.027.61	470x180	435x145	110	yes

Side housing fitted with two glass/can/small bottle holder

Made of white ABS. Also designed for speaker bulkhead mounting.

Code	Outside mm	Inside mm	Depth mm	Side
20.027.01	720x310	685x275	120	right
20.027.02	720x310	685x275	120	left

Glass/mug/bottle side holder

White polished ABS.

Code	Outside mm	Inside mm	Depth mm
20.029.00	290x290	250x170	64

Wall-mounting peak

Made of white polished ABS, fitted with hinged hatch.

Code	Outside mm	Net compartment mm	Depth mm
20.023.00	220x195	135x180	70
20.022.00	540x244	190x490	116

Twin-compartment locker designed for wall mounting

White ABS, pre-set for 1-kg type-tested extinguisher and storerage box.

Code	Extinguisher compartment mm	Object locker mm	External size mm	Recess mm
20.030.00	300x130	285x210	370x440	300x360x125

Storage locker for toilets

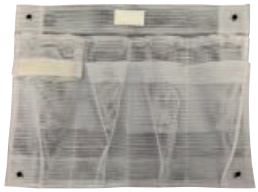
Suitable for storing personal toiletry items or medicines

Code	External size mm	Recess mm	Depth mm
20.035.00	260x260	190x190	75

Storage pocket

Made of sturdy white sail fabric, suitable for stowing lines, winch handles, personal objects, etc.
It includes wall mounting eyelets and upper elastic band.

Code	⟷ mm		Compartments
	height	width	
20.175.24	250	400	1 with elastic
20.175.26	350	400	1 with elastic
20.175.28	310	400	8, 7 of which are open and 1 with hook&loop fastener



► Inspection hatches, type-tested in compliance with Directive 2013/53/UE

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◢20.840.00 / 20.844.00

◢20.840.50

Inspection hatch with cover, CE approved

Antiskid **watertight** surface, recess hole with swivelling hollow flat.
It can be installed on any sports craft, boat design category A, B, C, and D, area II a, III, IV, watertightness degree 2.

White	Cream RAL 9001	Black	Grey	Max external Ø mm	Passage mm	Recess Ø mm	Hole centre distance mm
20.840.00	20.840.40	20.840.50	20.840.60	265	190	215	242
20.844.00	-	20.844.50	-	315	240	270	290

◢20.840.40

◢20.840.60

CE APPROVED
based on
UNI EN ISO 12216:2004

OSCULATI

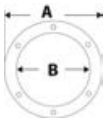
Hatch fitted with hidden screws and cam cover locking

Code	Max outer Ø mm	Inner Ø mm	Recess mm
20.845.00	325	240	290

Easy opening inspection hatches

Screw locking, **watertight**, equipped with rubber O-RING;
fitted with ridge for easy opening (non flush).

Code	Outer Ø mm - A	Opening Ø mm - B	Color
20.201.00	145	100	white
20.202.00	170	127	white
20.203.00	206	155	white



◢20.199.01/02/03

◢20.199.11/12/13

Polypropylene Inspection hatches, fitted with hidden mounting screws

Screw-locking, 100% watertight, equipped with rubber O-RING

White	Black	External Ø mm	Opening Ø mm
20.199.01	20.199.11	160	102
20.199.02	20.199.12	182	127
20.199.03	20.199.13	220	152

◢20.205.00;20.204.00;
20.206.00;20.207.00

◢20.205.01;20.204.01;
20.206.01;20.207.01

Stylish and practical inspection hatch

Screw turning lock, 100% watertight, fitted with rubber O-RING.

Polypropylene			Clear with white ring nut	Outside Ø mm	Opening Ø mm
white	black	Grey RAL 7042			
20.204.00	20.204.20	20.204.30	20.204.01	147	102
20.206.00	20.206.20	20.206.30	20.206.01	172	125
20.205.00	20.205.20	20.205.30	20.205.01	205	152
20.207.00	20.207.20	20.207.30	20.207.01	260	203

◢20.205.20;20.204.20;
20.206.20;20.207.20

◢20.205.30;20.204.30;
20.206.30;20.207.30

Polypropylene inspection hatch, fitted with rotating lock and bayonet

100% flush. The lid also covers the screws.

white	black	Ø Outer mm	inner Ø mm
20.337.01BI	20.337.01NE	135	100
20.337.02BI	20.337.02NE	204	155

Watertight white/transparent ABS inspection hatch

Fitted with rear nylon object/document holding bag.

Code	External Ø mm	Internal Ø mm
20.209.00	205	150

Watertight inspection hatch with quick opening

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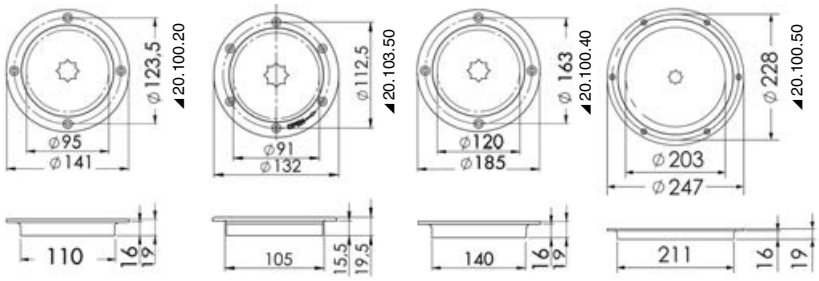
Made of **AISI 316 stainless steel**, 1/4 turn opening with winch handle (not included).
The cover remains attached to the winch handle for easy removal.

Code	External Ø mm	Passage mm
20.103.50	132	91
20.100.20	141	95
20.100.40	185	120
20.100.50	247	203

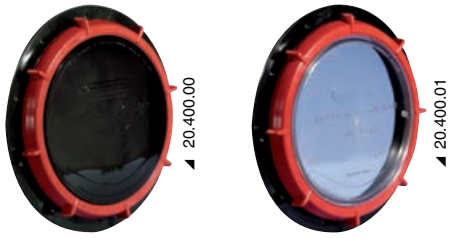


Watertight WHALE hatch, fitted with screw cover

Whale®

Fitted with nitrile seals; approved for lifeboats; made of **nylon**; it can bear a maximum internal pressure of 0,46 kg/cm² = 6,5 psi.

Code	Plug color	Ø Outer mm	Opening mm	Thickness mm	housing mm	holes on centre mm
20.400.00	black	236	180	32	187	212
20.400.01	transparent	236	180	32	187	212



► Compartments and deck fillers

Flush-mount plastic compartment for fuel plug housing

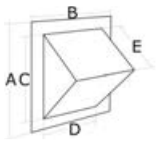
Made of hydrocarbon-resistant nylon

Code	Recess mm	Inner size mm	Frame mm	Colour
20.899.00	110x155	78	182x136	White
20.899.50	110x155	78	182x136	Black

Built-in compartment for Deck Filler

Fitted with hatch, made of hydrocarbon-resistant nylon.

Code	Version	Color	A mm	B mm	C mm	D mm	E mm	Symbol
20.900.01	Standard	White	190	148	150	113	71	Fuel
20.900.02	With lock	White	190	148	150	113	71	Fuel



Nylon deck fillers with built-in vent, snap-in opening

Code	Type	Colour	Base mm	Protrusion mm	Neck Ø mm
20.670.01	FUEL	White	110x70	18	38
20.670.02	WATER	White	110x70	18	38

◢20.669.02

◢20.669.04

Nylon/fiberglass white fuel plugs, made in accordance with EC standards

Code	Type	Cap colour	Flange Ø mm	Neck length mm	Neck Ø mm
20.669.02	FUEL	Red	88	65	50
20.669.04	FUEL	Green	88	65	38
20.669.05	WATER	Light blue	88	65	38

◢20.669.05

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Black nylon deck fillers

Code	Type	Ø Neck mm	Ø Cover mm	Neck length mm
20.868.02	WATER	38	89	65
20.868.03	DIESEL	50	89	65
20.868.04	FUEL	38	89	65
20.868.05	WASTE	38	89	65

Deck fillers CLEVER

Clever deck fillers made of composite and stainless steel

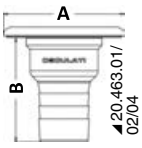
Body made of technopolymer and co-moulded mirror-polish stainless steel cover.
- Flush design.
- 1/4-turn quick opening (except Waste version).
- The lanyard can be replaced in case it breaks.
- Coloured inner star-shape element for unobtrusive yet effective detectability.

Waste version: 38/50 double diameter complying with the ISO 8099 standards.

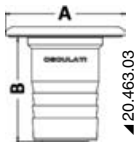
Code	Type	Neck Ø mm	Flange Ø mm	Projection mm	A mm	B mm	C mm
20.463.01	FUEL	50	88	8.5	92	80	-
20.463.02	WATER	38	88	8.5	92	80	-
20.463.03	DIESEL	50	88	8.5	92	80	-
20.463.04	FUEL	38	88	8.5	92	80	-
20.463.09	WASTE	38+50	88	8.5	92	123	85

◢20.463.09

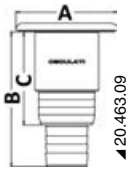
◢20.463.02



◢20.463.01/ 02/04



◢20.463.03



◢20.463.09

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◢20.463.01/04

◢20.463.02

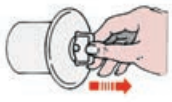
◢20.463.03

◢20.463.09

Chromed brass deck filler

Fitted with special opening system that avoids the use of keys, coins or any other device.
Designed to cover the flange **completely**, thus improving its watertight features.
Version fitted with straight or 30° sloped joint pin (to be used when the fueling surface is sloped, in accordance with **ISO 8099/1** standards).
Fitted with small internal chain, 88-mm max Ø. RINA type-approved.

Chromed brass deck filler				Chromed brass deck filler only with key without sleeve
Code	Type	Version	Neck Ø mm	
20.667.01	FUEL	Straight	50	20.668.21
20.667.02	WATER	Straight	38	20.668.23
20.667.03	DIESEL	Straight	50	20.668.22
20.667.04	FUEL	Straight	38	20.668.21
20.667.06	WASTE	Straight	38	-
20.667.07	WATER	Straight	50	20.668.23
20.667.08	FUEL	30° angle	38	20.668.21
20.667.09	FUEL	30° angle	50	20.668.21
20.667.10	WATER	30° angle	38	20.668.23
20.667.11	DIESEL	30° angle	50	20.668.22



◢20.667.02

◢20.667.01

◢20.667.11

◢20.667.03

◢20.668.21/22/23

Utility chromed brass deck filler for flush mounting with rotating opening lever

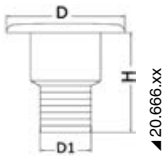
The special rotating lever opening system avoids the need for keys, coins, screwdrivers or any other device; certified by RINA.

Code	Type	Neck Ø mm
20.367.00	no writing	50
20.367.01	Fuel	50
20.367.02	Water	38
20.367.03	Diesel	50
20.367.11	Fuel	38
20.367.12	Water	50
20.367.13	no writing	38

◢20.666.xx

◢20.665.xx

◢20.666.09



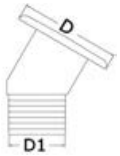
◢20.666.xx

Chromed brass filler cap

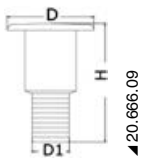
Hidden lever opening. Innovative system to prevent water ingress. 7-mm projection.

Code	Type	Version	Neck (D1) Ø mm	Flange (D) Ø mm	Length (H) mm
20.666.02	WATER	Straight	38	88	81
20.666.03	DIESEL	Straight	50	88	81
20.666.04	FUEL	Straight	38	88	81
20.666.09*	WASTE	Straight	38	88	115
20.665.02	WATER	Sloped at 30°	38	88	-
20.665.04	FUEL	Sloped at 30°	38	88	-

* *Conforming to ISO 8099, long neck.*



◢20.665.xx



◢20.666.09

◢20.668.01/05

◢20.668.10

◢20.668.21/22/23

Chromed brass deck filler with key

The key cover is also used as opening handle

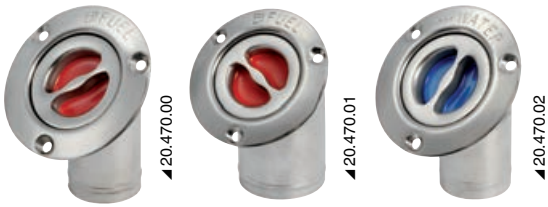
Chromed brass deck filler with key					Chromed brass deck filler only with key without sleeve
Code	Type	Version	Neck Ø mm	Outer Ø mm	
20.668.05	FUEL	Straight	38	95	**20.668.21**
20.668.01	FUEL	Straight	50	95	**20.668.21**
20.668.03	DIESEL	Straight	50	95	**20.668.22**
20.668.02	WATER	Straight	38	95	**20.668.23**
20.668.06	WASTE	Straight	38	95	**-**
20.668.08	FUEL	30° angle	38	95	**20.668.21**
20.668.09	FUEL	30° angle	50	95	**20.668.21**
20.668.10	DIESEL	30° angle	50	95	**20.668.22**
20.668.11	WATER	30° angle	38	95	**20.668.23**

Chromed brass fuel deck plug

3-hole ring screw mounting. Knurled finish plug for better grip.

Code	Neck Ø mm
20.155.00	60

◢20.467.01 ◢20.467.02 ◢20.467.03



◢20.470.00 ◢20.470.01 ◢20.470.02

Mirror polished stainless steel deck fillers, flush mounting, fitted with opening handle

Flush mount, deck plug opening handle; fitted with safety small chain, **new version with precision-cast plug**; available with straight joint pin or 45° inclined with respect to the vertical one (to be used **when the fuelling level is inclined**).

Code	Type	Version	Neck Ø mm	Flange Ø mm
20.467.01	FUEL	Straight	50	80
20.467.02	WATER	Straight	38	80
20.467.03	DIESEL	Straight	50	80
20.470.00	FUEL	With 45° angled fitting	38	80
20.470.01	FUEL	With 45° angled fitting	50	80
20.470.02	WATER	With 45° angled fitting	38	80

Precision cast mirror polished AISI 316 stainless steel Deck filler plugs Fuel, low profile

Clean **flat finish** (protrudes 6mm once installed). To be opened with a winch handle or with hex keys.

Code	Type	Neck Ø mm	cover Ø mm	neck width mm
20.450.01	FUEL	50	87	55
20.450.02	WATER	38	87	55
20.450.03	DIESEL	50	87	55
20.450.04	WASTE	38	87	55

20.715.10; 20.169.90; 20.714.01 *Opening key OPTIONAL*

OSCULATI

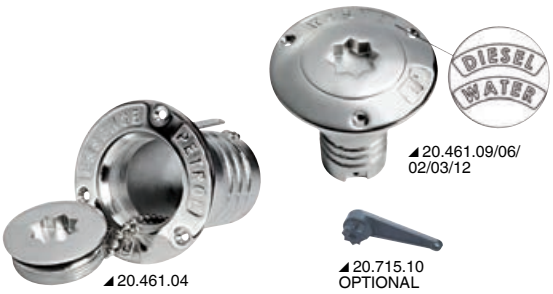
"Francia" Mirror-polished AISI 316 stainless steel deck fillers

With symbols in compliance with DIN standards. Opening by means of the winch handle hexagon.

Code	Type	Neck Ø mm	Flange Ø mm	Length mm	Notes
20.461.02	WATER	38	90	75	With key
20.461.03	DIESEL	50	90	82	With earth connection
20.461.04	ESSENCE/ PETROL	50	90	82	-
20.461.06	WASTE	50	90	75	Without chain
20.461.09	WASTE	38	88	114	Without chain
20.461.12	DIESEL	54	90	82	Beneteau/Jeanneau version up to 2017

20.715.10; 20.714.01 *Opening key OPTIONAL*

OSCULATI



AISI316 stainless steel deck filler

Precision cast and mirror polished, RINA certified. Opening lid, screws fully covered by the flange.

Code	Type	Neck Ø mm	Flange outer Ø mm	Key
20.568.21	FUEL	50	88	yes
20.568.22	WATER	38	88	yes
20.568.23	DIESEL	50	88	yes
20.568.06	WASTE	38	88	no
20.568.31	FUEL	38	88	yes

OSCULATI

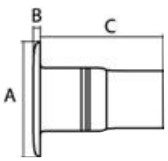
Precision-cast mirror polished AISI316 stainless steel deck filler

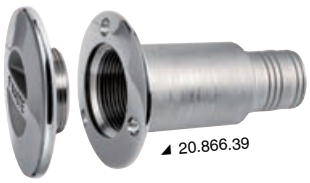
Flush-mount plug, invisible screws hidden by the deck filler cap.

Code	Type	Port Ø mm	A mm	B mm	C mm
20.866.23	WATER	38	84.5	12	76
20.866.35	WASTE	38	84.5	12	76
20.866.39*	WASTE	38	96.3	11	114
20.866.30	FUEL	38	84.5	12	76
20.866.31	DIESEL	50	95.5	12	81.5
20.866.32	FUEL	50	95.5	12	81.5

* *In compliance with ISO 8099, long neck*

OSCULATI

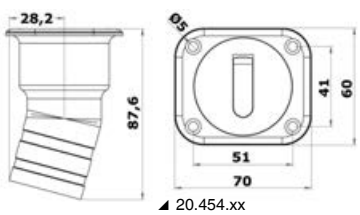


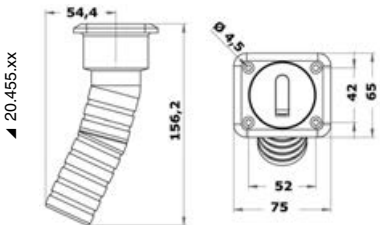


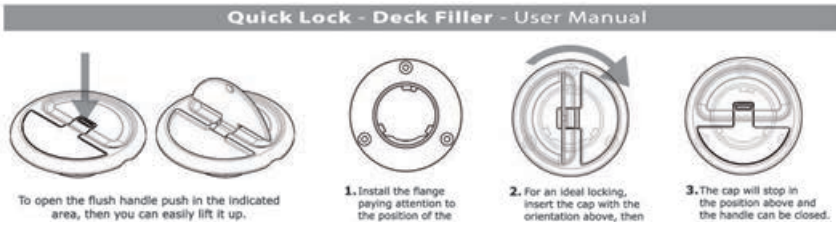
Square deck fillers

Tip-over opening system. Thin profile with only 3,5 mm thickness.
Made of mirror-polished AISI 316 stainless steel.

Short version	Long version	Hose Ø mm	Type
20.454.03	**20.455.03**	38	DIESEL
20.454.06	**20.455.06**	38	WASTE
20.454.02	**20.455.02**	38	WATER







OSCULATI

Quick Lock deck fillers

AISI 316

REGISTERED DESIGN / DISEGNO DEPOSITATO

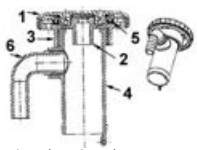
Technical characteristics: 45° rotation snap lock, 7.7-mm projection, hidden screws, stainless steel check cable with spring, fuel and diesel versions with earthing cable, made of mirror-polished AISI 316 stainless steel, DIN standard symbols.

Code	Type	Version	Neck Ø mm	Outside Ø mm	Neck thickness	With key
20.366.01	FUEL	Straight	50	94	81.9	**20.366.21**
20.366.02	WATER	Straight	38	94	82.5	**20.366.22**
20.366.03	DIESEL	Straight	50	94	81.9	**20.366.23**
20.366.04	FUEL	Straight	38	94	82.5	**20.366.24**
20.366.05	WASTE	Straight	38	94	82.5	-
20.366.09*	WASTE	Straight	38	94	82.5	-
20.366.11	FUEL	30°	50	94	96	**20.366.31**
20.366.12	WATER	30°	38	94	92	**20.366.32**
20.366.13	DIESEL	30°	50	94	96	**20.366.33**
20.366.14	FUEL	30°	38	94	92	**20.366.34**
20.366.15	WASTE	30°	38	94	92	-

* *In compliance with ISO 8099, long neck, screw thread (no chain)*

20.366.98 *Spare key.*

OSCULATI

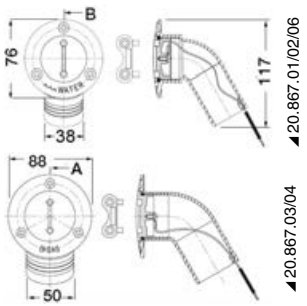


1 = plug; 2 = plug vent; 3 = ring nut; 4 = bush; 5 = gasket; 6 = tank plug

Mirror polished AISI 316 stainless steel refuel plugs, fitted with built-in vent

Fitted with special clever system, the plug neck can be mounted on the deck **with just one hole**

Code	Type	Neck Ø mm	Mounting hole Ø mm	Vent Ø mm	Plug Ø mm	Size mm	Mounting ring nut Ø mm
20.565.01	FUEL	38	50	16	82	14	74
20.565.02	WATER	38	50	16	82	14	74
20.565.03	DIESEL	38	50	16	82	14	74
20.565.05	DIESEL	50	50	16	82	14	74



Flush-mount deck filler

Mirror polished AISI316 stainless steel deck fillers, fitted with 30° elbow.
Plug opening with universal key type 20.169.90.

Code	Type	Neck Ø mm	Flange Ø mm
20.867.01	FUEL	38	76
20.867.02	WATER	38	76
20.867.03	FUEL	50	88
20.867.04	DIESEL	50	88
20.867.06	WASTE	38	76

Anti-theft device for filler plugs

Made of polished AISI 316 stainless steel, it fits all plugs on the market and can be installed without removing the existing plug by simply loosening the fastening screws.

Code	Writing
20.569.01	GAS
20.569.02	DIESEL

New Hose connector for waste deck filler ISO8840

To be screwed onto 1 1/2" thread filler caps, BPS for connection to the dock draining nozzles in compliance with ISO8840.

Code	For 1" 1/2" deck fillers
20.866.90	20.366.09; 20.450.04; 20.461.09; 20.463.09; 20.666.09; 20.667.06; 20.668.06; 20.866.39

► Deck filler keys

Universal plug keys

Code	Description
20.169.90	Made of **stainless steel**, designed to unscrew fuel filler cap

Handle suitable for opening fuel/water and locker plugs

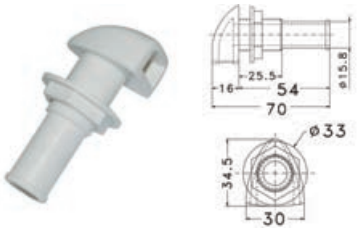
Code	Description
20.714.01	Made of **AISI 316 stainless steel**. Standard hexagon winch-type for sailboat.

Water/fuel plug opening fiberglass key

Code	Description
20.460.11	Hexagonal – To open 20.461.03. Recommended for Jeanneau/Beneteau diesel plugs from 2000 on.
20.715.10	Octagonal – Winch handle type recess, 100-mm length.

► Tank vents

Plastic vent



Made of **nylon** with double internal mesh.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Hose fitting Ø mm
20.283.00	16

ATTWOOD special fuel vent

CE

attwood

16-mm 90° hose adaptor and vent fitted with valve to **totally** prevent water from getting into the hull.
Nylon body, **polished stainless steel** outer part.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Hose fitting Ø mm
20.446.19	16

Elbowed fuel vent

CE

Made of **nylon**, fitted with double internal screen.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Hose fitting Ø mm
20.287.90	19

Chromed brass fuel vent

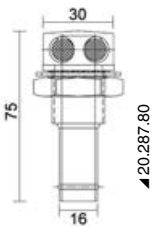
Splash-proof screen protection. Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

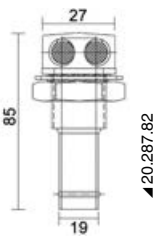
Code	Ø Hose adaptor mm
20.120.80	16
20.172.01	20

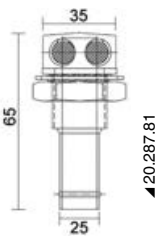
Mirror polished stainless steel fuel vent

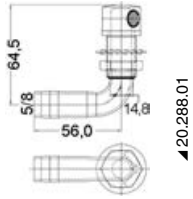
Fitted with fire-proof screen and hose adaptor.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

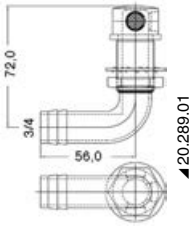
For pipe Ø mm	degree angle 90°	straight
16	**20.288.01**	**20.287.80**
19	**20.289.01**	**20.287.82**
25	-	**20.287.81**

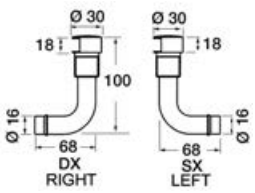












Chromed brass fuel vents with 90° hose adaptor

Fitted with flame-proof screen.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Direction	Hose adaptor Ø mm
20.287.91	right	16
20.287.92	left	16

◢20.284.01;
20.286.01

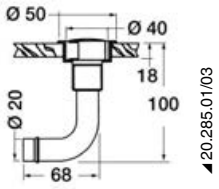
◢20.285.01/03

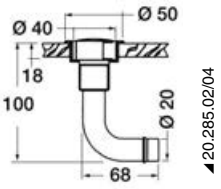
◢20.285.02/04

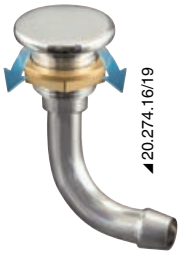
Chromed brass flush mount fuel vent

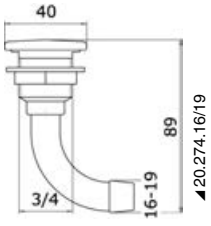
Fuel vents. Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

90° elbow, right	90° elbow, left	Straight	Hose adaptor Ø mm
20.285.01	**20.285.02**	**20.284.01**	16
20.285.03	**20.285.04**	**20.286.01**	20





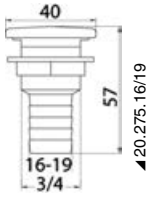


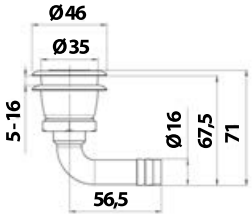


Full Flush chromed-brass fuel vent

The vent is located in the lower part for a completely closed design.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

90° model	Straight model	Hose adaptor Ø mm
20.274.16	**20.275.16**	16
20.274.19	**20.275.19**	20





Flush fuel vent made of stainless steel.

With flame-resistant grid.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Hose fitting
20.271.02	90°

◢ 20.272.01/02

◢ 20.273.01/02

Cast and mirror polished AISI316 stainless steel fuel vents

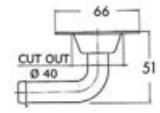
Fitted with flame-proof screen, detachable for easy maintenance.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Model 90°	Model straight	For pipe Ø mm	Bulkhead hole mm	Bulkhead thickness mm	Ø head mm
20.272.02	**20.272.01**	16	35	7/24	45
20.273.02	**20.273.01**	19	38	8/27	49

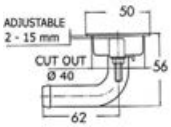
90° fuel vent made of stainless steel wire

Designed with a patented system, it is perfectly flush with the bulkhead and can be adjusted right or left. Chromelux finish. Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Fitting	Mounting hole mm	hose adapter mm	head Ø mm
20.267.60	with 3 screws	40	16	66
20.267.69	with 3 screws	40	19	66
20.267.61	invisible	40	16	50



◢ 20.267.60/69



◢ 20.267.61

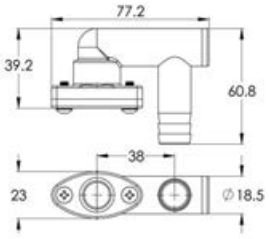
Mirror polished AISI 316 stainless steel fuel vent, fitted with anti-flood system

Fitted with **fire- and flood-proof screen**. **Made of nickel-plated micro-pore bronze**.
Designed in compliance with the requirements of the UNI EN ISO 21487 regulation.

Code	Hose adaptor for pipe size mm	Head Ø mm	Size mm
20.268.00	16	35	7.5

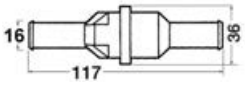
Vent trap

20.251.00 Made of polypropylene, it suits all 16-mm Ø vents and avoids water from flowing in.



Ecologic dual-function device to be fitted along the fuel piping system

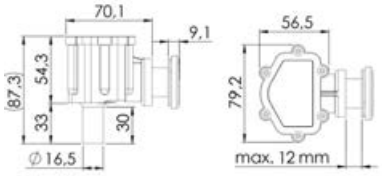
20.250.00 Features:
1) lets **only air** out and blocks the fuel when it arrives, therefore **it eliminates the need for fuel vent lines**; 2) when the fuel is near such device it makes a hissing sound and **signals a "full tank" level"**.

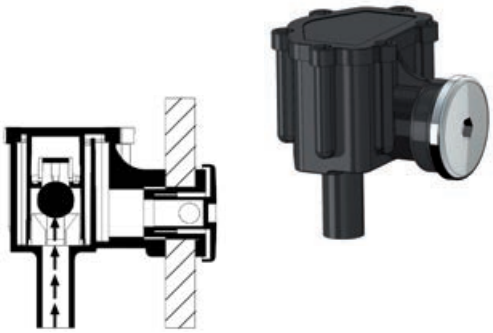


Fuel-Lock vent with trap to prevent water to flow back

Fuel-Lock lets air but not fuel out.
Fuel is locked inside by a trap system that removes marine pollution and streaks on the side.
An internal bulkhead device also avoids water to reach the tank through the vent.
Polished AISI 316 stainless steel external element, hydrocarbon-resistant copolymer polypropylene internal element.

Code	Hose adaptor for hose Ø mm
20.168.22	16





Anti-Froth funnel to be connected to the fuel filler cap

Designed to prevent foam and fuel overflowing when refuelling.
The device causes the foam to turn back into liquid, which then flows to the tank.

Code	For plugs Ø mm
20.364.00	38/50

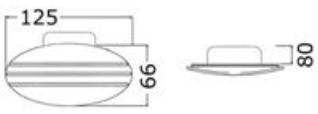
► Flush mount horns

OSCULATI

Flush mount foldable horn

It is usually mounted on the gunwale, a small **white ABS** front panel appears on the outside. Monting from the outside.

Code	V	Power	Frame mm	Recess mm
21.102.05	12	100 dB	125x66	85x50x80 (depth)

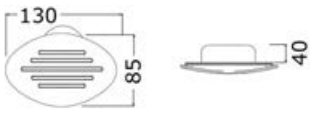


OSCULATI

Flush mount foldaway horn

White ABS body, mounting from the outside.

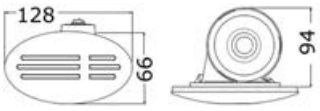
Code	V	Power	Frame mm	Recess Ø mm
21.102.20	12	105 dB	130x85	70x40 (depth)



Hidden built-in horn

Black and white front panel. All-**stainless steel** body.

Code	V	Power	Front panel mm	Recess mm
21.402.30	12	112 dB	128x66	84x43x94 (depth)

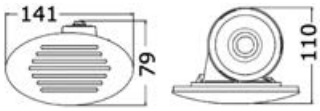


Flush-mount foldaway horn with spiral amplifier

OSCULATI

ABS body, white grill; this diaphragm horn with **spiral amplifier** can emit a very powerful sound (acoustic range of 112 d.b., double power of 105 d.b.).

Code	V	Power	Frame mm	Recess mm	Inner size mm
21.101.00	12	112 dB	141x79	96x60	110



Sound built-in horn

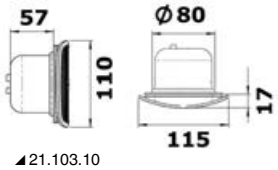
OSCULATI

REGISTERED DESIGN / DISEGNO DEPOSITATO

High-power horn with excellent sound yield.
UV-resistant white ASA removable front panel and integral case.
Mounting from the outside.

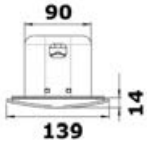
Code	Version	V	A	Power	Front panel		Recess mm
					Finish	mm	
21.103.00	Oblong	12	1.5	105 dB	White ASA	139x79	90x55x85 (depth)
21.103.10	Round	12	1.5	105 dB	White ASA	115x110	Ø 80 x 57 (depth)

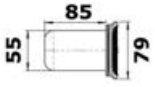
◢21.103.00



◢21.103.10

◢21.103.10





◢21.103.00

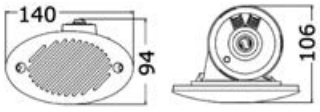
◢21.103.00

FIAMM built-in horn

FIAMM

Easy and fast mounting; preinstalled gasket, **plastic** parts, 5-year warranty against UV-ray yellowing.

Code	V	Power dB	Frame		Recess mm
			finish	mm	
21.100.01	12	115	White	140x80	90x60x95 (depth)
21.100.20	12	115	Polished SS	140x80	90x60x95 (depth)



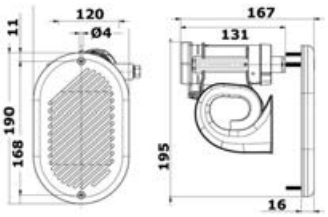
◢21.100.20

◢21.100.01

Electropneumatic HURRICANE horn with internal compressor into the trumpet

No wiring for the air hose.

Code	Initials	V	dB a 1 m	A	Recess trumpet mm	Frame type
21.454.12	HR1	12	120	18	202x120	white
21.455.12	HR1/C	12	120	18	202x120	chromium plated
21.455.24	HR1/C	24	120	9	202x120	chromium plated



◢21.454.12

◢21.455.12/24

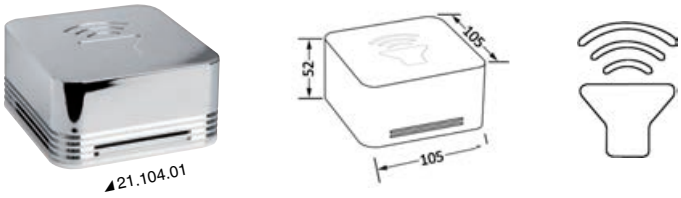
► Horns and bullhorns

OSCULATI

Q BOX diaphragm horn

ABS frame, front assembling.

Code	Version	V	Power	⟷ mm
21.104.00	White	12	109 dB	105x105x52
21.104.01	Chromed	12	109 dB	105x105x52



Aerodynamic diaphragm horn

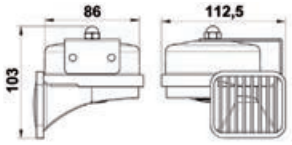
Stainless steel support, ABS case, compact line.

Code	Finish	V	Current draw A	Power dB	⟷ mm
21.450.00BI	White + chromed ABS	12	4.5	114	100x155x70
21.450.00NE	Black + chromed ABS	12	4.5	114	100x155x70
21.449.00	White ABS	12	4.5	114	100x155x70

Very powerful diaphragm horn

Chromed ABS body with mirror-polished stainless steel support. Single horn power: 115 + - 5 dB.

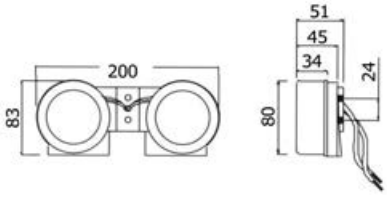
Code	Model	Tune	V	A
21.451.40	single	low frequency	12	8
21.451.42	double	low + high frequency	12	16



Compact diaphragm horn

Mirror-polished stainless steel body + ABS base. Single horn power: 110 ± 5 dB.

Code	Model	Tune	V	A
21.451.52	Double	Low + high	12	4



Trumpet-style diaphragm horn

Made of stainless steel. Single- or dual-tone sound.

Code	No. of horns	Db	V	⟷ mm
21.452.03	1	115	12	395x100 (width)
21.452.04	2	115	12	455x190 (width)

Diaphragm horn

Body in mirror polished stainless steel and chromed ABS horn. Single- or dual-tone sound.

Code	No. of horns	V	Length mm	Body Ø mm
21.452.06	1	12	210	82.5
21.452.07	2	12	210+268	82.5

Chromed brass horn with compressor for boats up to 20 m

Made of chromed brass, fitted with compressor and mounting kit.

Code	V	Horns	Length mm	Width mm	dB	Standard for boats up to
21.442.12	12	1	241	89	120±5	20 m
21.442.24	24	1	241	89	120±5	20 m
21.443.12	12	2	241	127	120±5	20 m
21.443.24	24	2	241	127	120±5	20 m

21.442.12/24

21.443.12/24

21.443.12/24

FIAMM trumpet horn with compressor

Very POWERFUL double **stainless steel** horn.

Code	No. of horns	V	Horn cm
21.465.12	2	12	37/43
21.465.24	2	24	37/43

FIAMM horn model BORA with compressor,

Very powerful heavy sound, with **stainless steel** horns.

Code	No. of horns	V	Horn length cm	Audible up to
21.469.12	1	12	37	1600 m
21.469.24	1	24	37	1600 m

Chromed ABS trumpet horn with compressor

Very powerful, fine design and very sturdy.

Code	No. of horns	Initials	V	Length mm
21.451.12	1	MA1-C	12	390
21.451.24	1	MA1-C	24	390

MARCO brass horn with compressor

Type approved RINA, suitable for pleasure boats over 12 metres and for commercial boats (fishing or similar) from 12 to 20 metres;**white lacquered brass** horn.; includes compressor and mounting accessories.

Code	Initials	Finishing	V	Type	Length mm	Ø mouth mm
21.440.12	PW2	white paint	12	Classic	460	200
21.440.24	PW2	white paint	24	Classic	460	200

21.441.01

21.441.09

MARCO brass horn

RINa, LLoyd's, Bureau Veritas type-approved.
It works with onboard compressed air or dedicated compressor.

Code	Initials	Item	V	dB	Type-tested for boats m	⟷ mm
21.441.01	PW3	Horn - white paint	24	132	20/75	465x300
21.441.02	PW3-BC	Horn - chromed	24	132	20/75	449x300
21.441.09	M3	Compressor	24	-	-	368x380x192

21.441.02

SUPERCELERE electric siren

Made of nylon, range 800/1000 metres, very powerful sound.

Code	V	Hz frequency	Power	⟷ mm
21.466.00	12	900	113 dB at 1 m	185x156x140
21.466.01	24	900	113 d.b. at 1 m	185x156x140

MARCO electronic horn, easy mounting

Includes **mirror polished stainless steel** bracket; easy installation, only requires for 2 horn wires to be connected into the control unit; type **approved RINA** for pleasure boating (Ministerial Order 5/9/90) and boats from 12 to 20 metres.

Code	Initials	V	Loudspeaker Ø mm	Length mm
21.430.12	EW2	12	239	250
21.430.24	EW2	24	239	250

21.433.36

MARCO electronic horn with amplifier, suitable for boats from 12 to 20 metres

Electric horn, easy mounting, only requires for 2 horn wires to be connected into the control unit; supplied with **mirror polished stainless steel** bracket; fitted with **voice amplifier device used to transmit vocal messages + automatic fog signal + VHF input**; it includes microphone; RINA type-approved for pleasure and fishing boats from 12 to 20 metres.

Code	Initials	V	Additional function
21.431.12	EW2-M	12	-
21.431.24	EW2-M	24	-
21.431.30	EW2-MS	12	Siren
21.431.34	EW2-MS	24	Siren

21.432.00 *Additional control panel to control electronic hoots from a second station.*
21.433.36 *Standard MIC2 microphone for EW type-tested hoots.*

21.433.36

MARCO electric horn with amplifier, suitable for boats from 20 to 75 metres

It includes **amplifier, fog signal, VHF input, microphone input.** RINA-type approved for boats up to 75 metres, either **pleasure or fishing** boats. It includes microphone.

Code	Initials	V	Loudspeaker Ø mm	Length mm
21.433.24	EW3-M	24	325	437
21.433.34	EW3-M	24	-	-

21.432.00 *Additional control panel to control electronic hoots from a second station.*
21.433.36 *Standard MIC2 microphone for EW type-tested hoots.*

MARCO multifunction electronic horn/whistle

Functions: - Horn - VHF input - Automatic fog signal - Microphone.
Includes water-proof speakers, stainless steel bracket, control microphone; type-approved for boats up to 12 metres.

Code	Initials	V	Power	Protection	⟷ mm
21.427.12	EMH-M	12	112 dB	IP66	154x121x132
21.427.24	EMH-M	24	112 dB	IP66	154x121x132

MARCO electronic multifunction horn/whistle with encodable signals

Functions:
- Horn - 2 AUX inputs (VHF + stereo) - Automatic fog signal - Microphone - Emergency siren with pre-codified POLICE, FIRE DEPARTMENT, AMBULANCE signals + more codifiable signals.

Includes 2 water-proof speakers, stainless steel brackets and a microphone; especially suitable for public transportation, harbour offices, fire fighters, policemen, tourist boats, etc..

Code	Initials	V	⟷ mm	Protection
21.428.12	EMH-2	12	154x121x132	IP66
21.428.24	EMH-2	24	154x121x132	IP66

MARCO additional control panel

Suitable for controlling electronic whistles from other stations. It includes microphone and watertight connector. Suitable for items 21.431.12; 21.431.24; 21.433.24; 21.427.12; 21.427.24; 21.428.12; 21.428.24.

Code	Description
21.432.00	IP67 control panel for electrical hazards

Acoustic and attention alarm

Watertight intermittent alarm ideal for signalling the opening of hatches, davits, engine housings, garages, tenders, etc.

Code	volt	Power	⟷ mm
21.464.00	12/24	105dB	101x73x40

Super-compact electronic megaphone

fUnctions. megaphone + siren + hoot.

Code	W	Range		Ø mouth mm	Power	Duration	⟷ mm	kg
		in urban areas m	outdoor m					
21.323.01	20	300	900	130	8 x AA 1.5 V	8 hours	130x250	0.7

Professional electronic bullhorn

Functions: **bullhorn + siren** + whistle.

Code	Power W	Capacity		Length mm	Ø mouth mm	Power	Run time	kg
		in urban area m	outdoors m					
21.324.00	30	350	1000	375	221	6 batteries da 1,5 V halftorch (CM1)	8 h	1.6

► Bells and foghorns

Brass bells

Fitted with swivelling bracket in only one direction.

Code	Ø mouth mm
21.222.80	100
21.222.90	150
21.222.30	175

Type-approved chromed brass bell

Code	Ø mouth mm
21.202.90	150
21.202.91	175

Sonorous bronze bell

High gloss polished bronze bell, includes bayonet bracket and striker.

Code	Ø mouth mm
21.530.00	100
21.530.01	150
21.530.02	175

Brass ship's bell

Mirror polished, includes bayonet bracket and striker; **type-approved RINA**, suitable for pleasure boating and Merchant Navy.

Code	Ø mouth mm	Type-approved for hulls
21.532.00	210	from 12 to 20 metres
21.533.00	300	over 20 metres

Japanese hand pressure chromed brass fog horn

21.453.02 Twisted horn for a deep and pleasant sound.

Japanese hand pressure chromed brass fog horn

21.453.01 Has a more ringing sound than horn 21.453.02.

Fog horn

Code	Material	Length cm
21.462.00	SS	18.5

Fog horn

Compulsory under French safety standards.

Code	Material	Length cm
21.462.30	Plastic	29.6

Whistle for life vests

RINA type-approved.

Code	Type	Material	Colour	Length cm
21.755.00	Standard	Plastic	Orange	6.8

Boatswain's call

Code	Material	Length cm
21.482.00	Brass	14

Referee's whistle (powerful treble)

Code	Material	Length cm
21.483.00	Chromed brass	4.5

Fog whistle

Code	Material	Length cm
21.484.00	Chromed brass	8

► Gas Fog Horns

Super gas horn

Filled with **non flammable environmentally-friendly gas.**
Horn/bottle coupling by means of a high-resistance **thread**.

Code	Description
21.459.00	Bottle 200 ml + long horn
21.459.01	only spare bottle capacity 200 ml.

COMPACT gas horn

Charged with **non flammable environmentally-friendly gas.**
Horn/bottle coupling by means of a high-resistance thread.

Code	Description
21.461.00	Bottle 200 ml + horn length 108 mm
21.459.01	Spare bottle 200 ml

Big gas horn

Charged with **non-flammable** gas.
Horn/bottle **snap** coupling.

Code	Description
21.457.00	Gas horn with 300-ml bottle, **made in accordance with DM 5/9/90 Enclosure II**. Acoustical level 100 db, **aluminium** inner core.
21.457.01	Spare bottle capacity of 300 ml., loaded with **ecological non-flammable gas**.

Portable gas trumpet

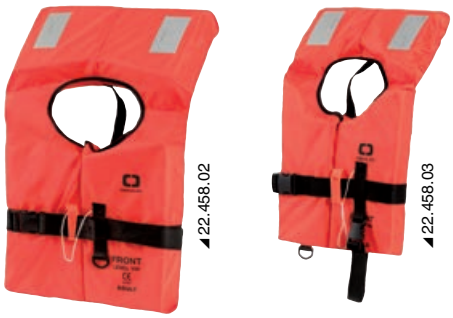
Code	Description
21.456.00	TA1R RINA type-tested for pleasure boats up to 50 metres. Replaces bell types: 21.532.00, 21.533.00 only for pleasure boating.

Eco-friendly compressed air horn

Hand-operated via the plunger on the bottom of the cylinder.
Fitted with double nozzle to be also used as inflator for fenders and balls.

Code	Db	⟷ mm	
		bottle	horn
21.458.00	100	Ø 50x160	Ø 75x190

► Personal floatation device complying with EN ISO 12402 standards



ITALIA 7 basic lifejacket - 100N (EN ISO 12402-4)

Orange colour, soft foam, quick release buckle, compact structure for better stowage. Whistle and reflective tapes included.

Code	Colour	Size
22.458.02	orange	Adults (over 40 kg)
22.458.03	orange	Junior (15 to 40 kg)

Bag for lifejackets

Clear PVC bag for 4 lifejackets 100N (type 22.458.02). Transpirable net for ventilation.

Code	⟷ cm
22.409.30	38x30x31 h

OSCULATI

Isabel lifejacket 100N (EN 12402-4)

Certified in compliance with the new UE 2016/425 standards.
Made from high visibility fabric and soft foam.
Fitted with type-tested whistle and reflective tapes.
Thigh strap + reflective tapes with snap buckle. Ergonomic collar.

Code	Colour	Size		Type
22.465.01	orange	To 15 kg	Baby XXS	With knickers
22.465.02	orange	From 15 to 30 kg	Baby XS	With knickers
22.465.03	orange	From 30 to 40 kg	S	-
22.465.04	orange	From 40 to 50 kg	M	-
22.465.05	orange	From 50 to 60 kg	L	-
22.465.06	orange	From 60 to 70 kg	XL	-
22.465.07	orange	Over 70 kg	XXL	-

OSCULATI

SV-100 lifejacket - 100N (EN ISO 12402-4). Top Quality model

Soft foam, front zip, quick release buckle. Whistle and reflective tapes included.
Modular collar for better protection of the head.

Code	Colour	Size	Type
22.483.45	orange	Kids up to 15 kg	With thigh strap
22.483.60	orange	Kids 15 to 30 kg	With thigh strap

FLORIDA 7 basic lifejacket - 150N (EN ISO 12402-3)

Soft foam, quick release buckle, compact structure for better stowage.

Code	Colour	Size
22.459.02	Orange	Adults (over 40 kg)
22.459.03	Orange	Junior (30-50 kg)

Aurora lifejacket 150N (EN 12402-3)

Certified in compliance with the new UE 2016/425 standards.
Made from high visibility fabric and soft foam.
Fitted with type-tested whistle and reflective tapes.
Thigh strap + reflective tapes with snap buckle. Ergonomic collar.

Code	Colour	Size		Type
22.466.01	Orange	Up to 20 kg	Baby XXS	With knickers
22.466.02	Orange	20 to 30 kg	Baby XS	With knickers
22.466.03	Orange	30 to 40 kg	S	-
22.466.04	Orange	40 to 50 kg	M	-
22.466.05	Orange	50 to 60 kg	L	-
22.466.06	Orange	60 to 70 kg	XL	-
22.466.07	Orange	Over 70 kg	XXL	-

OSCULATI

150

SV-150 lifejacket - 150N (EN ISO 12402-3). Top Quality model.

Soft foam, front zip. Whistle and reflective tapes included. Modular collar for better protection of the head.

Code	Colour	Size	Type
22.482.45	orange	Kids up to 15 kg	with pants
22.482.60	orange	Kids 15 to 30 kg	with pants

OSCULATI

150

Aqua Sailor buoyancy aid - 50N (EN ISO 12402-5)

Ideal for use on sailboats and canoes. Soft foam, folding bottom for better comfort when sitting.

Code	Colour	Size	
22.476.01	yellow/blue	25 to 40 kg	Junior
22.476.02	yellow/blue	40 to 60 kg	S
22.476.03	yellow/blue	over 60 kg	M/L
22.476.04	yellow/blue	over 70 kg	XL

OSCULATI

50

Dominator Ski buoyancy aid - 50N (EN ISO 12402-5)

Soft foam, fluo colours, perfect fit.

Fluo yellow/black	Fluo red/black	Size	
22.473.01	**22.474.01**	25 to 40 kg	Junior
22.473.02	**22.474.02**	40 to 60 kg	S
22.473.03	**22.474.03**	Over 60 kg	M/L
22.473.04	**22.474.04**	Over 70 kg	XL

OSCULATI

50

Canoe buoyancy aid - 50N (EN ISO 12402-5)

Specific for canoes, it allows free movements, technical product.

Code	Colour	Size
22.492.00	red	One size fits all adults

OSCULATI

50

► Self-inflatable personal floatation devices complying with EN ISO 12402-3 standards

OSCULATI

Fun self-inflatable lifejacket 150 N (EN ISO 12402-3)

Lifejacket for adults (minimum 40 kg).

Code	Activation	Colour	Size	Bottle + spare valve
22.398.12	Manual	Red	One size fits all - adult	**22.401.10**
22.398.13*	Automatic	Blue	One size fits all - adult	**22.398.14**

* *UML activator - 33-g bottles*

OSCULATI

SAIL self-inflatable lifejacket - 165 N (EN ISO 12402-3)

Fitted with safety harness complying with ISO 12401 standards.
Model for adults with thigh strap.

Code	Activation	Colour	Bottle + spare valve
22.396.04	Automatic	Red	**22.398.14**

UML activator - 33-g bombs

OSCULATI

Security self-inflatable lifejacket with HAMMAR hydrostatic inflation - 165 N (EN ISO 12402-3)

Fitted with **safety harness complying with ISO 12401 standards**. The HAMMAR MA1 hydrostatic automatic inflater prevents the jacket from unwanted inflation, as it happens with traditional inflating systems that activate when coming into contact with water. The HAMMAR system activates only with hydrostatic pressure (immersion of at least 15 cm in water). Model for adults with thigh strap.

Code	Activation	Colour	Bottle + Hammar MA1
22.395.00	Hammar automatic	Red	**22.395.10**

Hammar activator - 33-g bomb

OSCULATI

Professional self-inflatable lifejacket 180N (EN ISO 12402-3)

180N buoyancy (20% more than the standards). Ergonomic shape with collar. Buckles with quick release and adjustment. 2 thigh straps. Double connection for safety harnesses **in compliance with ISO 12401 standards**. Automatic or manual activation, with clear window to check the device correct fastening. Model for adults.

Code	Colour	Bottle + spare valve		OPTIONAL SOLAS warning light
		for lifebuoys made up to 04/19	for lifebuoys made up to 05/19	
22.397.00	Black	22.397.10	22.397.11	22.409.26

Sail Pro self-inflating lifejacket - 180N (EN ISO 12402-3)

OSCULATI

Hammar hydrostatic automatic self-inflation (avoiding all possibility of unwanted automatic inflation). Integrated safety harness complying with ISO 12401 standards.

25% more compact than traditional self-inflating lifejackets, easier movements.
Bag with automatic zip closure: lighter, more compact, faster opening and closing than with hook&loop fastener.
With thigh strap.

Code	Activation	Outside colour
22.394.00	Hammar automatic	Black

22.394.10 *Fluo water/wind spray hood OPTIONAL.*
22.395.11 *38-g spray can + Hammar MA1*
22.409.23 *Automatic electronic signaller.*

◢ 22.394.10

◢ 22.394.00

Premium self-inflatable lifejacket - 300 N (EN ISO 12402-2)

OSCULATI

Designed for the toughest conditions. 300N buoyancy for utmost safety even when wearing boots, waterproof garments, etc. and allowing a very fast body rotation. HAMMAR hydrostatic activation that prevents unwanted inflation (possible with traditional activation systems).
OPTIONAL ISO 12402-8 Fluo spray hood (22.394.10). Safety harness **complying with ISO 12401 standards**. Comfortable padded collar. Fitted with thigh strap.

Code	Activation	Colour	Spare bottle (60 g) + HAMMAR MA1 valve
22.393.00	HAMMAR automatic	Black	**22.393.01**

22.394.10 *Water-/wind spray hood*
22.409.23 *Automatic electronic signaller.*

275

◢ 22.394.10

◢ 22.393.00

Baby self-inflatable lifejacket - 150 N (EN ISO 12402-3)

OSCULATI

CE For children over 15 kg. Fitted with thigh strap and **safety harness complying with ISO 12401 standards.**

Code	Activation	Colour	Bottle + spare valve
22.399.01	Automatic	Red	**22.399.15**

UML activator - 24-g bottles

150

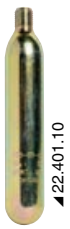
Service kit for self-inflatable lifejackets

Bottle and universal spare valve kit for self-inflatable lifejackets

Code	Bottle	Activation	Use
22.401.10	33 g	no	150 newton manual
22.398.14	33 g	UML-5	150 newton automatic
22.395.10	33 g	HAMMAR	150 newton automatic
22.397.10	38 g	UML-5	180 newton automatic
22.397.11	38 g	UML Pro Sensor Elite	180 newton automatic
22.399.15	24 g	UML-5	Baby automatic
22.395.11	38 g	HAMMAR	180 newton automatic
22.397.60	60 g	UML-5	MOB, Dan buoy, etc.

◢ HAMMAR

◢ UML-5


◢ 22.401.10

► MED-approved lifejackets

WORLDLIFE 8 MED-approved lifejacket, IMO resolution MSC.200(80)

RINA-approved for merchant navy.
Made in compliance with the new IMO MSC.200(80) regulations.

Code	Colour	Size	Type
22.411.01	red	over 40 kg	adults
22.411.02	red	16 to 43 kg	youths
22.411.03	red	up to 15 kg	kids

► MED (Marine Equipment Directive) type-tested ring lifebuoys / Italian Ministerial Decree 385/99

OSCULATI

MED-approved ring lifebuoy

Made of **orange Eltex** filled with polyurethane foam. Fitted with reflective tapes.
RINA-approved for merchant boats within and beyong the straits.
It conforms to Ministerial Decree 385/99 for pleasure boating.

Code	Ø cm	OPTIONAL cover
22.407.00	35x60	22.406.87; 22.406.88; 22.406.89

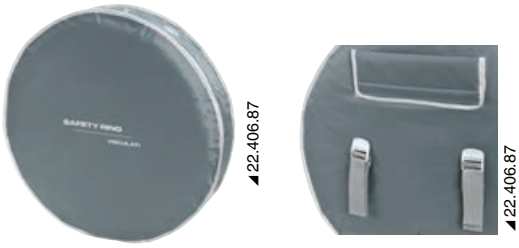
OSCULATI

Cover for ring lifebuoys 22.407.00

UV RESISTANT

Padded double-layer polyurethane-coated fabric. Fitted with adjustable straps for mounting on the pulpit. Zip closure. Floating rescue light (30.584/583.00) + type-approved rope 22.408.06 can be stowed inside the straps.

White	Blue	Grey	For lifebuoy
22.406.88	**22.406.89**	**22.406.87**	**22.407.00**



Ring lifebuoy (it conforms to the old Ministerial Decree 20/4/78)

Code	Description
22.407.02	Made of **orange Eltex**, filled with polyurethane foam, **35x60 cm** Ø.

22.407.11 *Optional rear reflective tapes.*

Reflective tape kit

Code	Length	For lifebuoys
22.407.11	40 cm each	22.407.02

MED-approved ring lifebuoy

RINA-certified for merchant ships within and beyond straits, and for pleasure boats in compliance with the Italian Ministerial Decree 385/99.

Code	Version	Ø cm
22.407.04	traditional	45x75

Ring lifebuoy

For pleasure boats in compliance with the Italian Ministerial Decree D.M. 385/99.

Code	Version	Ø cm	OPTIONAL ring lifebuoy strings	OPTIONAL floating rescue light
22.439.01	Super-compact	40x64	-	-
22.439.02	Super-compact with rescue light housing	40x64	**22.434.02**	**30.432.00**

Ring lifebuoy accessories

Nylon straps with hook&loop fastener, housing for Sealux floating rescue light 30.432.00. Fitted with clamp 37.175.81 for fixing on tube.

Code	For ring lifebuoys
22.434.02	22.439.02

SEALUX electronic floating rescue light

30.432.00 It automatically activates when it touches water but it doesn't when wetted by rain, no matter in which position it is kept. Approved for pleasure boating (Ministerial Decree 385/99).

Ring lifebuoy with accessories

Fitted with Sealux floating rescue light 30.432.00, holding strap and type-approved rope for up to 400kg.

Code	Version	With lifejacket	Ø cm
22.439.03	Super-compact	**22.439.02**	40x64

► Horseshoe lifebuoys

OSCULATI

Horseshoe lifebuoy conforming to Ministerial Decree 385/99

Made of **orange polyethylene** filled with **polyurethane foam. It conforms to Ministerial Decree 385/99 for pleasure boating**.

Code	Ø cm	OPTIONAL ABS case	OPTIONAL support
22.420.00	35x60	22.420.02	22.418.01

OSCULATI

Horseshoe lifebuoy supplied with accessories conforming to Ministerial Decree 385/99

W**hite ABS** case to be hung to the pulpit or on the bulkhead. Quick opening.

Code	Description
22.420.01	Lifebuoy 22.420.00 + floating rescue light 30.584.00 + rope 22.408.06 all fitted into a **white ABS** case designed to be hung to the pushpit or to the bulkhead. Quick opening; for pulpit mounting order 4 clamps models 37.175.81 or 37.261.01 or 37.264.02
22.420.02	White ABS case, only

OSCULATI

22.430.05

IMPROVED QUALITY

22.430.05

Bag for horseshoe lifebuoys 22.420.00

UV RESISTANT

Padded double-layer polyurethane-coated fabric. Fitted with adjustable straps for mounting on the pulpit. Zip closure. Floating rescue light (30.584/583.00) + type-approved rope 22.408.06 can be stowed inside the straps.

White	Blue	Grey	For lifejacket
22.430.04	**22.430.05**	**22.430.06**	**22.420.00**

22.430.06

22.430.05

OSCULATI

Soft horseshoe lifebuoy. 100% thickness

Made of **soft ethafoam covered** with PVC.
Versions:
- **Standard**: lifebuoy only. **It can be fitted with** stainless steel bracket or with a PVC cover to be fastened to the pulpit with adjustable straps.
- **Accessorized**: fitted with stainless steel bracket 22.418.00 + floating rescue light 30.583.00.

22.418.00

30.583.00

Code	Ø cm	Version	Colour	Bracket + rack + floating rescue light	OPTIONAL fabric cover			⟷ cm
					white	blue	grey	
22.416.00	55	Standard	White	22.418.00+30.583.00 **OPTIONAL**	**22.424.31**	**22.424.32**	**22.424.33**	50x50x10
22.416.01	55	Standard	Yellow	22.418.00+30.583.00 **OPTIONAL**	**22.424.31**	**22.424.32**	**22.424.33**	50x50x10
22.416.02	55	Standard	Orange	22.418.00+30.583.00 **OPTIONAL**	**22.424.31**	**22.424.32**	**22.424.33**	50x50x10
22.419.00	55	Accessorized	White	22.418.00+30.583.00 **INCLUDED**	**22.424.31**	**22.424.32**	**22.424.33**	50x50x10
22.419.01	55	Accessorized	Yellow	22.418.00+30.583.00 **INCLUDED**	**22.424.31**	**22.424.32**	**22.424.33**	50x50x10
22.419.02	55	Accessorized	Orange	22.418.00+30.583.00 **INCLUDED**	**22.424.31**	**22.424.32**	**22.424.33**	50x50x10

Horseshoe lifebuoy with pull-out cover. 80% thickness.

Made of **soft foam** covered with UV-resistant polyester fabric. Fitted with zipper to pull out the cover for washing purposes.

Code	⟷ cm	Colour	Optional		
			inox bracket	Floating rescue light A*	Floating rescue light B*
22.413.01	55x50x8	White	**22.418.00**	**30.584.00**	**30.583.00**
22.413.02	55x50x8	Orange	**22.418.00**	**30.584.00**	**30.583.00**

* *The personal floatation device can be equipped with either the traditional floating rescue light 30.584.00 or the electronic floating rescue LED light 30.583.00.*

Bag for horseshoe lifebuoy 22.413.01/02

Made of UV-resistant polyester fabric. Fitted with straps to fix it to the pulpit.

Code	Description	Colour
22.413.21	Only cover	White
22.413.22	Only cover	Blue
22.413.23	Only cover	Grey

Horseshoe lifebuoy kit 22.413.02 including accessories and case

Fitted with floating rescue light 30.583.00 and regulatory rope 22.408.06. It comes in a **polyester** bag 22.413.21/22/23.

Code	Description
22.413.31	**Horseshoe lifebuoy** with accessories **+ white cover**
22.413.32	**Horseshoe lifebuoy** with accessories **+ blue cover**
22.413.33	**Horseshoe lifebuoy** with accessories **+ grey cover**

Horseshoe lifebuoy 22.416.02 with accessories + cover

OSCULATI

Supplied with floating rescue light 30.583.00 and type-approved rope for up to 400 kg 22.408.06, all fitted into a **PVC/polyester** fabric cover with a hook&loop fastener. It can be fasten to the pulpit using adjustable straps.

Code	Description
22.424.01	**Horseshoe lifebuoy** with accessories **+ white cover**
22.424.02	**Horseshoe lifebuoy** with accessories **+ blue cover**
22.424.03	**Horseshoe lifebuoy** with accessories **+ grey cover**

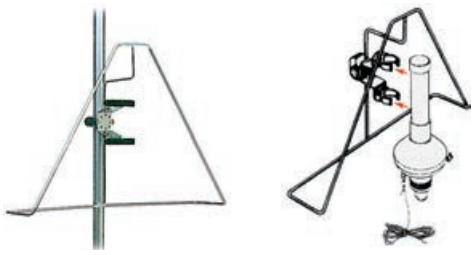
Cover for item number 22.416.xx

UV RESISTANT

Cover made of PVC/polyester fabric. This elegant cover protects the lifebuoy and the floating rescue light against severe weather conditions and is ideal for tidy stowage.

Code	Description	Colour
22.424.31	Only cover	White
22.424.32	Only cover	Blue
22.424.33	Only cover	Grey

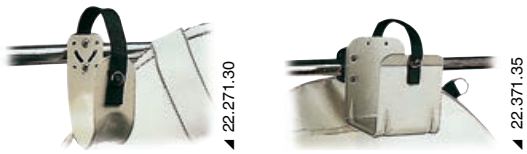
► Brackets for personal rescue devices



Brackets for horseshoe lifebuoys

Made of **stainless steel** with bracket for floating rescue light (30.584.01).

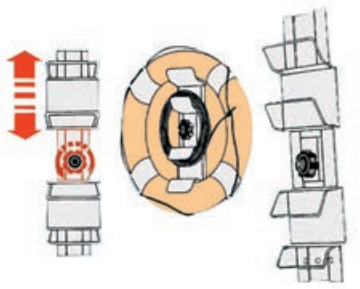
Code	For lifebuoys
22.418.00	22.416.00; 22.416.01; 22.416.02 or similar
22.418.01	22.420.00



Universal bracket for lifebuoys

Made of epoxy-powder coated aluminium with ribbon. For 22/25-mm Ø tubes or bulkhead mounting.

Code	For lifebuoys
22.271.30	ring lifebuoys
22.371.35	horseshoe lifebuoys



Adjustable bracket for ring lifebuoys and installation kit

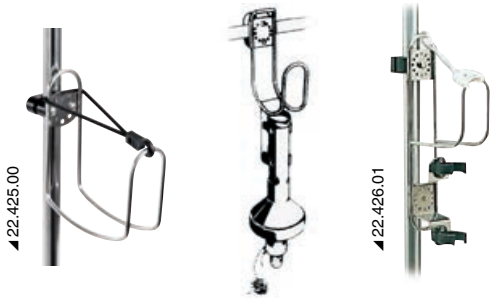
Code	Description
22.428.01	Adjustable SS bracket, bulkhead mounting, designed to hang ring lifebuoys of any size and their type-approved rope.
22.428.03	Square bracket designed for installation of floating rescue light 30.584.01 on item 22.428.01.

Telescopic bracket for ring lifebuoys

Made of **polished stainless steel**. Designed for bulkhead mounting or for fitting on the pulpit (20/22-mm tubes) with special clamps. **Ring lifebuoy + floating rescue light 30.583.00 + rope 22.408.06** can be stowed on the bracket.

Code	For life-buoys Ø	OPTIONAL floating rescue light holder*
22.427.00	600 to 660 mm	**30.584.01**

* *Necessary only when using floating rescue light 30.584.00 ; not necessary with floating rescue light 30.583.00.*



Stainless steel bracket for ring lifebuoys

For ring or horseshoe buoys. **Universal** model. It can be mounted on the deck, on the bulkhead or on 22/25-mm Ø stainless steel tubes , either straight or sloped by means of a special rotating nylon clamp. Fitted with **elastic lock**. **Standard** or **accessorized** version for floating rescue light 30.584.01.

Code	Type
22.425.00	Back for ring lifebuoys
22.426.01	Back for ring lifebuoys + floating rescue light holder (30.584.00; 30.582.00)

Levilene floating rope

OSCULATI

Spliced, suitable for ring buoys. Snap-hook included.

Code	Ø mm	Length m
22.407.05	6	30

Levilene floating rope for ring lifebuoys

OSCULATI

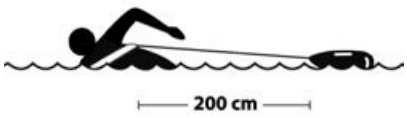
Code	Ø mm	Length m	Type-approved	Breaking load	Colour	Stainless snap hook INCLUDED
22.408.06	8	30	yes	400	orange	-
22.408.07	8	30	yes	400	white	**09.247.70**

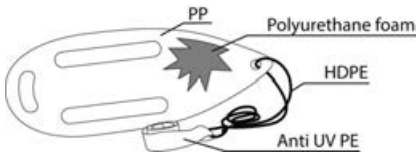
Lifeguard emergency personal floatation device

OSCULATI

Made of polyethylene and stuffed with polyurethane foam. Fitted with shoulder strap and towing line.

Code	⟷ mm	kg
22.407.20	670x230x135	1.4





Rope and rack

Code	Description
22.408.08	Levilene throw lifeline to retrieve men over board. Fitted with end eyelet for holding the line. The line has to be tied to the guardrail on one end. It comes in a Fluo colour bag, 28 metres long, 5-mm Ø.
22.408.09	Stainless steel rack for lines 22.408.08 fitted with 22/25-mm Ø pole clamp.

Bracket for ring lifebuoys

Designed for use on the beach, in swimming pools, etc. It adapts to any ring lifebuoy on the catalogue.

Code	Description
22.429.01	Universal life buoy support
22.429.02	160-mm high galvanized steel pole

Ring life buoy and line not included.

Line reel for bathing establishments

It can wind up 400 m of 8-mm Ø line.
Made of stainless steel + anodized aluminium.

Code	⟷ mm
22.408.00	600x440x830h

► Other personal floatation devices, MOB and accessories

MARSUPIO navigation kit

OSCULATI

Kit for navigation within 3 to 12 miles for 4/6 persons. It comes in a bag that can also be used as a soft pillow.

In case the vessel is not CE-approved, it requires an additional bailer or exhaustion pump

22.409.33 *Empty bag for 22.411.32; 22.411.40 Marsupio 4 (for 100 N belts)*
22.409.35 *Empty bag for 22.411.34; 22.411.41 Marsupio 6 (for 100 N belts)*
22.409.37 *Empty bag for 22.411.43 Marsupio 4/12 miles (for 150 N belts)*

Code	Version	Type	Type-approved within a range of	The kit contains									
				No of CE lifejackets	Extinguisher	Italian flag	Anchor line	Grapnel anchor	Distress signals	Line for ring lifebuoys	Boat hook	Horn	Floating rescue light
22.411.32	With flares	Marsupio 4/3	3 miles	4 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.25	1 package 30.230.01	22.408.06	34.171.40NE	21.462.30	-
22.411.40	With flares	Marsupio 4/6	6 miles	4 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.25	1 package 30.230.02	22.408.06	34.171.40NE	21.462.30	30.583.00; 30.584.00
22.411.34	With flares	Marsupio 6/3	3 miles	6 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.04	1 package 30.230.01	22.408.06	34.171.40NE	21.462.30	-
22.411.41	With flares	Marsupio 6/6	6 miles	6 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.04	1 package 30.230.02	22.408.06	34.171.40NE	21.462.30	30.583.00; 30.584.00
22.411.43	With flares	Marsupio 4/12	12 miles	4 x 22.459.02 ISO 12402-3	31.450.00	35.459.02	01.106.00	01.139.04	1 package 30.230.02	22.408.06	34.171.40NE	21.462.30	30.583.00; 30.584.00
22.412.32	Without flares	Marsupio 4/3	3 miles	4 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.25	-	22.408.06	34.171.40NE	21.462.30	-
22.412.40	Without flares	Marsupio 4/6	6 miles	4 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.25	-	22.408.06	34.171.40NE	21.462.30	30.583.00; 30.584.00
22.412.34	Without flares	Marsupio 6/3	3 miles	6 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.04	-	22.408.06	34.171.40NE	21.462.30	-
22.412.41	Without flares	Marsupio 6/6	6 miles	6 x 22.458.02 ISO 12402-4	31.450.00	35.459.01	01.106.00	01.139.04	-	22.408.06	34.171.40NE	21.462.30	30.583.00; 30.584.00
22.412.43	Without flares	Marsupio 4/12	12 miles	4 x 22.459.02 ISO 12402-3	31.450.00	35.459.02	01.106.00	01.139.04	-	22.408.06	34.171.40NE	21.462.30	30.583.00; 30.584.00

OSCULATI

MOB

Code	Description	⟷ mm
22.423.00	It comes in a case. To be fixed to the pulpit, it includes a buoyancy aid for emergency cases. Very compact and more convenient than a horseshoe lifebuoy.	460x400x110

OPTIONAL **22.408.06** *Floating levilene ropes*

DAN BUOY self-inflatable MOB system

Rescue system packed into a rugged ABS box. In case of man over board, open the box hung to the pulpit for instant deployment and throw it into the water. The man over board will find an inflated rescue device as well as a highly visible pole and light.
It includes: ring lifebuoy and built-in 260-cm pole, floating anchor, emergency light, reflective tape, weight and streaming ribbon.

Code	Floatablility N	⟷ mm	For hose Ø mm	kg
22.422.00	275	290x230x125	25	4.8

Automatic electronic signalling device for lifejackets

CE MED approved. Automatic lighting when it comes into contact with water.
Modes: fast flash, fixed light, SOS, OFF.

Code	Activation	⟷ mm
22.409.23	Automatic in contact with water	62x28x31.5

Electronic signalling device for lifejackets, MED approved

CE

Code	Type	Activation	⟷ mm
22.409.26	ASTERIA LED	manual	93x48

MED-approved reflective tape

Designed for liferafts of fishing or commercial vessels. Available in 50-meter rolls.

Code	Type	For	Height mm	
22.300.02	to be sewn	lifejackets	50	50
22.300.03	self-adhesive	liferafts, ring lifebuoys, etc.	50	50

Floating helmet made of soft foam

22.406.01 Available in bright colours. Protection system suitable for all water sports such as sailing, jet skiing, canoe, water skiing, etc. Adult sizes.

New Pet Vest lifejacket for cats and dogs

Made of sturdy nylon/fabric, with soft foam padding for the animal's comfort. Fitted with rescue handle on the back.

Code	Size
22.404.50	up to 4 kg
22.404.51	3-6 kg
22.404.52	5-10 kg
22.404.53	9-18 kg
22.404.54	18-36 kg
22.404.55	over 35 kg

Emergency plugs

Cone-shaped wooden emergency plugs

Code	Package	Ø mm
22.803.80	Series of 10 plugs	8 to 38
22.803.81	Series of 9 plugs	20 to 49

► Liferafts

Coastlight liferaft

Coastlife self-inflatable liferaft for navigation up to 12 miles offshore. It conforms to Ministerial Decree 29/07/2008 + Management Decree 02/03/2009.
1st overhaul after 3 years from the 1st packing, then every 2 years.

Code	Seats	Bag	⟷ cm	kg
22.704.04	4	Soft bag	66x28x27	25
22.704.06	6	Soft bag	66x26x28	25
22.704.08	8	Soft bag	64x30x33	30
22.704.10	10	Soft bag	65x29x35	39
22.704.12	12	Soft bag	68x29x35	44

Indicative sizes for liferafts in soft case

Oceanlife liferaft - approved for Italy

For navigation over 12 miles. Made in compliance with **ISO 9650** standards, it conforms to **Ministerial Decree 12/8/2002 and 832/2004 dated 10/3/2003**. **2-year overhaul**. Version in stiff case or soft bag.

Code	Seats	Container	⟷ cm	kg
22.725.04	4	Stiff case	73x47x30	47
22.725.06	6	Stiff case	73x47x30	50
22.725.08	8	Stiff case	74x46x34	59
22.725.10	10	Stiff case	85x60x31	84
22.725.12	12	Stiff case	85x60x32	95
22.720.04	4	Soft bag	70x30x43	43
22.720.06	6	Soft bag	70x30x43	43
22.720.08	8	Soft bag	73x37x44	55
22.720.10	10	Soft bag	76x38x56	79

Indicative sizes for liferafts in soft bag

◄22.720.xx

◄22.725.xx

Oceanlife liferaft + GB - Italy approval with GRAB BAG

For navigation over 12 miles. It conforms to ISO 9650 standards and to Ministerial Decree 12/8/2002 and 832/2004 dated 10/3/2003. 2-year overhaul. Version with separate equipment bag.

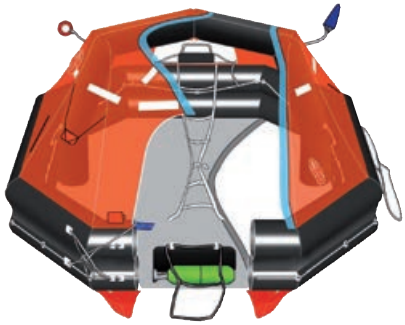
Code	Seats	Bag	cm	kg	Grab Bag cm	Grab Bag kg
22.740.04	4	Soft fabric bag	64x27x40	33	45x32	9
22.740.06	6	Soft fabric bag	64x27x40	34	45x32	13
22.740.08	8	Soft fabric bag	65x32x39	40	50x32	16

Indicative dimensions for liferafts in soft bag

Deep-Sea Compact professional self-inflatable liferaft - Solas MED

In compliance with the Solas '74 standard. Very compact and refined design. It can be installed on any vessel provided it is stowed at a height not exceeding 18 metres.

	A PACK				B PACK			
POSTI	**6**	**8**	**10**	**12**	**6**	**8**	**10**	**12**
Floating ring	1	1	1	1	1	1	1	1
Knife	1	1	1	1	1	1	1	1
Clasp knife	1	1	1	1	1	1	1	1
Floating bailer	1	1	1	1	1	1	1	1
Sponges	2	2	2	2	2	2	2	2
Anchor	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
Paddles	2	2	2	2	2	2	2	2
Tin opener	3	3	3	3	- -	- -	- -	- -
First aid kit case	1	1	1	1	1	1	1	1
Whistle	1	1	1	1	1	1	1	1
Parachute flare	4	4	4	4	2	2	2	2
Hand-held flare	6	6	6	6	3	3	3	3
Floating smoke signal	2	2	2	2	1	1	1	1
Torch	1	1	1	1	1	1	1	1
Radar reflector	1	1	1	1	1	1	1	1
Mirror signal heliograph	1	1	1	1	1	1	1	1
Signal table	1	1	1	1	1	1	1	1
Fishing kit	1	1	1	1	- -	- -	- -	- -
Food portion (package)	6	8	10	12	- -	- -	- -	- -
Water (litres)	9	12	15	18	- -	- -	- -	- -
Measuring glass	1	1	1	1	- -	- -	- -	- -
Seasickness pills	36	48	60	72	36	48	60	72
Seasickness bag	6	8	10	12	6	8	10	12
Survival instructions	1	1	1	1	1	1	1	1
Urgent measures	1	1	1	1	1	1	1	1
Thermal blanket	2	2	2	2	2	2	2	2
Repair kit	1	1	1	1	1	1	1	1
Inflator	1	1	1	1	1	1	1	1



Code	Seats	Bag	cm	kg
22.751.06	6	"A" pack - Roll	118x56x53	73
22.751.16	6	"A" pack - Flat	74x37x49	63.5
22.751.26	6	"B" pack - Roll	118x56x53	58
22.751.36	6	"B" pack - Flat	74x37x49	52
22.751.08	8	"A" pack - Roll	118x56x53	81
22.751.18	8	"A" pack - Flat	86x61x35	77
22.751.28	8	"B" pack - Roll	118x56x53	70
22.751.38	8	"B" pack - Flat	86x61x35	58
22.751.10	10	"A" pack - Roll	118x56x53	91
22.751.20	10	"A" pack - Flat	86x61x35	90
22.751.30	10	"B" pack - Roll	118x56x53	67
22.751.40	10	"B" pack - Flat	86x61x35	64
22.751.12	12	"A" pack - Roll	118x64x59	107
22.751.22	12	"A" pack - Flat	105x57x35	107
22.751.32	12	"B" pack - Roll	118x64x59	77
22.751.42	12	"B" pack - Flat	105x57x35	78.5

FRANCIA liferaft complying with ISO 9650 standards

These liferafts are approved by the Marine Marchande Française and comply with the regulation "Division 333-2/310-1. Overhaul every three years.
"Europe offshore" 1+24 hour version with full survival equipment.

Code	Seats	Container	⟷ cm	kg
22.712.06	6	stiff case	73x47x34H	61
22.712.08	8	stiff case	73x47x36H	71
22.712.10	10	stiff case	85x60x31H	84
22.712.12	12	stiff case	85x60x32H	95
22.713.06	6	soft bag	73x32x43H	58
22.713.08	8	soft bag	78x38x49H	67
22.713.10	10	soft bag	76x38x56H	79

Indicative sizes for liferafts in soft bag

"Med-Sea" professional self-inflatable liferaft

Type-approved by the Italian Ministry of Transport and Infrastructures according to the Ministerial Memorandum No. 78 dated 29/12/2008.
Approved for fishing vessels not exceeding 24 metres sailing in the Italian waters and authorized for close coastal fishing (max 40 miles from the coastline).

Code	Seats	Container	⟷ cm	kg
22.750.06	6	rectangular ABS	74x47x31	49
22.750.08	8	rectangular ABS	74x47x31	55
22.750.10	10	cylindrical VTR	118x56	73
22.750.12	12	cylindrical VTR	118x56	76

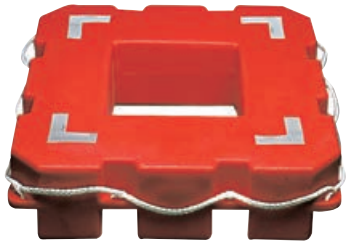
RINA-approved liferaft

For the Merchant Navy and commercial vessels for passenger transport.
Made of plastic filled with polyurethane foam.
Fine quality finish, orange colour. Supplied without reflective tape.

Code	Seats	Type-approval	⟷ cm	OPTIONAL reflective tape
22.700.03	8	M.M.M. 1/1991	90x90	**22.700.05**
22.700.04	12	M.M.M. 2/1991	105x105	**22.700.05**

22.700.05 *Package contains 2 m of **RINA** type-tested reflective tape 22.300.03. From 1993 on, rescue boats 22.700.03 and 22.700.04 must **compulsorily** be equipped with this belt.*

OSCULATI



Type-approved reflective tape. 2-m roll

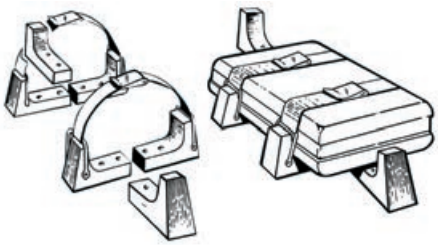
22.700.05 The package includes 2 metres of reflective tape 22.300.03(approved by **RINA)** . Since 1993 liferafts 22.700.03 and 22.700.04 **are required to** be fitted with this tape.

Liferaft hydrostatic hook

22.712.00 In compliance with Solas regulations. It activates at a depth of 1.5 to 4 metres by releasing the liferaft from its housing and inflating it.

Mounting kit for liferafts in stiff case

22.711.02 Deck/bulkhead mounting. The kit includes brackets, heavy-duty polyester straps, **stainless steel** hooks and buckles for quick release. Universal model for our liferafts.

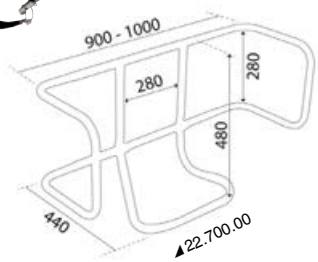


OSCULATI

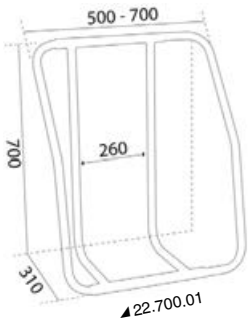
Universal liferaft holder for fast launching

AISI 316

Universal model for all 4- to 12-seat pleasure rafts. Mounting by means of **precision-cast stainless steel clamps** (4 pcs). Raft fastening by means of a sturdy nylon-coated stainless steel strap + cam hook and padlock ring. Fast launching by opening the cam hook. Mirror-polished AISI 316 stainless steel frame.



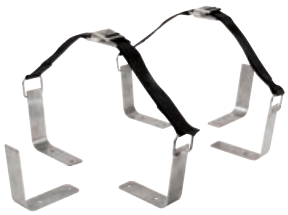
Code	Mounting
22.700.00	**Horizontal** on the bulkhead, flat or on the pulpit
22.700.01	**Vertical** on the bulkhead or on the pulpit



Douglas Marine

New Liferaft holder kit

22.711.03 Liferaft holder kit including L brackets for on-deck or bulkhead installation. AISI316 stainless steel parts. Fitted with self-blocking quick release buckles and high-resistance seam polyester straps.



► Dinghies

OSCULATI

Polyester dinghy lift system

High-quality, UV-resistant system for lifting any kind of dinghy. High-resistance anodized aluminium lift plate and buckles. AISI316 stainless steel quick release shackles. 400-kg max load. It adjusts to any dinghy. Patented and CE-approved.

Code	Lift version	Usable eyelet-to-eyelet length
22.518.02	two arms, with shackles	min 30 cm - max 138 cm
22.518.04	three arms (2 stern, 1 bow), with 3 shackles	bow strap: min 30 cm - max 360 cm; stern straps: min 30 cm - max 260 cm
22.518.06	three arms, with 1 shackle (bow) and 2 straps for back tube	bow strap: min 30 cm - max 360 cm; stern straps: min 30 cm - max 260 cm (considering a tube of about 50-cm diametre)

Dinghy universal holder

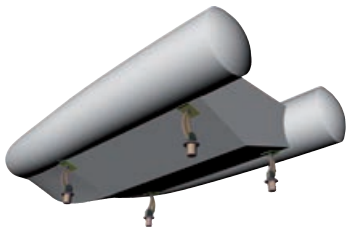
KIWIMARINE

MADE IN ITALY

AISI 316

Made of AISI316 stainless steel with anti-slip rubber coated support.
Its special shape can house any kind of dinghy bottom, jet ski or keel. A single move is enough to adjust it without moving the bases installed. The bases are removable, the arm is available in the single and double version, and the holder can be flat or V-shaped to adapt to no matter what requirement.

Code	Base	Side	Support	Capacity kg
22.507.02	removable	single	V shaped	30
22.507.03	removable	double	flat	70
22.507.04	removable	double offset	flat	70



Accessories for OSCULATI dinghies

Code	Description	For dinghies	⟷ cm
22.600.02	Push-push valve	**22.6xx.xx**	-
22.680.21 New	Seat	**22.620.21**	65x20
22.680.22 New	Seat	**22.620.xx; 22.630.xx; 22.640.xx; 22.660.xx; 22.670.xx**	85x20
22.680.24 New	Pair of oars	**22.620.18/21/22/24**	137
22.680.25 New	Pair of oars	**22.620.xx; 22.630.xx; 22.640.xx; 22.660.xx; 22.670.xx**	167.6

Seat bag

Comfortable and handy, it increases the seat comfort thanks to its soft padding.
The shoulder bag can be removed by opening the two zips.
The padding remains firmly in place on the seat by means of three practical belts.

Code	Bag dimensions cm	Padding dimensions cm
22.600.01	48x27x20	75x20

Easy Life 1.85-m dinghy

OSCULATI

Folding dinghy with flat cross-slat bottom. Compact and lightweight, ideal for small boats with little space. It comes fitted with oars, inflater, repair kit and carrying bag.

Code	Length m	Width m	For persons	Power max HP	Chambers Ø cm	Air chambers	Max load kg.	⟷ deflated cm	kg *
22.610.18	180	123	1+1	2.5	32	2	200	86x43x32	12

22.610.90 *Engine support. Easily removed in case the engine is not used. OPTIONAL*

* *Weight net of the demountable accessories.*

Rubber dinghy with cross slat bottom

Folding version with cross slats on the flat bottom. Once folded, it is the most compact available model for those having limited stowage space.
It comes with oars, inflater, repair kit and carrying bag.

Code	Type	Length m	Width m	No. of people	Max power HP	Chambers Ø cm	Air chambers	Max load kg.	⟷ deflated cm	kg *
22.620.18	185	1.85	1.31	1+1	2.5	36	2	200	96x56x32	12
22.620.21	210	2.10	1.17	2	3.5	34	2	250	96x56x32	20
22.620.24	240	2.40	1.52	3	6	42	3	450	111x64x32	25

* *Weight net of the removable accessories.*

New Dinghy with high-stiffness inflatable deck floor

This technology combines easy stowage to excellent seaworthiness. Fold after use like a rigid slat dinghy.
Ideal in case of limited stowage space. It comes with oars, inflater, repair kit and carrying bag.

Code	Type	Length m	Width m	No of people	Max power HP	Tunnel Ø cm	Air chambers	Permitted load kg	⟷ deflated cm	kg
22.630.25	240	2.4	1.37	2	4	36	3+1	350	101x60x31	23
22.630.28	270	2.7	1.5	3+1	10	42	3+1	484	111x61x35	33
22.630.32	310	3.1	1.51	4+1	15	42	3+1	566	111x61x38	35

* *Weight net of the removable accessories*

V hull fiberglass dinghy

Excellent seaworthiness. This comfortable dinghy is ideal for leisure and fun in full safety.
Good performance even at low gear. Made of Meheler® fabric.
It comes with oars, inflater and repair kit.

Code	Type	Length m	Width m	No. of people	Max power HP	Chambers Ø cm	Air chambers	Max load kg	⟷ deflated cm	kg **
22.640.22	222	2.22	1.47	2	4	36	3	200	200x110x50	39
22.640.25	250	2.5	1.6	2	5	43	3	450	230x110x50	45
22.640.28	280	2.8	1.6	3	10	43	3	550	280x110x50	55
22.640.31	310	3.1	1.6	4+1	15	43	3	600	300x110x50	60
22.650.33*	330	3.3	2.3	5	20	42	3	600	320x110x50	65

* *Double bottom version, flat floor.*

** *Weight net of the removable accessories.*

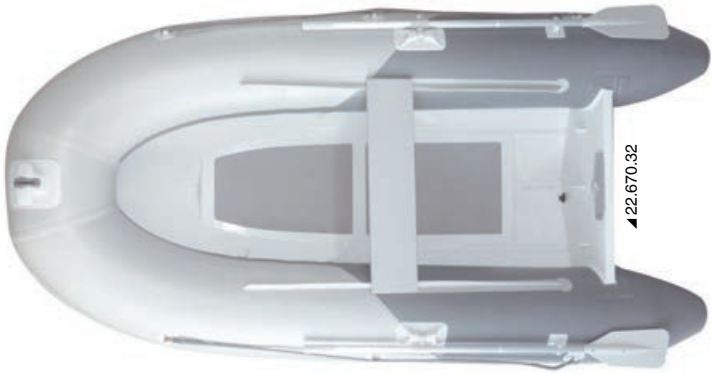
V hull dinghy made of aluminium

ALUMINUM HULL

Dinghy made of Mehler®. Rugged yet lightweight construction. Good performance at low speed. Fitted with oars, inflater and repair kit.
Version A: regular bottom with inside or outside V-shaped hull.
Version B: double bottom. Flat walking surface and small storage locker on the bottom.

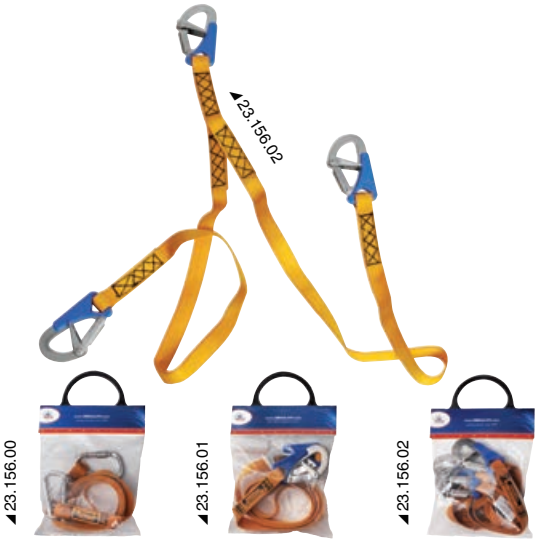
Code	Version	Length m	Width m	No. of people	Max power HP	Chamber Ø cm	Air chambers	Max load capacity kg	⟷ deflated cm	kg *
22.660.29	A	2.90	1.49	3	7.5	42	3	450	280x110x50	44
22.670.32	B	3.20	1.56	4+1	15	42	3	500	300x110x50	64

* *Weight net of the removable accessories*



► Safety harnesses and tethers in compliance with the EU 2016/425 PPE Regulations

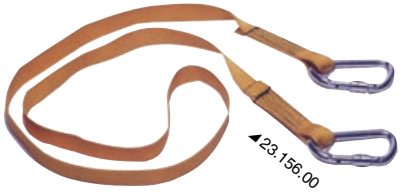
OSCULATI



EURO Lightline safety line

DPI Reg. (UE) 2016/425 CE

Code	No. of shackles	SS shackles type	Length m	CE approval
23.156.00	2	With safety lock	2	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009
23.156.01	2	Fast and anti-tangle safety opening	2	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009
23.156.02	2 + 1 central	Fast and anti-tangle safety opening	2	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009



Elastic safety line Euro Spring Line II

DPI Reg. (UE) 2016/425 CE

Fitted with carbine hooks.

Code	No of hooks	Hook type	Length		CE approval
			min	max	
23.151.67	2	Anti-tangle safety opening	1 m	2 m	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009

Safety lines Euro Spring Line III

DPI Reg. (UE) 2016/425 CE

Fitted with carbine hooks.

Code	No. of hooks	Hook type	Length	CE approval
23.151.66	3	Anti-tangle safety opening	1 to 2 m in the elastic part + 1 m in the fixed part	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009

Elastic safety lines Euro Spring Line

DPI Reg. (UE) 2016/425 CE

Fitted with stainless steel safety hooks.

Code	No. of hooks	SS hooks	Length		CE approval
			min	max	
23.151.68	2	Big opening	1 m	2 m	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009

EURO Harness safety harness

DPI Reg. (UE) 2016/425 CE

Made with soft polyester straps with quick coupling **stainless steel** buckle.

Code	Size		CE approval
23.155.01	Adults	over 50 kg	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009
23.155.02	Youths	20/50 kg	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009
23.155.03	Kids	up to 20 kg	Reg. (EU) 2016/425 - UNI EN ISO 12401:2009

Mast climbing harness

Made of strong nylon/cordura tissue with semi-rigid padded back.
Straps in high resistance soft polyester.

Code	Version
23.094.01	Basic model
23.094.02	Model equipped with straps for legs or shoulders. Traction is distributed on the whole body.

► Safety harnesses and tethers hight-tech

Ultra-light safety belt

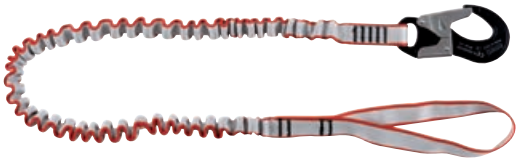
It can be put on quickly with no possibility of error since it can be worn upside down or left on right thus protecting the operators.

Code	size	Reference standards
23.154.01	universal	EN1095 / ISO12401

Safety lines double lark's head knot elastic safety line

Aluminium/stainless steel anti-grip quick-opening snap hook.
Unlike regular lark's head knots that become loose and bulky, the double lark's head knot remains compact and cannot slide on itself.

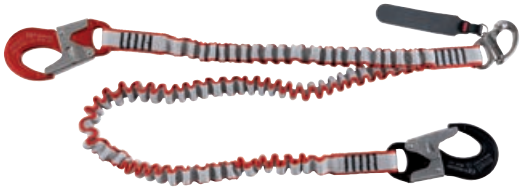
Code	Length m	Reference standards
23.154.05	2	EN1095 / ISO 12401



Y-shape safety line

With quick release stainless steel snap hook and anti-grip quick-opening aluminium/stainless steel terminal snap hooks. This tether has red snap hooks for the 1-m arm and black snap hooks for the 2-m arm so you'll immediately know the arm length.

Code	Length m	Reference standards
23.154.09	2+1	EN1095 / ISO 12401



Jackstay (Lifeline)

SHOCK ABSORBER

Adjustable lifeline with energy absorber via the buckle sliding and the controlled stretching of the belt up to 8%. This kinetics has two functions:
1. The lifeline anchorage points aren't deformed or broken so that the anchorage isn't released.
2. Snatch to the body is absorbed is order to allow the lifeline to work properly. The space between anchorage and buckle should be at least 1 m.

Code	Length m	Reference standards
23.154.11	8 to 15	EN795/C
23.154.12	15 to 29	EN795/C

► Bosun's chairs

OSCULATI

Bosun's chairs

Suitable for mast climbing.
Made of very thick **nylon cordura**, filled with foam, it provides safety yet gives freedom of movement.
Fitted with side object-holder and tool rack.
One size fits all.

Code	Size
23.090.00	One size fits all

OSCULATI

Bansigo Premium bosun's chair with padded rigid seat

Made of very sturdy nylon fabric with holding straps along its whole perimeter.
Large 50-mm thick padded seat (45 x 30 cm) for utmost comfort.
Fitted with 2 side pockets (26 x 23 cm) and breathable bag for storage.

Code	Size
23.093.00	One size fits all

Douglas Marine

DOUGLAS MARINE Bosun's chair with slip-off board

Made of **padded nylon** fabric with crush-proof **stainless steel** frame.
Slip-off polycarbonate seating board, very light and resistant. Adjustable back-inclination with hook&loop fastener system and strap. Side hook&loop fastener pockets and carrying bag.

Code	Size
23.092.00	One size fits all

► Watertight bags

Watertight bags

Made of polyester fabric coated with yellow PVC.
Items customizable upon request.

Code	⟷ mm	Volume l
23.765.01	250x500	20
23.765.02	300x600	40
23.765.03	400x700	60

Folder

WATERTIGHT object-holder made of clear PVC with special closure.
Items customizable upon request.

Code	⟷ mm
23.764.01	127x178
23.764.02	178x254
23.764.03	267x343

► AMPHIBIOUS watertight bags and backpacks

AMPHIBIOUS Mini Window watertight bag

Watertight bag ideal for small objects.
Made of PVC and fitted with double transparent windows.

Code	Capacity	Colour			⟷ cm	g
23.502.01	1 l	Blue	5	3	19x10x7	79
23.502.02	1 l	Clear light blue	5	3	19x10x7	79

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

LEGEND: Class 3 = Product able to float for more than 24 hours.

◀ 23.502.02

AMPHIBIOUS Tube Light Evo watertight bag

Made of lightweight TPU and **fitted with valve** to eliminate excess air. Ideal for stowing or carrying dry clothes while taking little room. Carry handle (20l and 60l versions) and strap (all models).

Code	Capacity	Colour			⟷ cm	g
23.516.02	5 l	Black	5	3	36x13	140
23.516.04	20 l	Black	5	3	50x25	300
23.516.06	60 l	Black	5	3	80x30	450

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

LEGEND: Class 3 = Product able to float for more than 24 hours.

AMPHIBIOUS Zenith / Compass waterproof shoulder bag

Equipped with protective cover, reflective band, carrying handle, external pocket with semi-dry zipper.

Removable anti-shock pocket ideal for PC up to 15".

Padded back and strap for utmost comfort. Waist strap for use during sports activities.

◀ 23.514.01

Code		Model	Capacity	Colour			⟷ cm	g
23.514.01		Zenith	10 l	Grey	3	0	33x33x12	845
23.519.01	New	Compass	17 l	Blue	4	2	32x39x14	1000

LEGEND: Class 3 = Water resistant in case of rain and water jets.

LEGEND: Class 0 = No watertight closure, it doesn't float.

◀ 23.519.01

AMPHIBIOUS X-Light Waist water-resistant and ultra-compact waist bag

Made of lightweight and resistant TPU UL 70 D fabric, very compact. YKK water-resistant zip fastener.
2 outside pockets on the waist support. Strap for fast adjustment of the lap belt.
Inside pocket for bag stowage.

Code	Capacity	Colour			cm	g
23.517.01	1.5 l	Grey	2	1	14x19x5.5	130

LEGEND: Class 2 = Water resistant in case of rain and water jets.

LEGEND: Class 1 = Product floating for some minutes by means of the water-resistant zip fastener.

AMPHIBIOUS Koala Micron waterproof waistbag

Compact size, made of 500 D PVC. Quick Proof top or side zip fastener, reflecting stripes, padded lumbar belt with two pockets.

Code	Capacity	Color			cm	g
23.515.01	3 l	Black	5	3	14x23x10	405

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

LEGEND: Class 3 = Product able to float for more than 24 hours.

AMPHIBIOUS Kikker watertight backpack/bag

Rectangualr section, Quick Proof closure (top or side), adjustable and removable shoulder straps. Two cordura handles.

Code	Capacity	Colour			cm	g
23.510.03	20 l	Clear light blue	5	3	56x32x14	770

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

LEGEND: Class 3 = Product able to float for more than 24 hours.

AMPHIBIOUS X-Light backpack

Ultra-compact and lightweight backpack made of TPU UL polyurethane. **Highly watertight** Quick Proof closure system, ultra slim shoulder straps and water-resistant external pocket.
It comes in a convenient bag for compact stowage.

Code	Capacity	Colour			cm	g
23.510.01	10 l	Grey/Black	4	2	39x24	240

LEGEND: Class 4 = High waterproofing to allow floating. This is AMPHIBIOUS first class to be really waterproof.

LEGEND: Class 2 = Product able to float for several hours.

◀ 23.518.01

◀ 23.511.01

AMPHIBIOUS Cofs / Atom II compact watertight backpack

Quick proof fastener, back padded with breathable mesh fabric, removable lumbar rest, reflecting tapes, pockets with water-resistant zip fasteners, mesh pockets.

Code	Model	Capacity	Colour			cm	g
23.511.01	Cofs	20 l	Blue	4	2	49x26x15	1170
23.518.01 New	Atom II	15 l	Red	4	2	40x26x15	1000

LEGEND: Class 4 = High waterproofing to allow floating. This is AMPHIBIOUS first class to be really waterproof.

LEGEND: Class 2 = Product able to float for several hours.

AMPHIBIOUS Quota watertight backpack

Quick proof fastening (top or side), ultra fix system to hook snap-hooks or other devices, mesh pocket, removable shoulder strap. Fitted with two carry handles.

Code	Capacity	Colour			cm	g
23.512.01	30 l	Yellow	5	3	66x24	880

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

LEGEND: Class 3 = Product able to float for more than 24 hours.

AMPHIBIOUS Voyager II / Amarouk round section watertight bag

Round section watertight bag with ultra fix system to hook snap-hooks or other devices, refracting bands, net pocket, **watertight external pocket.**

Code	Model	Capacity	Colour			cm	g
23.521.01	Voyager II	45 l	Blue	5	3	57x30	1010
23.521.12	Voyager II	60 l	Yellow	5	3	57x37	1350
23.522.01 New	Amarouk	35 l	Black	5	3	21x58x35	830

23.521.90 *OPTIONAL black padded shoulder straps*

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

◢ 23.522.01

◢ 23.521.01

◢ 23.521.90 OPTIONAL

AMPHIBIOUS Cargo watertight bag that turns into a backpack

Sturdy watertight bag with flat bottom. It turns into a large backpack by means of padded shoulder straps (optional). Quick Proof fastening, ultra fix system to hook snap-hooks or other devices.

Code	Capacity	Colour			cm	g
23.523.01	100 l	Black	5	3	37x77x37	1650
23.523.03	100 l	Grey	5	3	37x77x37	1650
23.523.02	160 l	Black	5	3	37x100x37	2100

23.523.90 *OPTIONAL black padded shoulder straps*

LEGEND: Class 5 = High waterproofing to allow floating. Max. waterproofing degree. Resistant to high water pressures. Suitable for demanding and professional uses, and for long exposures to water.

◢ 23.523.01/02

◢ 23.523.03

◢ 23.523.90
OPTIONAL

AMPHIBIOUS watertight cases

Watertight cases for mobile phones, i-Pod, i-Phone, GPS, VHF, cameras, etc. Watertight up to 6 m.
Compatible with touch screen technology.

Code	Description	⟷ cm	Colour		
23.500.01	Phone holder	13x8.5	White	6	4
23.500.02	Phone holder	15x8	White	6	4
23.500.03	VHF holder	28x11.5	White	6	4
23.500.04	Folding Phone, GPS, PDA holder	21.5x10.5	- Clear	6	4
23.500.21	Universal holder, watertight up to 50 m	9x21	- Clear	7	4
23.500.22	Universal holder, watertight up to 50 m	19x21	- Clear	7	4
23.500.23 New	Universal holder, watertight	12x11	- Clear	6	4

KEYS: Class 6 = Watertight and submersible up to 6 metres deep. This is the first class AMPHIBIOUS refers to as really suitable for diving.
Common applications include professional activities as well as all outdoor sports. The use of desiccant pouches is recommended to avoid condensate and damage to electronic devices.

KEYS: Class 7 = Watertight and submersible up to 50 metres deep. Maximum degree of watertightness suitable for professional and challenging activities such as Scuba diving, Caving, Canyoning, Rafting and Canoeing. The use of desiccant pouches is recommended to avoid condensate and damage to electronic devices.

KEYS: Class 4 = Product buoyant at all times.

◢ 23.500.23

◢ 23.500.22

◢ 23.500.21

◢ 23.500.04

◢ 23.500.03

◢ 23.500.01/02

► COLUMBUS pockets

Columbus

COLUMBUS line/object pouch

Mesh bottom for water draining. Mesh front pocket for small objects.
Mounting with 4 suction cups (**included**) or with 4 SS eyelets. Made of 1680 cordura.

Code	⟷ mm
23.202.02	310x370x90

COLUMBUS object pouch

Mounting to the pulpit or to the stays by means of its flap with a hook&loop fastener or of its straps and buckle (included). Mesh bottom for water draining. Made of 1680 cordura.

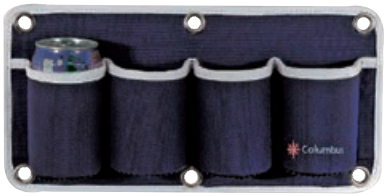
Code	⟷ mm
23.202.06	370x370x100

COLUMBUS cup holding pouch with handle

23.202.05 Mesh bottom for water draining.
Mounting with 4 suction cups (**included**) or with 4 SS eyelets. Made of 1680 cordura.

COLUMBUS 2-place glass/can holder pouch

◢ 23.202.04


◢ 23.202.14

Mesh bottom for water draining.
Fastening with 4 **suction cups (included)** or with 4 eyelets. Made of 1680 cordura.

Code	⟷ mm	Places	Colour
23.202.04	140x210	2	Blue/Grey
23.202.14	180x360	4	- Blue/Blue/Grey threads

COLUMBUS winch handle pouch

◢ 23.202.03

◢ 23.202.13

Mesh bottom for water draining.
Fastening with 4 suction cups included or with 4 eyelets. Made of 1680 cordura.

Code	⟷ mm	Colour
23.202.03	150x280	Blue/Grey
23.202.13	150x280	- Blue/Blue/Red thread

COLUMBUS line holding belt

Fastening to the pulpit or railing with hook&loop fasteners.
Made of 1680 cordura.

Code	⟷ mm
23.203.02	280x80

COLUMBUS protection for chainplates/turnbuckles

Made of 1680 cordura.

Code	⟷ mm	For cable Ø mm	Colour
23.204.01	370x75	6/10	- Grey with blue edges
23.204.02	475x95	8/12	- Grey with blue edges
23.204.03	610x135	12/19	- Grey with blue edges

COLUMBUS protection for stay terminals with turnbuckles

Made of 1680 cordura.

Code	⟷ mm	Colour
23.205.01	370	Blue
23.205.02	550	Blue

COLUMBUS stay cover

600 DEN UV-resistant fabric, soft foam lining.
Double hook&look fastener: one inside to wrap the stay, and one outside to fasten the cover.
Made of 1680 cordura.

Code	⟷ mm	Colour
23.307.01	Ø64x600	Blue
23.307.02	Ø64x1000	Blue

COLUMBUS chafe guard

For lines up to 20 mm. Fixing with elastic + hook&loop fastener.
Made of 1680 cordura.

Code	⟷ mm
23.203.03	400x150

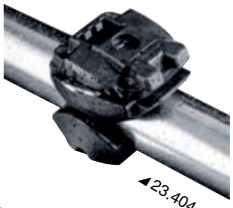
COLUMBUS rope bags

For stowage tops. Anti-mold fabric.
Resistant to sea water.
Complete with perimeter closing tops.

Code	⟷ mm
23.203.04	300x220x350
23.203.05	200x350

► SCANSTRUT accessories for tablets and mobile phones

SCANSTRUT



SCANSTRUT ROKK Mini universal clamp for electronic devices

Compact and multi-adjustable mounting system for smart phones, tablets, fish finders, digital video cameras, VHF and GPS. The body matches different top plates and clamps for multi-position mount. Designed for marine applications.

Code	Description	It maches
23.404.00	Adjustable body to be fastened on a top plate and clamp	Choice of top plates and clamps
23.404.03	Top plate for flat mounting	23.404.00 + choice of clamps
23.404.04	Adhesive top plate for flat mounting	23.404.00 + choice of clamps
23.404.05	Top plate for mounting on 19- to 34-mm Ø rails	23.404.00 + choice of clamps
23.404.06	Suction cup top plate	23.404.00 + choice of clamps
23.404.10	Adjustable arm clamp for smartphones, GPS systems 45 to 95-mm devices	23.404.00 + choice of top plates
23.404.11	Adjustable arm clamp for tablets and 125- to 220-mm devices	23.404.00 + choice of top plates

► “Ape’s fist” line-throwing gun

Line-throwing gun “AN APE’S FIST”

Made of blue braided nylon around a lead core.
Line diameter: 8 mm.

Code	Material	Colour	
23.130.00	Nylon	Blue	300

Leather line-throwing gun

Black leather sewn around a core of lead shots.
Nickel-plated brass eyelet.

Code	Material	Colour	
23.130.01	Leather	Black	400

► Wind scoops

Wind scoop for hatches

Made of **Dacron Spy** fabric; it inflates and the air flows with minimum amount of breeze; stiffened with a slat, stowed in a zip bag.

Code	For hatches size cm	Rolled up size cm	Height cm
23.131.01	40	45x6x3	110
23.131.02	50	55x6x3	125

Wind scoop, universal model

For perfect ventilation; **universal** model, suitable for sail and motor boats, adaptable; made of 100% **colored nylon**.
Can be easily disassembled, includes case.

Code	Version	Height cm
23.132.00	Universal	185

New Self-supporting Wind Scoop for hatches

OSCULATI

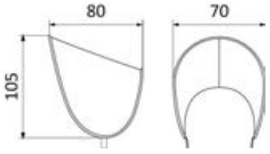
SELF - STANDING Made of nylon fabric stiffened with a self-supporting slat.

EASY INSTALLATION No need of fastening to the halyard, innovative fastening system adapting to any boat.

Its conic shape lets air through with a minimum amount of breeze for optimum ventilation of the interiors.

Easy and fast to stow in its compact case.

Code	Version	Ø when closed cm	Height cm
23.134.01	For hatches 40 to 60 cm	40 x 4	105



New Self-supporting Wind scoop for side porthole

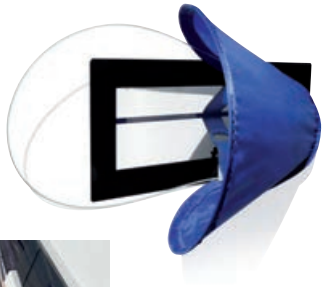
OSCULATI

SELF - STANDING Made of nylon fabric stiffened with a self-supporting slat.

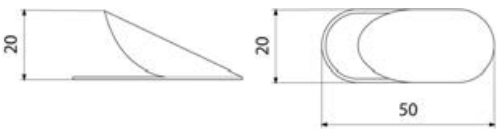
EASY INSTALLATION Ideal for easy and fast installation on side hatches.

Its conic shape lets air through with a minimum amount of breeze for optimum ventilation of the interiors.

Easy and fast to stow in a compact case.



Code	Version	Ø when closed cm	Height cm
23.135.01	For portlights 30 to 40 cm	24 x 1	20



► Carpets

Fop rope

Doormate made of hand-braided nylon rope

blue	⟷ cm
23.907.22	47x23
23.907.21	60x32
23.907.20	72x37

◢ 23.909.04

Format antiskid rectangular doormat, 40x68 cm

Made of closed cell **expanded polyurethane** + soft velure colored layer.
Weather-resistant.

Code	Pattern	⟷ cm
23.909.00	Compass rose	40x68
23.909.01	Gran Pavese	40x68
23.909.02	Lighthouse	40x68
23.909.03	Dolphins	40x68
23.909.04	Wind	40x68

◢ 23.909.00

◢ 23.909.01

◢ 23.909.03

◢ 23.909.02

Format antiskid semi-circular doormat, 40x68 cm

Made of closed cell **expanded polyurethane** + soft velure colored layer.
Weather-resistant.

Code	Pattern	⟷ cm
23.909.05	Anchor	40x68
23.909.06	Pirate	40x68
23.909.08	Marlin	40x68

◢ 23.909.08

◢ 23.909.06

◢ 23.909.05

Format antiskid rectangular doormat, 50x80 cm

Made of closed cell **expanded polyurethane** + soft velure colored layer.
Weather-resistant.

Code	Pattern	⟷ cm
23.910.00	Compass rose	50x80
23.910.07	Flags	50x80

◢ 23.910.07

◢ 23.910.00

► Helly Hansen

HH Oxford T-Shirt

Confortable T-shirt 100% cotton 200g/m².

Size	Code	Colour
M	**24.516.02**	Navy blue
L	**24.516.03**	Navy blue
XL	**24.516.04**	Navy blue
XXL	**24.516.05**	Navy blue
XXXL	**24.516.06**	Navy blue

HH Oxford Polo

Confortable Polo 100% cotton 210g/m².

Size	Code	Colour
M	**24.517.02**	Navy blue
L	**24.517.03**	Navy blue
XL	**24.517.04**	Navy blue
XXL	**24.517.05**	Navy blue
XXXL	**24.517.06**	Navy blue

HH Kensington Tech Polo

TACTEL Quick dry polo, no ironing.
Anti-mycotic and anti-bacterial fabric, 185 g.

Size	Code	Colour
M	**24.519.02**	Navy blue
L	**24.519.03**	Navy blue
XL	**24.519.04**	Navy blue
XXL	**24.519.05**	Navy blue
XXXL	**24.519.06**	Navy blue

HH Chelsea Evo Hooded softshell

Softshell fabric with membrane and fleece backing combined with back panel in 4-way stretch fabric gives you the ultimate Softshell Jacket. The 4-way stretch fabric is strategically placed across the upper back to maximize movability and comfort. The fabric ensures water and wind resistance while the lack of shoulder seams increases the water repellency. This jacket is probably the most versatile jacket you can own. 4-Way stretch at center back for max comfort. No shoulder seams. Articulated sleeves. Extended back for max comfort. YKK® center front zipper with back placket. YKK® chest pocket zipper. Hole for headphone cord inside chest pocket. YKK® hand pockets zipper. Cuffs with velcro adjustment. Draw cord adjustment at hood. Bottom hem adjustment, ID card loop.

Size	Code	Colour
S	**24.509.11**	Navy blue
M	**24.509.12**	Navy blue
L	**24.509.13**	Navy blue
XL	**24.509.14**	Navy blue
XXL	**24.509.15**	Navy blue

HH Chelsea Evo pile jacket

This jacket combines Polartec® Thermal 300 rough fleece with Polartec® Power stretch for ultimate warmth, durability and movement.
Polartec® Pile. Polartec® Power stretch. Double layer fabric in collar.
Edge band around neck and along the center front zipper.
Extended Lycra cuffs with hole for thumb.
100% Polyester - 366 g/m^2.

Size	Code	Colour
S	**24.510.01**	Navy blue
M	**24.510.02**	Navy blue
L	**24.510.03**	Navy blue
XL	**24.510.04**	Navy blue
XXL	**24.510.05**	Navy blue

HH Haag Jacket

Classic waterproof and breathable Helly Tech® shell jacket for all-year use.
It matches both fleece and Primaloft sweaters.
Waterproof/breathable: 100% Polyester - 145 g/m^2.
Fully-taped construction. Detachable hood. Brushed polyester inside collar.
Chin protector. No shoulder seams. Bi-direction zipper with hook&loop fastener.
Chest pocket with water-repellent zipper. Two front pockets with zipper.
Adjustable cuffs with hook&loop fastener.
Adjustable hem with drawcord at the bottom (optional buttons).
Embellishment zipper. Click-on inside loop for accessories.
Drop back for extra coverage. EN 343 3,3.

Size	Code	Colour
S	**24.507.01**	black
M	**24.507.02**	black
L	**24.507.03**	black
XL	**24.507.04**	black
XXL	**24.507.05**	black

HH Gale Rain

Gale Jacket sets the new standard in rain gear built for workers! Phthalate free fabrics ensures low environmental impact while at the same time keeping you dry no matter the weather.
100% PU on 100% Polyester knit - 240g/m².
Jacket: YKK® center front zipper. Double main fabric front flap. Napoleon pocket with YKK® zipper and hole for head phones. Hand pockets. Packable hood with draw cord adjustment at front. Neoprene cuffs, Inner pocket. Bottom hem adjustment with cord. Extended back for better comfort. ID card loop, AATCC 127, EN 343:2003 + A1:2007 3, 1.
BIB pant: inner chest pocket with YKK® zipper. Elastic suspenders. Button adjustment in waist. Bottom hem adjustment with buttons, AATCC 127, EN 343:2003 + A1:2007 3, 1.

Size	Jacket	BIB trousers	Colour
S	**24.502.01**	**24.503.01**	Navy blue
M	**24.502.02**	**24.503.02**	Navy blue
L	**24.502.03**	**24.503.03**	Navy blue
XL	**24.502.04**	**24.503.04**	Navy blue
XXL	**24.502.05**	**24.503.05**	Navy blue
XXXL	**24.502.06**	**24.503.06**	Navy blue

YKK®
EN 343 +A1:2007

24.502.01/02/03/04/05/06

24.502.0x

24.503.01/02/03/04/05/06

HH Storm Rain

Storm sets a new standard in rain gear for fishing! Phthalates-free fabrics ensures low environmental impact while keeping you dry no matter the weather. 100% PVC on 100% Polyester knit - 310g/m².

Jacket: YKK® center front zipper. Napoleon pocket with zipper and hole for head phones.
No shoulder seams. Hood with draw cord adjustment at front and hook&loop fastener adjustment at the back. Neoprene cuffs. Inner pocket. EN 343:2003 + A1:2007 3,1, AATCC 127.

BIB pant: elastic suspenders, button adjustment at the waist, inner pocket with YKK® zipper, EN 343:2003 + A1:2007 3,1.

Size	Jacket	BIB trousers	Colour
S	**24.500.11**	**24.501.11**	Orange/Black
M	**24.500.12**	**24.501.12**	Orange/Black
L	**24.500.13**	**24.501.13**	Orange/Black
XL	**24.500.14**	**24.501.14**	Orange/Black
XXL	**24.500.15**	**24.501.15**	Orange/Black

EN 343 +A1:2007
YKK®

24.500.11/12/13/14/15

24.501.xx

24.501.11/12/13/14/15

24.501.xx

HH Lifa Merino Beanie

Lifa® Stay Warm Technology. 57% Merino 43% Polypropylene 215g/m².

Code	Colour
24.518.00	Black

► Waterproofs and boots

Skipper Pro boots

Technical characteristics:
- Quality finish with reinforcement on neck and heel
- Soft rubber latex
- Blade alveolar anti-slip sole
- Anatomical insole

Code	Size	Colour	Height cm
24.995.37	37	Black	35
24.995.38	38	Black	35
24.995.39	39	Black	35
24.995.40	40	Black	35
24.995.41	41	Black	35

Code	Size	Colour	Height cm
24.995.42	42	Black	35
24.995.43	43	Black	35
24.995.44	44	Black	35
24.995.45	45	Black	35
24.995.46	46	Black	35

► Gloves

Sailing gloves

Made of **elastic neoprene and seawater resistant synthetic leather** "AMARA" and elastic fabric. Hook&loop fastener at the wrists; reinforced palm and fingers; available in 2 different finger length versions.

3 full fingers + thumb and index hub	Hub finger	Size
24.396.00	24.395.00	S
24.396.01	24.395.01	M
24.396.02	24.395.02	L
24.396.03	24.395.03	XL

Sailing gloves - short finger

With reinforced treated **leather** palm, color beige, **blue nylon** elastic back, heavy thickness. Hook&loop fastener at the wrists, especially suitable for **surfing** and **water skiing**.

Code	Size
24.101.70S	S
24.101.70M	M
24.101.70L	L
24.101.70XL	XL

Sailing gloves, total protection

Also suitable for the winter season; made of 3 mm **neoprene** elastic fabric, reinforced palm with synthetic "Amara" leather.

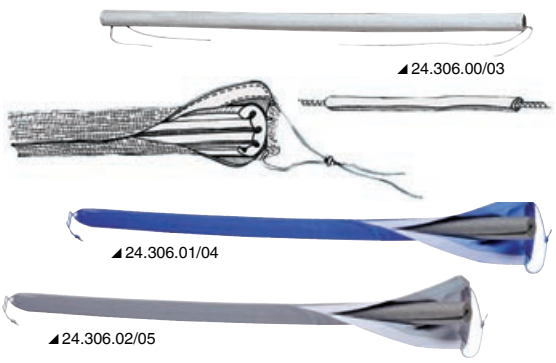
Code	Size
24.394.01	S
24.394.02	M
24.394.03	L
24.394.04	XL

► Guard rail wire covers

Stay cover

Made of **soft expanded foam** coated with "Vinalux".
To be fitted onto the staysail by screwing the turnbuckle; sold in pairs.

Code	Length cm	Ø mm	Color
24.305.00	100	62	white



Stay cover

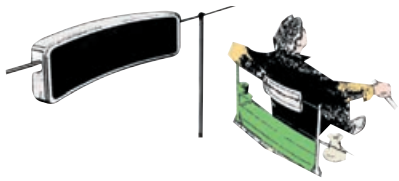
Made of closed cell **polyurethane foam** covered with "cordura" **polyester** fabric.
Very smart system that fits to the stays avoiding disassembling, perfect fit **without** clearance. Universal size for stays of any diameter. **It also covers the turnbuckle**.

Code	Length cm	Colour
24.306.00	100	White
24.306.03	150	White
24.306.02	100	Grey
24.306.01	100	Royal blue
24.306.04	150	Royal blue
24.306.05	150	Grey

Back-cushion

For fitting onto stays, made of **white polythene**; universal size, can be mounted or un-mounted in a matter of seconds.

Code	For cable size mm	⟷ mm
24.292.00	6/8/10	380x120



► Cushions

Cushions made of water-proof cotton

Filled with Kapock silicon.

Type of cushion	Blue	Grey	Bordeaux	Blu/white stripes	⟷ mm
Simple	**24.430.11**	**24.430.16**	**24.430.13**	**24.430.14**	430x350
With backrest	**24.430.21**	**24.430.26**	**24.430.23**	**24.430.24**	430x750
Roller	**24.430.31**	**24.430.36**	-	**24.430.34**	Ø 190x440

◢24.430.13

◢24.430.23

◢24.430.14/24/34

◢24.430.11/21/31

◢24.430.16/26/36

Comfort Seat, stay-up cushion and chair

Comfort Seat combines quality and comfort in a single innovative design. The cushion can be placed on any surface without sliding away. Made of coated polyurethane foam, the inside hinge system enables to adjust the back in 6 different positions for full back support without unbalancing.
Technical specification: it floats if it falls overboard; equipped with carrying handle; no rough or sharp parts; UV resistant.

Blue	White/Blue	Grey	Model	⟷ mm
24.800.01	**24.801.01**	-	Classic	100x49x8
-	-	**24.802.01**	Compact	92x48x8

◢24.802.01

COMFORTseat

◢24.800.01

◢24.801.01

► BEDFLEX pillows

Cushion for guardrails

Cushion for guardrails (both tube and stainless steel cable).
Made of soft foam coated with UV-resistant faux leather.

Code	Colour	⟷ mm
24.420.01	White	550x150

Universal backrest

Mounting with suction caps or clips (included).
Made of soft foam coated with UV-resistant faux leather.

Code	Colour	⟷ mm
24.420.03	White	550x200

Cushion with universal seat

Mounting with suction caps or clips (included).
Made of soft foam coated with UV-resistant faux leather.

Code	Colour	⟷ mm
24.420.05	White	550x380

◢24.420.01

◢24.420.03

◢24.420.05

► FINDER 2" (50 mm) and 2" 5/8 (67 mm) compasses

Finder 2" and 2" 5/8 compasses

OSCULATI

ABS body, equipped with **lighting, compensators** and red lubber's line. Also suitable for high speed. Card graduated in 5° intervals. Cardan with 30° max slope.

Code	Rose color	Rose apparent Ø mm	Frame colour	Version	Light	12V LED lighting	Compensators	Max inclination
25.170.01	Black	50 (2")	Black	With bracket	Yes	Yes	Yes	15°
25.170.02	Blue	50 (2")	White	With bracket	Yes	Yes	Yes	15°
25.171.01	Black	67 (2" 5/8)	Black	With bracket	Yes	Yes	Yes	30°
25.171.02	Blue	67 (2" 5/8)	White	With bracket	Yes	Yes	Yes	30°
25.172.01	Black	67 (2" 5/8)	Black	Top-mounted	Yes	Yes	No	30°
25.172.02	Blue	67 (2" 5/8)	White	Top-mounted	Yes	Yes	No	30°

◢25.170.01

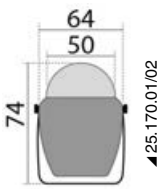
◢25.170.02

◢25.171.01

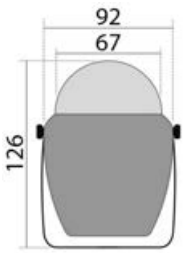
◢25.171.02

◢25.172.01

◢25.172.02



◢25.170.01/02



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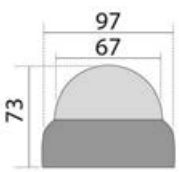


◢25.172.01/02

◢25.170.01/02

◢25.171.01/02

◢25.172.01/02

► RIVIERA 2'' (76 mm) compasses

Riviera GENOVA

RIVIERA Comet 2" compass

Anti-glare shield, needle pivot, frontal reading 5° rose.

Mounting		Color	Ø max mm	Height mm	Reading
with bracket on surface or wall	Surface				
25.006.03	**25.006.01**	grey	80	50	front
25.006.04	**25.006.02**	black	80	50	front

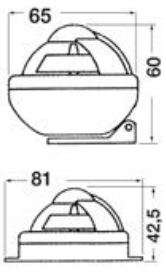
◢25.006.01

◢25.006.02

◢25.006.03

◢25.006.04

◢25.006.04

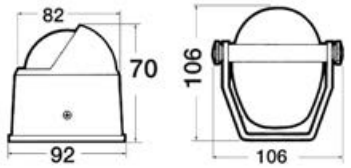


► RIVIERA 2" 1/2 (65 mm) compasses

RIVIERA Stella 2" 1/2 compass

Needle pivot, anti-glare shield, fitted with air trap device; 5° rose.

Code	Version	Rose color	Body color
25.025.00	with cover	Black	Black
25.025.10	with cover	Blue	Grey
25.025.20	with bracket	Black	Black
25.025.22	with bracket	Blue	Grey



◢25.025.20

◢25.025.22

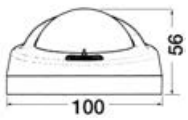
◢25.025.00

◢25.025.10

RIVIERA Aries 2" 1/2 compass

Non recess fit model with **bayonet fixing base**.

Code	Base Ø mm	Height mm	Rose colour	Body colour
25.025.29 New	100	60	Black	Black + black
25.025.30	100	60	Black	White + black
25.025.31	100	60	Black	White + blue
25.025.40	100	60	Black	White + white



◢25.025.30

◢25.025.31

◢25.025.40

◢25.025.29

► RIVIERA Artica 2" 3/4 (72 mm) compasses

Type-approved by Ministerial Order 388 dated0 29/9/99, recommended for boats up to 6.5 metres; semi-gimbals up to 35°, lighting, built-in compass corrector, black rose with 5° scale, fitted with antiglare protection cover. Also available for the southern hemisphere.

RIVIERA Artica 2" 3/4 compass

Internal semi-gimbals. Built-in compensation, anti-glare screen and night lighting. Card with 5 ° white graduation.

Model			Colour rose	Colour body	12V lighting
Flush mount (BA1)	with binnacle (BA3)	Bracket mount (BA2)			
25.005.11	**25.005.13**	**25.005.12**	Blue	Grey	Yes
25.005.01	**25.005.03**	**25.005.02**	Black	Black	Yes

◢25.005.02

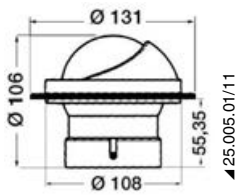
◢25.005.12

◢25.005.03

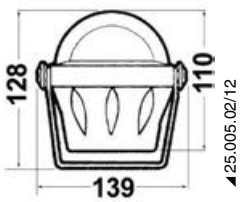
◢25.005.13

◢25.005.01

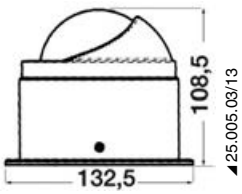
◢25.005.11



◢25.005.01/11



◢25.005.02/12



◢25.005.03/13

► 3" (80 mm) RIVIERA compasses

Type approved under Ministerial Order 388 of 29/9/99; recommended for boats up to 8 metres; gimbals, built-in compass corrector, lighting, rose with 5° scale. Also available for the southern hemisphere.

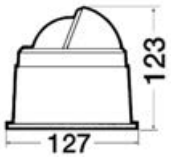
RIVIERA Zenit 3" compass fitted with binnacle

Front rose	12V LED lighting	Flat rose	12V lighting	Version	Rose colour	Body colour
25.015.04	Yes	**-**	-	High speed	Blue	White
25.015.02	Yes	**25.017.00**	Yes	High speed	Black	Black
-	-	**25.016.00**	Yes	Normal	Black	Black

◢25.016.00/017.00

◢25.015.02

◢25.015.04



RIVIERA Zenit 3" compass with bracket

Front rose	12V LED lighting	Flat rose	12V lighting	Version	Rose colour	Body colour
25.015.08	Yes	**25.008.20**	Yes	High speed	blue	white
-	-	**25.008.10**	Yes	High speed	blue	grey
25.015.06	Yes	**25.008.00**	Yes	High speed	black	black
25.015.05	Yes	**25.007.00**	Yes	Normal	black	black

◢25.008.10

◢25.015.08

◢25.008.20

◢25.015.05/06

◢25.007.00/008.00

RIVIERA Zenit 3" recess fit compass

Front rose	12V LED lighting	Flat rose	12V lighting	Type	Rose color	Body colour
25.015.20	Yes	**25.014.20**	Yes	High speed	Blue	White
-	-	**25.014.10**	Yes	High speed	Blue	Grey
25.015.10	Yes	**25.014.00**	Yes	High speed	Black	Black
-	-	**25.013.00**	Yes	Normal	Black	Black

◢25.014.20

◢25.014.10

◢25.015.20

◢25.013.00/014.00

◢25.015.10

RIVIERA Zenit 3" recess fit compass with telescopic anti-glare screen

Suitable for high-speed boats.

Flat compass card	Front compass card	12V lighting	Version	Rose colour	Body colour
25.014.25	**25.014.19**	Yes	Low speed and high speed (over 25 knots)	Black	Black
25.014.26	-	Yes	Low speed and high speed (over 25 knots)	Blue	Grey
25.014.27	**25.014.21**	Yes	Low speed and high speed (over 25 knots)	Blue	White

◢25.014.27

◢25.014.26

◢25.014.26

◢25.014.25

◢25.014.25/26/27

◢25.014.19/21

◢25.014.21

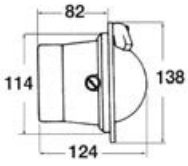
◢25.014.19

RIVIERA Polare 3" bulkhead mounting compass for sailing boats

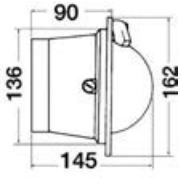
With internal cardan, inclinometer, 12/24V lighting.

Code	Inches	Apparent Ø mm	Scale	Inclinometer	12V LED lighting	OPTIONAL plastic protection cover	Rose colour	Case colour
25.019.00	3"	80	5°	Yes	Yes	**25.019.01**	Black	Black
25.020.00	4"	100	5°	Yes	Yes	**25.020.01**	Black	Black

◢25.019.00



◢25.020.00



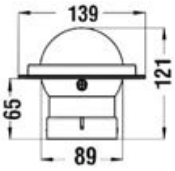
RIVIERA 3" regatta compass

4-colour flat rose, 5° scale. Internal cardan.

Code	Rose colour	Case colour
25.030.50	4 colours	Black
25.030.51	4 colours	White

◢25.030.50

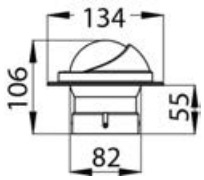
◢25.030.51



IDRA series 3" compact compass for high-speed boats

Internal semi-gimbals. Front 5° scale. Night LED lighting.

Built-in	With bracket	12V LED lighting	Rose colour	Case colour
25.014.90	**25.014.96**	Yes	Black	Black
25.014.91	**25.014.97**	Yes	Blue	White



◢25.014.90

◢25.014.91

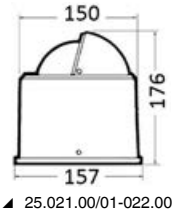
◢25.014.96

◢25.014.97

► RIVIERA 4" (100 mm) compasses

Type approved under Ministerial Order 388 of 29/9/99; recommended for boats up to 10.5 metres; internal gimbals, lighting, 5° graduation.
Also available for the southern hemisphere.

◢ 25.021.00 / 25.022.00



◢ 25.021.00/01-022.00

◢ 25.023.00

◢ 25.023.00

◢ 25.021.01

RIVIERA 4" compass with binnacle

Code	Version	12V Lighting
25.021.00	Standard	Yes
25.022.00	High speed, over 25 knots	Yes
25.021.01	For Merchant Navy and fishing boats (2° in 2°). **RINA test certificate for every single compass.**	Yes
25.023.00	For sail boat bollards with low sun hood	Yes

◢ 25.027.00/01-028.00

◢ 25.024.00

RIVIERA 4" recess fit compass

Code	Version	12V lighting	OPTIONAL cover
25.027.00	Normal	Yes	**25.020.01**
25.028.00	High speed, over 25 knots	Yes	**25.020.01**
25.027.01**	For Mercantile Marine and fishing boats *	Yes	**25.020.01**
25.024.00	For sail boat bollards or panel boards with sun hood. Lubber line for top to bottom reading	Yes	-

* *Supplied with **RINA type approval certificate for each compass**.*
** *Available only on request.*

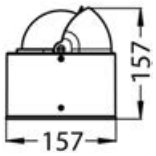
RIVIERA 4" compass with binnacle + telescopic envelope cover

Code	Version	Body colour	Rose colour	12V lighting
25.022.10	High speed (exceeding 25 knots)	Black	Black	Yes
25.022.13	High speed (exceeding 25 knots)	Blue	Blue	Yes

◢ 25.022.10

◢ 25.022.13

◢ 25.022.13



RIVIERA 4" recess fit compass + telescopic enveloping opening

Flat rose	Front rose	12V LED lighting	Version	Body colour	Rose colour
25.028.10	**25.028.17**	Yes	Low speed and high speed (exceeding 25 knots)	Black	Black
25.028.13	**25.028.19**	Yes	Low speed and high speed (exceeding 25 knots)	White	Black
25.028.15	**25.028.21**	Yes	Low speed and high speed (exceeding 25 knots)	White	Blue

◢ 25.028.10

◢ 25.028.10

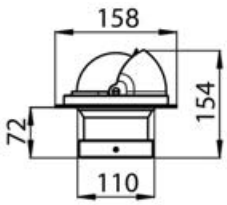
◢ 25.028.13

◢ 25.028.19

◢ 25.028.17

◢ 25.028.15

◢ 25.028.21

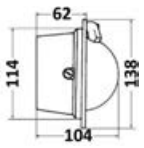


RIVIERA 3" and 4" Pegasus wall compass

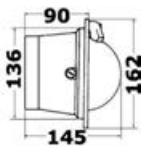
Internal cardan, inclinometer, 12/24V lighting, 5° scale. Rear shield and cover 25.020.19 included.

Code	Inches	Apparent Ø mm	Body	Rose	Inclinometer	12/24V light	12V LED lighting
25.019.15	3"	80	White	Blue	Yes	Yes	Yes
25.019.16	3"	80	White	Red	Yes	Yes	Yes
25.019.17	3"	80	Black	Red	Yes	Yes	Yes
25.020.15	4"	100	White	Blue	Yes	Yes	Yes
25.020.16	4"	100	White	Red	Yes	Yes	Yes
25.020.17	4"	100	Black	Red	Yes	Yes	Yes

25.020.19 *Spare cover*



◢25.019.15-16-17



◢25.020.15-16-17

◢25.020.15; 25.019.15

◢25.020.16; 25.019.16

◢25.020.17; 25.019.17

► 5" (130 mm) Riviera Compasses

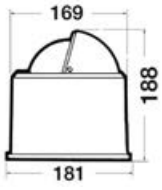
Type approved under Ministerial Order 388 of 29/9/99; recommended for boats up to 14 metres; internal gimbals, compass corrector and lighting. Also available for the southern hemisphere.

RIVIERA 5" compass with binnacle

Code	Version	24V lighting	Graduation	Initials
25.009.00	Removable rose	Yes	5°	BW2
25.009.01**	Removable rose, for Mercantile Marine and fishing boats*	Yes	2°	-
25.010.00	High speed, over 25 knots	Yes	5°	BW2/AV
25.030.00	For sail boat bollards with low sun hoods	Yes	5°	BW4

* *Supplied with testing certificate **RINA for each compass**.*

** *To be ordered.*



◢25.009.00

◢25.030.00

RIVIERA 5" recess fit compass

Code	Version	24V lighting	Graduation	Initials
25.011.00	Normal	Yes	5°	BW1
25.011.01	For Mercantile Marine and fishing boats*	Yes	2°	-
25.012.00	High speed, over 25 knots	Yes	5°	BW1/AV
25.029.00	For sail boat bollards or panels with low sun hood	Yes	5°	BW3

* *Supplied with testing certificate **RINA for each compass**.*

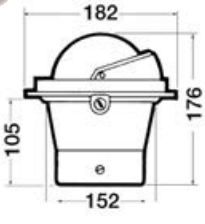
◢25.011.00

◢25.011.00-01

◢25.011.01

◢25.012.00

◢25.012.00



◢25.029.00

◢25.029.00

► 6" (150 mm) Riviera compasses

Type approved under Ministerial Order 388 of 29/9/99; recommended for boats over 14 metres; internal gimbals, lighting, compass corrector.
Also available for the southern hemisphere.

RIVIERA 6" recess fit compass

Code	Version	24V lighting	Rose	Graduation	Initials
25.001.00	High speed	Yes	Flat	5°	B6/W1
25.002.00	For sail boats	Yes	Flat	5°	B6/W3

◢ 25.001.00

◢ 25.002.00

RIVIERA 6" compass with binnacle

Code	Version	24V lighting	Rose	Graduation	Body	Initials
25.003.00	High speed	Yes	flat	5°	Black	B6/W2
25.004.00	For sail boats	Yes	flat	5°	Black	B6/W4
25.004.02	For sail boats	Yes	flat	5°	White	B6/W5

◢ 25.003.00 - 25.004.00

◢ 25.004.02

► Portable compasses

◢ 25.066.04

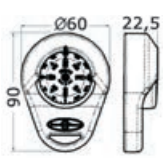
◢ 25.066.08

◢ 25.066.02

◢ 25.066.06

◢ 25.066.01

◢ 25.066.03



◢ Mizar model

◢ Orion model

RIVIERA compass with soft casing

Impact resistant; fitted with neck strap; ideal for surfing, for small boats or as emergency compasses and as bearing compasses as they have a front and double upper reading; 5° to 5° rose graduation, pin suspension, **floating**.

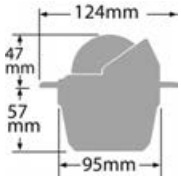
Models:
-"MIZAR": with fixed ring
-"ORION": with external turning ring

Model		Color	Ø apparent rose
MIZAR	ORION		
25.066.04	**25.066.08**	blue	1"7/8
25.066.02	**25.066.06**	yellow	1"7/8
25.066.01	-	grey	1"7/8
25.066.03	-	red	1"7/8

► RITCHIE ® Navigation compasses

RITCHIE Explorer 2" 3/4 (70 mm) compasses with compensators and night lighting

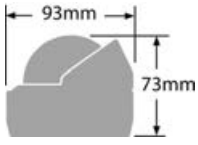
Version			12V LED lighting	Body	Dial
Built-in	External	With bracket			
25.081.01	**25.081.11**	**25.081.21**	Yes	Black	Black
25.081.02	**25.081.12**	**25.081.22**	Yes	White	White
-	**25.081.13**	**25.081.23**	Yes	Blue	Blue



◢ 25.081.01/02

◢ 25.081.01

◢ 25.081.02

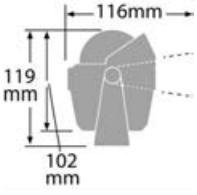


◢ 25.081.11/12/13

◢ 25.081.11

◢ 25.081.12

◢ 25.081.13



◢ 25.081.21/22/23

◢ 25.081.21

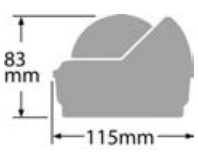
◢ 25.081.22

◢ 25.081.23

RITCHIE Voyager 3" (76 mm) compasses with compensators and night lighting

Front and top combi dial.

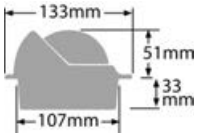
Version		12V LED lighting	Body	Dial
Built-in	External			
25.082.01	**25.082.11**	Yes	Black	Black
25.082.02	**25.082.12**	Yes	White	White



◢ 25.082.11/12

◢ 25.082.12

◢ 25.082.11



◢ 25.082.01/02

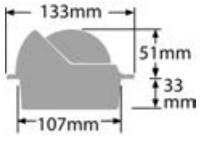
◢ 25.082.02

◢ 25.082.01

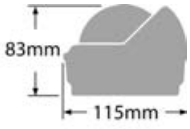
RITCHIE Wheelmark 3" (76 mm) compasses

Also type-tested for working boats.

Version		12V LED lighting	Body	Dial
Built-in	External			
25.082.31	**25.082.41**	Yes	Black	Black



◢ 25.082.31



◢ 25.082.41

RITCHIE Helmsman 3" 3/4 (94 mm) compasses with compensators and night lighting

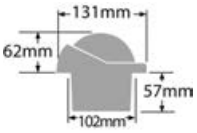
Flat card version		Front and top reading combo dial version	12V LED lighting	Lighting V	Body	Dial
built-in	with cover	built-in				
25.083.01	25.083.11	25.083.31	Yes	12	Black	Black
25.083.02	-	25.083.32	Yes	12	White	White
25.083.04	-	-	No	24	Black	Black

◢25.083.01/04

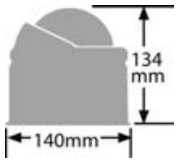
◢25.083.02

◢25.083.31

◢25.083.32



◢25.083.01/02/04/31/32



◢25.083.11

RITCHIE Navigator 4" 1/2 (114 mm) compasses with compensators and night lighting

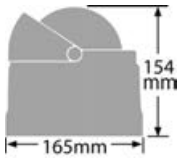
Flat card version		Front and top reading combo dial version	12V LED lighting	Body	Dial
built-in	with cover	built-in			
25.084.01	25.084.11	25.084.31	Yes	Black	Black
25.084.02	-	25.084.32	Yes	White	White

◢25.084.01

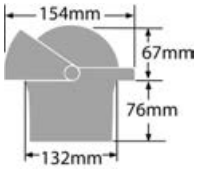
◢25.084.02

◢25.084.31

◢25.084.32



◢25.084.11



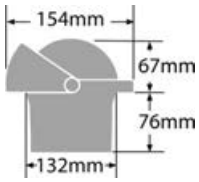
◢25.084.01/02/31/32

◢25.084.11

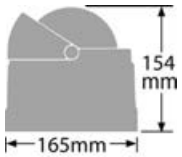
RITCHIE Wheelmark 4" 1/2 (114 mm) compasses

Also type-tested for working boats.

Version		12V LED lighting	Body	Dial
Built-in	with cover			
25.084.41	25.084.51	Yes	Black	Black



◢ 25.084.41

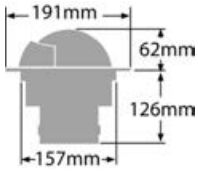


◢ 25.084.51

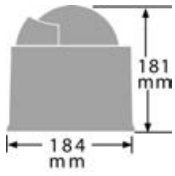
RITCHIE Globemaster 5" (127 mm) compasses with compensators and night lighting

Card with 5 ° white graduation. Night LED lighting.

Version		12V LED lighting	Body	Dial
Built-in	with cover			
25.085.01	**25.085.11**	Yes	Black	Black



◢ 25.085.01



◢ 25.085.11

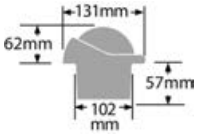
RITCHIE Supersport compasses

For offshore racing boats.

Black body, rose dial	White body, rose dial	12V LED lighting	Model	Size
25.087.01	**25.087.11**	Yes	Supersport SS-1002	3" 3/4 (94 mm)
25.087.02	**25.087.12**	Yes	Supersport SS-2000	4" 1/2 (114 mm)
25.087.03	**25.087.13**	Yes	Supersport SS-5000	5" (127 mm)

◢ 25.087.01

◢ 25.087.11



◢ 25.087.01/11

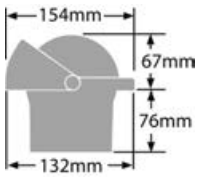
◢ 25.087.02

◢ 25.087.12

◢ 25.087.03

◢ 25.087.13

◢ 25.087.03/13



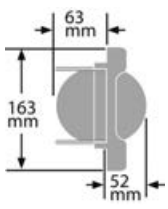
◢ 25.087.02/12

RITCHIE Venturi Sail / Navigator Sail compasses

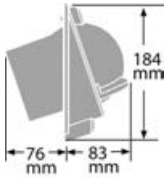
Bulkhead mount version for sailboats.

Code	Model	LED lighting	Body	Dial	Compensators	Light	Cover	
							front	rear
25.088.01	Venturi 3" 3/4 (94 mm)	12/24V	Black	Blue	No	Yes	**Included**	-
25.088.02	Navigator 4" 1/2 (114 mm)	12V	Black	Red	Yes	Yes	**25.088.41**	**25.088.31**

◢ 25.088.31



◢ 25.088.01



◢ 25.088.02

► Bearing compasses

Bearing and steering compass

25.900.00 Fitted with magnifying glass, double scale in grades and points, very stable, very clear night reading, side scale meter, kerosene suspension, 1° estimate possible. Specially suited for dinghies or small boats.

Bearing and steering compass “Japanese YCM”

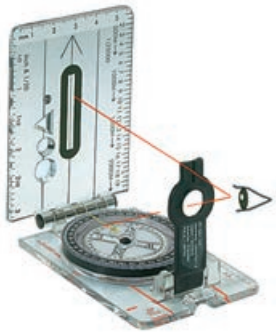
25.350.00 Fitted with magnifying glass, clear reading and very stable double scale, kerosene suspensions, 1° estimate possible; ideal for dinghies.

Pocket compass

Black ABS body, **liquid-filled** rose, swivelling gimbal ring fitted with an arrow to determine the route. Blister packaging.

Code	Rose Ø mm
25.950.00	45

Bearing compass CD703L



Liquid-filled compass with **rotating** rose, scale meter and foldable sight frame.

Code	⟷ open mm
25.703.00	57x160

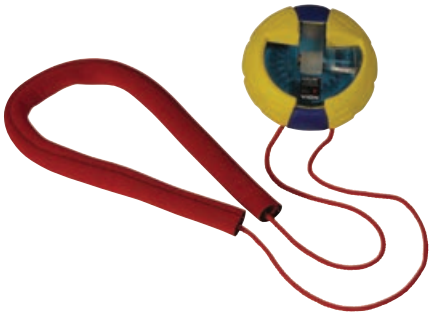
Bearing compass PRISMA with case

◢ 25.065.02

◢ 25.065.03

Code	Description
25.065.02	Model fitted with graduated circle of 1° in 1°, liquid suspension, straight prism reading; equipped with temperature variation adsorbing diaphragm, battery light. It can also be used as a steering compass.
25.065.03	Prisma compass wooden box.

Mini Compass 2000



Compass fitted with **rubber** anti-shock housing. BETA ray permanent lighting. Magnifying lens for use as both bearing compasses and steering compasses. It uses the twenty-year-old unmatched **direct vision** system without lubber lines. The rose image is enlarged **10 times**; no parallax, 0.5° interval estimate. Excellent rose stability and quickness.

Code	Ø mm	Thickness mm	g
25.420.30	80	29	120

► Marine binoculars and accessories

OSCULATI

Autofocus binoculars 7x50

Outer **rubber** coating; includes neckstrap and case.

Code	Focusing	Prisms	Vision field at 1000 m	Floating neckstrap
26.748.00	automatic (minimum distance of 12 m)	BK-7	115,3 m (6,6°)	26.762.00 OPTIONAL

Autofocus professional binoculars 7x50

100% watertight; anti-glare lens “Ruby-coating”; **rubber** coating, includes neckstrap and case.

Code	Focusing	Prisms	Vision field at 1000 m	Floating neckstrap
26.747.00	automatic (minimum distance of 20 m)	BK-7	116 m	26.762.00 OPTIONAL

Binoculars 7x50

100% watertight with external **rubber** coating; filled with nitrogen gas; anti-glare blue tinted lenses "Ruby Coating"; includes neckstrap and case.

Code	Focusing	Prisms	Vision field at 1000 m	Floating neckstrap
26.750.00	**entral or on** the eyepiece	BK-7	116 m	26.762.00 OPTIONAL

Professional binoculars 7x50

100% watertight; filled with nitrogen gas; high quality optical system; **rubber** coated; anti-glare lenses “Ruby coating”, includes neckstrap and case.

Code	Focusing	Prisms	Floating shoulder strap
26.752.00	Automatic and ocular	BaK4	26.762.00 OPTIONAL

Professional binoculars 7x50 fitted with compass

100% watertight; filled with nitrogen gas; fitted with **bearing compass with light** and a grid to measure distance; high quality optical system; coated with **rubber**, supplied with neckstrap and case, anti-glare lenses Ruby Coating.

Code	Focusing	Prisms	Floating shoulder strap
26.754.00	Automatic and ocular	BaK4	26.762.00 OPTIONAL

Binoculars ZOOM 10x30x50

Coated with **rubber**; joints a nautical field of Ø 50mm with zoom technology; fitted with quick operating lever, which enables a zoom range from 10 to 30 enlargements; includes neckstrap and case.

Code	Focusing	Ø mm	Floating neckstrap
26.751.00	central or on the eyepiece	50	26.762.00 OPTIONAL

Binoculars floating shoulder strap

Made of **rubber foam** painted in bright colours that keeps the binoculars afloat so that it can be easily located. With adjustable nylon straps.

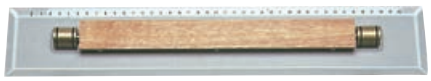
Code	⟷ mm
26.762.00	500x55

Binoculars holder

Made of fast white polyethylene.
Bulkhead mounting or on 22/25-mm Ø tube with clamp included in the package.

Code	Description	⟷ mm
26.740.00	Binoculars holder	230x120x85

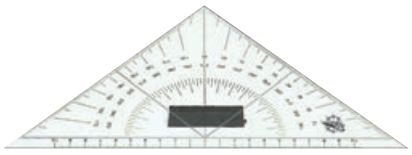
► Navigation instruments and inclinometer



Plexiglass rolling plotter

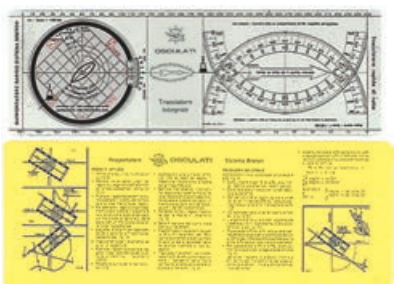
Fitted with sexagesimal graduation; simply and immediate use.

Code	Length mm
26.142.50	450



Plexiglass triangular protractor

Code	Description
26.142.40	Modell geeignet für die Kartenarbeit. Mit Griff, Doppelwinkelmesser integriert.



Parallel rule Integral Plotter

All fitted in **just one** device, the Bretone protractor and the Jean CRAS quick system protractor; includes casing and instructions; suitable for measuring distances, adjust variations, transport a fixing point, plot a coast route, bearing according to the compass graduation, etc...

Code	Length mm
26.142.85	350

Parallel ruler Micron

Made of **transparent plexiglass**; high accuracy, fine finish.

Code	Length cm
26.142.70	30
26.142.71	40
26.142.72	50

Navigation compasses

Hard mirror polished steel points; excellent finish, practical; supplied with plastic case holder.

Code	Type	Length mm	Material
26.141.60	short	145	mirror polished brass
26.141.61	long	177	mirror polished brass
26.141.62	to be used with **just one hand**	177	mirror polished brass

◢ 26.141.60

◢ 26.141.61

◢ 26.141.62

Genuine German WEREIN plotting dividers

Made of **chromed brass**; supplied with casing and tips protector.

Code	Type	Length mm
26.142.60	short	140
26.142.61	long	180

Scuola charting kit

Cheap version. It includes 2 square sets, dividers, Graphos pencil + eraser in elegant case.

Code	⟷ closed mm
26.142.44	230x215

Charting kit

26.142.45 Supplied in a protective case.
The kit includes:
- 2 rulers 26.142.40;
- 1 compass 26.141.60;
- pencil and eraser.

Suitable for nautical schools, it can be customized with the school logo (minimum quantity 50 pieces).

Inclinometer

High precision double bubble inclinometer

Code	Scales	⟷ mm	Mounting
26.700.86	30°- 0° - 30° + 5° - 0° - 5°	100x80	4 screws or with self adhesive label provided
26.700.87 New	45°- 0° - 45° + 6° - 0° - 6°	101x82	4 screws

◢ 26.700.87

◢ 26.700.86

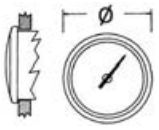
DAVIS MARK 15 SEXTANT plastic sextant

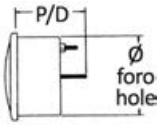
26.143.25 Having the same characteristics of professional sextants costing as little as one tenth. Made of ultra-strong plastic, it is fitted with micrometric or fast vernier adjustment, mirrors with sunshade, coloured filtering lens, etc.
It comes in an elegant case.

► Engine instruments

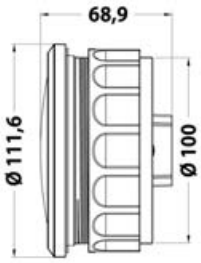
OSCULATI

Technical specification: IP67 **watertight** instruments; anti-fog convex clear lens; technopolymer frame; AISI316 stainless steel diamond front bezel, black or glossy; backlit display; rear pre-calibrated connection with bayonet plug; 12/24V power supply





LCD multifunction instrument



27.328.01 Compatible with NMEA2000 / J1939 / analog protocols.
To be used with any outboard / inboard engine except Mercury with SMARTCRAFT protocol.
Functions:
- speedometer via GPS signal ((Knots, km/h, MPH);
- counter w/full scale freely selectable from 3000 to 8000 RPM;
- hourmeter;
- fuel level + alarm 10%. Freely selectable 0-190 / 240-33 ohm;
- oil pressure + alarm at 0.7 bar (preferred scale bar/psi freely selectable);
- water temperature + alarm 95° (Celsius / Fahrenheit scale) freely selectable.

Backlit (clearly legible even when exposed to sunlight), adjustable lighting. Power supply 9/32 V.
Resolution: 432x432 pixel.
Supplied with: 1m 5-pole NMEA cable with standard end connector, 1m 6-pole-analog cable.

Universal electronic revolution counter with hour counter

◀ 27.327.01

◀ 27.326.02

Connection to the alternator "w" terminal.

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.325.01	**27.326.01**	**27.327.01**	0-3000 RPM	12/24	96	85	55
27.325.02	**27.326.02**	**27.327.02**	0-4000 RPM	12/24	96	85	55
27.325.03	**27.326.03**	**27.327.03**	0-6000 RPM	12/24	96	85	55
27.325.04	**27.326.04**	**27.327.04**	0-8000 RPM	12/24	96	85	55

◀ 27.325.03

◀ 27.327.04

GPS speedometer/mile counter without transducer

◀ 27.781.01

◀ 27.780.02

◀ 27.780.03

◀ 27.781.03

No transducer is necessary, it is equipped with 32-channel GPS antenna.
- Type 1: Speedometer/compass: 0-45 knot speed analogic indication and compass course digital indication (degree by degree).
- Type 2: Speedometer/totalizer/compass: speed digital indication 0-999 knots, Km/h or MPH, distance covered up to 99999 miles and compass course (degree by degree).

Black dial, black bezel	Black dial, glossy bezel	Glossy dial, glossy bezel	Version	V	⟷ mm		
					Ø	Ø hole	P
27.780.02	**27.780.03**	**27.780.01**	Type 1	12	96	85	55
27.781.02	**27.781.03**	**27.781.01**	Type 2	12/24	96	85	55

◀ 27.780.01

◀ 27.781.02

Speedometer with (water pressure) Pitot tube

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.325.08	**27.326.08**	**27.327.08**	0-35 MPH	12/24	96	85	55
27.325.09	**27.326.09**	**27.327.09**	0-55 MPH	12/24	96	85	55
27.325.10	**27.326.10**	**27.327.10**	0-65 MPH	12/24	96	85	55

27.325.00 *Anti-seedweed nozzle kit for speedometer 27.315.00 + 6-m high-pressure PVC tube 27.316.00*

Fuel level gauge

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Signal	V	⟷ mm		
					A	B	C
27.320.01	**27.321.01**	**27.322.01**	240-33 Ω	12/24	57	51	45
27.320.00	**27.321.00**	**27.322.00**	10-180 Ω	12/24	57	51	45

Water level gauge

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Signal	V	⟷ mm		
					Ø	hole Ø	P
27.320.03	**27.321.03**	**27.322.03**	240-33 Ω	12/24	57	51	45
27.320.29	**27.321.29**	**27.322.29**	10-180 Ω	12/24	57	51	45

Water temperature gauge

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.08	**27.321.08**	**27.322.08**	40-120°C	12/24	57	51	45

Oil temperature indicator

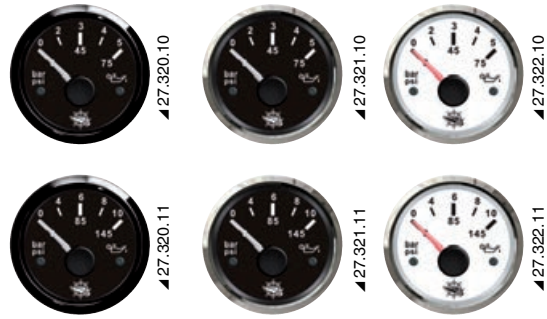
Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.09	**27.321.09**	**27.322.09**	50-150°C	12/24	57	51	45

Voltmeter

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.14	**27.321.14**	**27.322.14**	8/16 V	12	57	51	45
27.320.15	**27.321.15**	**27.322.15**	18/32 V	24	57	51	45

Oil pressure indicator

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.10	**27.321.10**	**27.322.10**	0-5 bar	12/24	57	51	45
27.320.11	**27.321.11**	**27.322.11**	0-10 bar	12/24	57	51	45



27.320.17

27.321.17

27.322.17

Rudder angle indicator

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Signal	V	⟷ mm		
					Ø	hole Ø	P
27.320.17	27.321.17	27.322.17	0-190 Ω	12/24	57	51	45

27.320.20

27.321.20

27.322.20

TRIM indicator

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Signal	V	⟷ mm		
					Ø	hole Ø	P
27.320.20	27.321.20	27.322.20	0-190 Ω	12/24	57	51	45

27.320.27

27.321.27

27.322.27

Quartz clock

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.27	27.321.27	27.322.27	12 hours	12/24	57	51	45

27.320.23

27.321.23

27.322.23

27.320.24

27.321.24

27.322.24

Ammeter

With 8/32 V SHUNT, suitable for most of the ammeters on the market.

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.23	27.321.23	27.322.23	± 50 A	12/24	57	51	45
27.320.24	27.321.24	27.322.24	± 80 A	12/24	57	51	45

27.320.05

27.321.05

27.322.05

Blackwater gauge

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Signal	V	⟷ mm		
					Ø	hole Ø	P
27.320.05	27.321.05	27.322.05	10-180 Ω	12/24	57	51	45

27.320.40

27.321.40

27.322.40

Digital voltmeter

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.40	27.321.40	27.322.40	8/32 volt	12/24	57	51	45

27.320.44

27.321.44

27.322.44

Digital ammeter

With 8/32-volt SHUNT.

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.44	27.321.44	27.322.44	± 80 A	12/24	57	51	45

27.320.36

27.321.36

27.322.36

Digital hour counter

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Scale	V	⟷ mm		
					Ø	hole Ø	P
27.320.36	27.321.36	27.322.36	0-99999 hours	12/24	57	51	45

27.320.38

27.321.38

27.322.38

Navigation controller

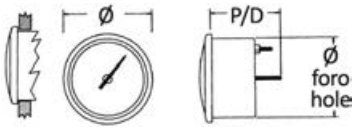
When connected to the navigation light power line, this device detects which lights are on, off or faulty. Fitted with box controller. It works with both **traditional and LED light bulbs**.

Black dial, black bezel	Black dial, polished bezel	White dial, polished bezel	V	⟷ mm		
				Ø	hole Ø	P
27.320.38	27.321.38	27.322.38	12/24	57	51	45

► GUARDIAN line, high-quality instruments

guardian

Technical features: - Sturdy nylon and fiberglass body; Screw-ring mounting or unique recess fit system; Mobile interchangeable bayonet bezel, black, white or chromed (available upon request), allowing back bulkhead mounting with glass flush with dashboard; Scratch-proof glass; Red back lighting for black dial instruments, and natural light for white dial instruments; 100% watertight; Standard size compatible with most instruments available on the market.



GUARDIAN RPM counter

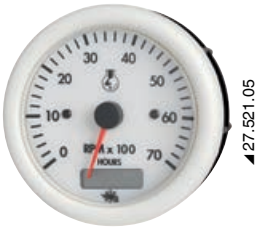
White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	Type	V	⟷ mm		
					Ø	Ø hole	P
27.520.01	**27.420.01**	**27.455.01**	Diesel 0-4000 RPM*	12	96	85	60
27.520.02	**27.420.02**	**27.455.01**	Diesel 0-4000 RPM*	24	96	85	60
27.520.05	**27.420.05**	**27.455.01**	Diesel 0-4000 RPM, w/hourmeter*	12	96	85	60
27.520.06	**27.420.06**	**27.455.01**	Diesel 0-4000 RPM, w/hourmeter*	24	96	85	60
27.521.01	**27.421.01**	**27.455.01**	2/4 stroke 0-7000 RPM	12	96	85	60
27.521.05	**27.421.05**	**27.455.01**	2/4 stroke 0-7000 RPM, w/hourmeter	12	96	85	60

* *Connection to terminal W of the alternator*

◢27.520.01

◢27.521.05 + 27.455.01

◢27.421.01



◢27.521.05

◢27.420.05

◢27.421.01 + 27.455.01

GUARDIAN speedometers

White dial, white bezel	Black dial, black bezel	OPTIONAL chromed bezel	Type	V	⟷ mm			Sensor*
					Ø	Ø hole	P	
27.522.01	**27.422.01**	**27.455.01**	0-30 knots	12	96	85	60	**27.452.00**
27.522.02	**-**	**27.455.01**	0-30 knots	24	96	85	60	**27.452.00**
27.523.01	**-**	**27.455.01**	0-30 knots with log	12	96	85	60	**27.452.00**
27.524.01	**27.424.01**	**27.455.01**	0-50 knots	12	96	85	60	**27.452.00**
27.525.01	**27.425.01**	**27.455.01**	0-50 knots with log	12	96	85	60	**27.452.00**
27.525.02	**-**	**27.455.01**	0-50 knots with log	24	96	85	60	**27.452.00**

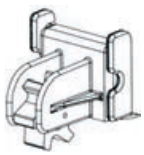
* *All speedometers to be equipped with their sensor.*

◢27.522.01

◢27.424.01

◢27.425.01

◢27.524.01 + 27.455.01



◢27.452.00 - Guardian electronic sensor for speedometers/mile counters

◢27.425.01 + 27.455.01

GUARDIAN fuel level gauge 10-180 ohm

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	V	⟷ mm		
				Ø	Ø hole	P
27.527.01	**27.427.01**	**27.455.02**	12	59	52	45
27.527.02	**27.427.02**	**27.455.02**	24	59	52	45

◢27.427.01

◢27.527.01

GUARDIAN water level gauge 10-180 ohm

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	V	⟷ mm		
				Ø	Ø hole	P
27.528.01	**27.428.01**	**27.455.02**	12	59	52	45
27.528.02	**27.428.02**	**27.455.02**	24	59	52	45

◢27.428.01

◢27.428.01 + 27.455.02

◢27.528.01

◢27.531.01

◢27.432.01

GUARDIAN temperature gauges

White dial, white bezel	Black dial, black bezel	OPTIONAL chromed bezel	Type	V	⟷ mm		
					Ø	Ø hole	P
27.531.01	27.431.01	27.455.02	H2O 40°-120°	12	59	52	45
27.531.02	27.431.02	27.455.02	H2O 40°-120°	24	59	52	45
27.532.01	27.432.01	27.455.02	Oil 40°-150°	12	59	52	45
27.532.02	27.432.02	27.455.02	Oil 40°-150°	24	59	52	45

Use VDO oil pressure sensors

◢27.429.01

◢27.529.02

◢27.529.02 + 27.455.02

GUARDIAN oil pressure gauge

White dial, white ring	Black dial, black ring	OPTIONAL chromed bezel	Type	V	⟷ mm		
					Ø	Ø hole	P
27.529.01	27.429.01	27.455.02	0-5 bar	12	59	52	45
27.530.01	27.430.01	27.455.02	0-5 bar	24	59	52	45
27.529.02	27.429.02	27.455.02	0-10 bar	12	59	52	45
27.530.02	27.430.02	27.455.02	0-10 bar	24	59	52	45

Use VDO oil pressure sensors

◢27.433.02

◢27.533.01

◢27.433.01

GUARDIAN voltmeter

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	V CC	⟷ mm		
				Ø	Ø hole	P
27.533.01	27.433.01	27.455.02	10/16	59	52	45
27.533.02	27.433.02	27.455.02	20/32	59	52	45

◢27.434.01

◢27.534.01

GUARDIAN hourmeters

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	V	⟷ mm		
				Ø	Ø hole	P
27.534.01	27.434.01	27.455.02	12	59	52	45
27.534.02	27.434.02	27.455.02	24	59	52	45

◢27.436.01

◢27.536.01

GUARDIAN ammeter

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	A	⟷ mm		
				Ø	Ø hole	P
27.536.01	27.436.01	27.455.02	30-0-30	59	52	45
27.536.02	27.436.02	27.455.02	60-0-60	59	52	45

◢27.438.01

◢27.538.01 + 27.455.02

◢27.538.01

Waste GUARDIAN 10-180 ohm waste water gauge

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	V	⟷ mm		
				Ø	Ø hole	P
27.538.01	27.438.01	27.455.02	12	59	52	45
27.538.02	27.438.02	27.455.02	24	59	52	45

◢27.439.01

◢27.539.01

GUARDIAN Power Trim

To be coupled with genuine sensors of Mercury engines.

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	V	⟷ mm		
				Ø	Ø hole	P
27.539.01	27.439.01	27.455.02	12	59	52	45

GUARDIAN loose bezel

White	Chromed	Black	Ø mm
27.457.02	27.455.02	27.456.02	59
27.457.01	27.455.01	27.456.01	96

Raised glass for GUARDIAN instruments

Designed for instrument mounting **flush mount on the panel** (behind the bulkhead).

Code	Instrument Ø mm
27.453.01	85
27.453.02	52

► VDO instruments, ViewLine series

Revolution counter VDO ViewLine

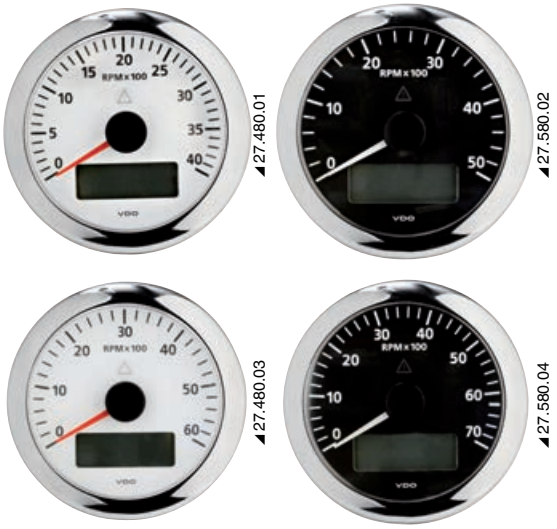
IP67 watertight case; double anti-fog pane; LED back-lit LED dial and needle; panel or flush mounting of the instruments; interface with NMEA signal; second frequency available as an option.
All instruments are equipped with finishing ring having the same color as their dial. RPM counter and sumlog equipped with ring 27.499.01 or 27.599.01. 52-mm Ø instruments equipped with ring 27.499.03 or 27.599.03.

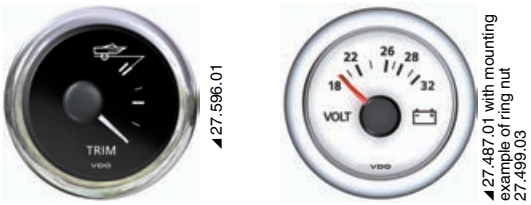
AA - The revolution counters have to be equipped with: cable 27.599.11 (RPM counter function, only); additional cable 27.599.12 for other functions: hour counter, clock, voltmeter; push-button 27.599.13 necessary for basic and advanced programming of the RPM counter.
EE - The synchronizers have to be fitted with cables 27.599.11 + 27.599.12.
BB - The sumlogs have to be equipped with:cable 27.599.11 (speedometer function, only); additional cable 27.599.12 for other functions: partial/total mile sumlog, depth sounder, water temperature, clock, voltmeter + push-button 27.599.13; multifunction transducer 27.581.50.
CC - The 52-mm Ø control instruments have to be equipped with: cable 27.599.11
DD - The rudder angle metres have to be equipped with: sensors 27.176.00 / 27.176.10 + cable 27.599.11.

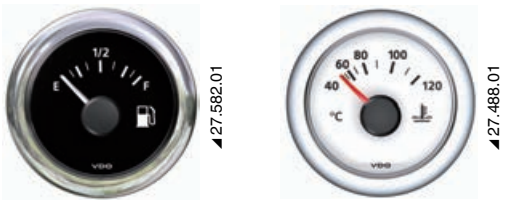
Product	Product Ø mm	Dial		V
		white	black	
Revolution counter with partial and total hour counter + clock + voltmeter		-	-	-
Scale 3000 RPM Input: W, IND, DDEC, HALL, 1	85	**27.480.00**	**27.580.00**	12/24
Scale 4000 RPM Input: W, IND, DDEC, HALL, 1	85	**27.480.01**	**27.580.01**	12/24
Scale 5000 RPM Input: W, IND, HALL, 1	85	**27.480.02**	**27.580.02**	12/24
Scale 6000 RPM Input: W, IND, HALL, 1	85	**27.480.03**	**27.580.03**	12/24
Scale 7000 RPM Input: 1	85	**27.480.04**	**27.580.04**	12/24
± 500 RPM synchronizer	85	**27.480.10**	**27.580.10**	12/24
Triducer with extractable label to match the sumlog, fitted with thru hull (speed + depth + water temperature)	52	**27.581.50**	**27.581.50**	-
10/180 Ω fuel level indicator	52	**27.482.01**	**27.582.01**	12/24
240/33 Ω fuel level indicator	52	**27.482.21**	**27.582.21**	12/24
10/180 Ω H2O level indicator	52	**27.484.01**	**27.584.01**	12/24
20 mA waste water level indicator (float 27.678.01/02)	52	**27.485.01**	**27.585.01**	12/24
8/16 V voltmeter	52	**27.486.01**	**27.586.01**	12
18/32 V voltmeter	52	**27.487.01**	**27.587.01**	24
40/120°C + 105/250°F H2O thermometer	52	**27.488.01**	**27.588.01**	12/24
50/150°C + 120/300°F oil thermometer	52	**27.489.01**	**27.589.01**	12/24
-60A + 60A ammeter	52	**27.490.01**	**27.590.01**	12/24
5 bar/80psi engine oil pressure	52	**27.491.01**	**27.591.01**	12/24
10 bar/150 psi engine oil pressure	52	**27.492.01**	**27.592.01**	12/24
25 bar/350 psi engine oil pressure	52	**27.493.01**	**27.593.01**	12/24
Rudder angle indicator** (3/180 Ω)	52	**27.495.01**	**27.595.01**	12/24
TRIM indicator (167-10 Ω input)	52	**27.496.01**	**27.596.01**	12/24
Hour counter	52	**27.494.01**	**27.594.01**	12/24
0-2 bar turbo pressure gauge	52	**27.497.01**	**27.597.01**	12/24

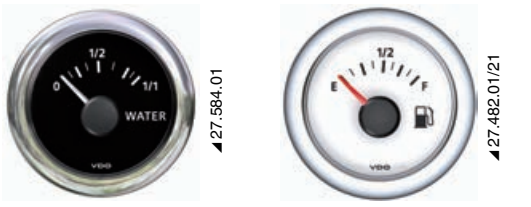
LEGENDA: W = signal W alternator; IND= VDO inductive sensor; DDEC = Electronic adjuster; HALL= HALL VDO effect sensor; 1= Terminal 1 reel.

27.599.11 *TYCO/HIRSCHMANN-type 8-pole connector with cable*
27.599.12 *TYCO/HIRSCHMANN 14-pole connector with cable*
27.599.13 *Programming key*
** **27.176.00; 27.176.10** *Rudder sensors 27.495.01; 27.595.01;*





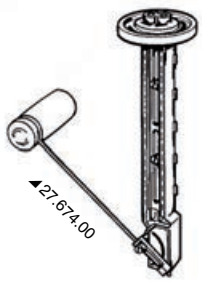




VDO finishing rings for ViewLine instruments

White	Chromed	Black	Finishing	Ø mm
27.499.01	**27.699.01**	**27.599.01**	Ray round	85
27.499.03	**27.699.03**	**27.599.03**	Ray round	52

► Accessories for VDO series Oceand and View Line



VDO - Fuel tank float

Code	Description	Resistance Ω	V
27.674.00	150- to 605-mm adjustable lever float fitted with fastening counterflange 27.674.10	3-180	12/24
27.674.10	Kit including 2 x metal ring nuts + 2 x fastening seals (screws included)	-	

Float for water tank

Float for capacitative water tank. It can be cut on demand. It matches instruments 27.574.02 OCEAN series.

Code	For depth mm
27.677.00	80-600
27.677.01	600-1200
27.677.02	1200-1500

VDO sensor for grey or black water tanks

Sensor for grey or black water tanks, with electrolytic separator and 2 adjustable warning thresholds. They match 27.485.01, 27.585.01, 27.474.18 (VIEW LINE + OCEAN).

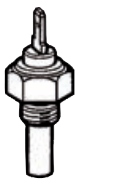
Code	Adjustable range mm
27.678.01	200/600
27.678.02	600/1200

VDO Rudder angle sensor

Code	Station	V
27.176.00	single	12/24
27.176.10	double	12/24

VDO Resistors to feed at 24V

Code	Suitable for
27.599.15	all Ø mm 52 instruments



Water/oil temperature sensor

To be paired to indicators Osculati, Guardian, VDO, etc.

Code	Version	Range	Thread	Poles		With alarm
				grounded	insulated	
27.792.00	Water	70° - 120°	M 14 x 1.5	x		x
27.810.00	Water	70° - 120°	M 14 x 1.5	x		
27.811.00	Oil	50° - 150°	M 14 x 1.5	x		
27.812.00**	Oil	70° - 120°	1/4 x 18NPT		x	x
27.812.01	Water	70° - 120°	1/4 x 18NPT	x		
27.812.02	Water	70° - 120°	1/4 x 18NPT			x
27.812.03	Oil	50° - 150°	1/4 x 18NPT			x
27.813.00	Oil	50° - 150°	M 14 x 1.5	x		x
27.818.00	Water	70° - 120°	M 14 x 1.5		x	
27.818.01	Oil	70° - 120°	M 14 x 1.5		x	
27.819.00	Water	70° - 120°	1/2 - 14NPT		x	
27.819.01	Oil	70° - 120°	1/2 - 14NPT	x		
27.819.02	Water	70° - 120°	1/2 - 14NPT			x
27.819.03	Oil	50° - 150°	1/2 - 14NPT			x
27.826.00*	Olio	70° - 120°	M 14 x 1.5		x	
27.826.01	Olio	50° - 150°	M 14 x 1.5		x	
27.877.03	Water	70° - 120°	M 18 x 1.5		x	
27.827.00	Water	40° - 120°	M 18 x 1.5	x		
27.827.01	Olio	50° - 150°	M 18 x 1.5	x		
27.827.02	Water	40° - 120°	M 18 x 1.5	x		x
27.827.03	Olio	50° - 150°	M 18 x 1.5			x
27.450.00	Water	70° - 120°	1/8" - 27NPT	x		
27.450.01	Olio	70° - 120°	1/8" - 27NPT	x		
27.450.02	Oil	50° - 150°	1/8" - 27NPT	x		

* *Genuine VDO - Bosch type.*

** *Genuine VDO.*

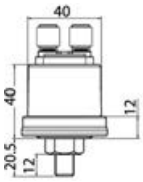
Oil pressure bulbs

Signal output 10 - 184 Ω. To be paired with indicators Osculati, Guardian, VDO, etc.
Rated voltage: 6 V to 24 V.

Code	Bar	Thread	Grounded		With alarm	Preset for double station
			Poles	Poles		
27.500.00	5	1/8-27 NPT	x			
27.561.01	5	1/8-27 NPT		x		
27.565.01	5	1/8-27 NPT	x		x	
27.501.00*	5	M 10x1	x			
27.561.00*	5	M 10x1		x		
27.565.03	5	M 10x1	x		x	
27.502.00	10	1/8-27 NPT	x			
27.557.00*	10	1/8-27 NPT		x		x
27.563.00	10	1/8-27 NPT		x		
27.565.00	10	1/8-27 NPT	x			
27.503.00	10	M 10x1	x			
27.507.00	10	M 10x1	x		x	
27.562.00	10	M 10x1		x		
27.502.01*	25	1/8-27 NPT	x			
27.558.00*	25	1/8-27 NPT		x		x
27.564.01*	25	1/8-27 NPT		x		
27.564.00*	25	M 14x1.5				

* *Genuine VDO*

◢27.501.00



◢27.561.00

VDO spare propeller

Code	Description
27.270.05	Spare propeller for 50 knots (2192)(2192)

► Accessories for instruments

Rudder angle sensor

27.330.01 0-190 Ωrudder angle sensor.
It matches 27.320.17 / 27.321.17 / 27.322.17 and VDO instruments.

Universal pilot pipe

27.315.00 Suitable for any water pressure speedometer; can be used up to 80 MPH, made of **white nylon**.

Special high pressure hose, designed for water pressure speedometers

Made of **PVC**, **universal**.

Code	Reel
27.316.00	25 m

NMEA 2000 connector

IP68

Cables and connectors to create an onboard NMEA 2000 network.
Sturdy IP68 connectors for use in marine environment.

Code	Description	Length m	Color
27.362.02	Male/female cable	1	Grey
27.362.04	Male/female cable	3	Grey
27.362.06	Male/female cable	6	Grey
27.363.02	TEE (2 female/ 1 male)	-	Grey
27.364.01	Male terminal connector	-	Black
27.364.02	Female terminal connector	-	Black
27.363.15	Power cord to power the system via a TEE terminal	5	Yellow

◢27.363.02

◢27.363.15

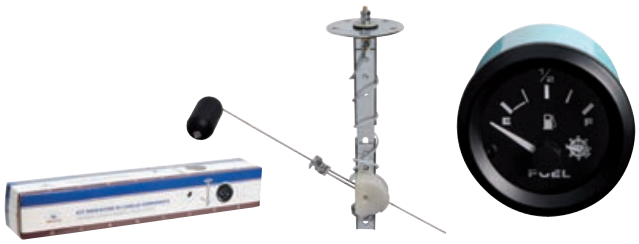
◢27.362.02/04/06

◢27.364.02

◢27.364.01

► Level indicator + sensors

Fuel level indicator



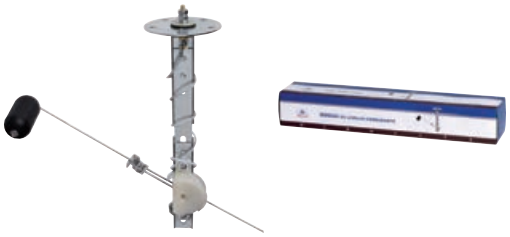
Waterproof, fitted with floater and FUEL symbol. 240-33 Ω frequency.
For 12V installations.

Code	Ø mm	Tank depth mm
27.160.00	52	130/660

Universal Gauge

TANK letter symbol (suitable for any type of liquid).

Resistance		Ø mm
10-180 Ω	240-33 Ω	
27.159.00	**27.170.00**	52



Universal floater for fuel level gauge

5-hole international flange. 70-mm Ø.

Resistance 240-33 ohms (Teleflex, Faria USA, Vetus, S. Giorgio Sein, Beede, Medalion)	Resistance 10-180 ohms (VDO, Yazaki, Faria Europa, Uflex, Guardian)	Tank depth mm
27.160.01	**27.160.02**	130/660

Universal lever float for fuel level

Metal parts made of **stainless steel.** Scratch-proof, made of **ceramic** with **platinum** contact (4 million movements guaranteed). Adjustable for tanks with height of 150-600. Mobile rod delay patented system, neutralizes the pitch/roll effect.

Code	Resistance Ω
27.160.05	240-33
27.160.06	10-180

OSCULATI

Vertical 5-hole level sensor with S5 flange

WATER+FUEL Ideal **for either fuel or water . Any length available for a minimum order of 10 pieces.** 12/24 V compatible. 316 stainless steel.

Resistance 240/33 Ω*	Resistance 10/180 Ω**	Length cm
27.160.15	**27.161.15**	15
27.160.17	**27.161.17**	17
27.160.20	**27.161.20**	20
27.160.22	**27.161.22**	22
27.160.25	**27.161.25**	25
27.160.28	**27.161.28**	28
27.160.30	**27.161.30**	30
27.160.32	**27.161.32**	32
27.160.35	**27.161.35**	35
27.160.36	**-**	36
27.160.38	**-**	38
27.160.40	**27.161.40**	40
27.160.45	**27.161.45**	45
27.160.47	**-**	47
27.160.48	**-**	48
27.160.50	**27.161.50**	50
27.160.53	**-**	53
27.160.55	**27.161.55**	55
27.160.58	**-**	58
-	**27.161.59**	59
27.160.60	**27.161.60**	60
27.160.63	**-**	63
27.160.65	**27.161.65**	65
27.160.70	**27.161.70**	70
27.160.80	**27.161.80**	80
27.160.90	**27.161.90**	90
27.160.10	**27.161.10**	100
27.160.11	**27.161.11**	110
27.160.12	**27.161.12**	120

* *For instuments: Teleflex, Aqua Meter, Vetus, S. Giorgio Sein (Veglia), Beede, Medallion, Datcom, 27.160.00, models Taiwan - Wena, Osculati.*

** *For instruments: Yazaki, mod. 3 wires, Faria Europa,VDO, Uflex, Guardian.*

Level sensor with NMEA 2000 outlet signal

SAE 5-bore international flange. **12/24V** compatible. IP65 watertight. **Stainless steel** body.
Level sensors are programmed to indicate **the use** of the tank (ex. black/grey/freshwater - fuel) and, if communicated when ordering the items, the **volume** that will be expressed in litres instead of in percentage. In case more than one tank for the same liquid is present onboard, the order shall also indicate the **numbering of the tanks** (ex. 1 - 2 - 3).

Version				Length mm
Fuel	Water	Grey water	Black water	
27.165.15	27.166.15	27.167.15	27.168.15	150
27.165.17	27.166.17	27.167.17	27.168.17	170
27.165.20	27.166.20	27.167.20	27.168.20	200
27.165.22	27.166.22	27.167.22	27.168.22	225
27.165.25	27.166.25	27.167.25	27.168.25	250
27.165.28	27.166.28	27.167.28	27.168.28	275
27.165.30	27.166.30	27.167.30	27.168.30	300
27.165.35	27.166.35	27.167.35	27.168.35	350
27.165.40	27.166.40	27.167.40	27.168.40	400
27.165.45	27.166.45	27.167.45	27.168.45	450
27.165.50	27.166.50	27.167.50	27.168.50	500
27.165.55	27.166.55	27.167.55	27.168.55	550
27.165.60	27.166.60	27.167.60	27.168.60	600
27.165.65	27.166.65	27.167.65	27.168.65	650
27.165.70	27.166.70	27.167.70	27.168.70	700
27.165.80	27.166.80	27.167.80	27.168.80	800
27.165.90	27.166.90	27.167.90	27.168.90	900
27.165.99	27.166.99	27.167.99	27.168.99	1000

Vertical level sensor with S3 threaded flange

WATER+FUEL

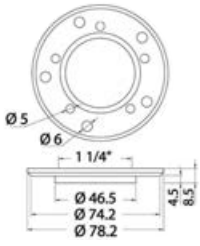
Ideal for **either fuel or water**. **Any length available for a minimum order of 10 pieces.** 12/24 V compatible. AISI316 stainless steel.

Resistance 240/33 Ω*	Resistance 10/180 Ω**	Length cm
27.170.17	-	17
27.170.20	27.171.20	20
27.170.22	-	22
27.170.25	27.171.25	25
27.170.28	27.171.28	28
27.170.30	27.171.30	30
27.170.35	27.171.35	35
27.170.40	27.171.40	40
27.170.45	-	45
27.170.50	-	50

* *For instruments: Teleflex, Aqua Meter, Vetus, S. Giorgio Sein (Veglia), Beede, Medallion, Datcom, 27.160.00, Taiwan-Wena and Osculati models.*
** *For instruments: Yazaki, mod. 3 wires, Faria Europa,VDO, Uflex, Guardian.*

Mounting flange for level sensors from S5 to S3

Code	Description
52.746.10	Useful to install S3 thread sensors on tanks ready to fit 5-bore flange (S5).



► GOBIUS level indicators

GOBIUS PRO level sensor - Bluetooth

BLUETOOTH

Sensor to be mounted on the outside of any tank whose vibrations indicate the inside level.
- It can be mounted on tanks of any materials.
- It works with any kind of liquid.
- Easy to install without drilling the tank (no leaks or bad smell).
- 1 to 9 sensors can be mounted on a single tank (each indicating a single step).

1 sensor only is recommended to show 3/4 waste water or water/fuel reserve.
Gobius Pro can be programmed via Bluetooth and it can be connected to a warning light, relay or buzzer.
It can be read **also via Bluetooth** (App available for download on your smartphone or other devices).
App languages: English, Italian, French, German, Norwegian, Swedish.

Code	Description	No. of sensors
27.182.01	GOBIUS PRO 1	1

► BARIGO Instruments

◢ 28.680.01

◢ 28.680.02

◢ 28.680.03

BARIGO instruments Tempo S

Brass body, very compact size.

Chromed brass	Polished brass	Type	Frame mm	Dial mm
28.680.01	**28.680.11**	clock with radio sectors	88x25	70
28.680.02	**28.680.12**	barometer	88x25	70
28.680.03	**28.680.13**	hygro/thermometer	88x25	70

◢ 28.680.11

◢ 28.680.12

◢ 28.680.13

◢ 28.683.00

◢ 28.683.01

BARIGO Instruments Tempo M

Mirror polished **stamped plate** housing, gilded and lacquered.

Code	Type	Body mm	Dial mm
28.683.00	Clock with Quartz movement	110x32	85
28.683.01	Quartz clock with **radio sectors**	110x32	85
28.183.00	Barometer	110x32	85
28.983.00	Thermometer/hydrometer	110x32	85

◢ 28.183.00

◢ 28.983.00

◢ 28.685.01

◢ 28.187.00

◢ 28.687.01

◢ 28.987.01

BARIGO Instruments Sky

110x32-mm **stainless steel** body, 85-mm Ø dial.

Satin SS body, white face	Polished SS body, white face	Description
28.185.00	**28.187.00**	Barometer
28.685.01	**28.687.01**	Clock
28.985.01	**28.987.01**	Hygrometer/thermometer

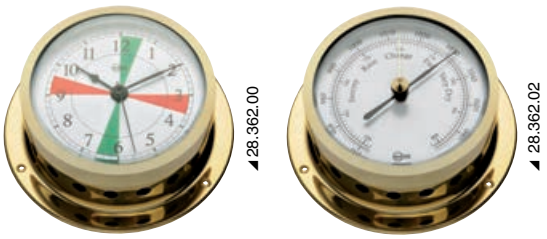
◢ 28.985.01

◢ 28.185.00

BARIGO Instruments: "Star"

High accuracy instruments, excellent finish; low-cost and high quality.

Type	Brass		Body Ø mm	Dial mm
	Chromed	Golden		
Barometer	**28.360.02**	**28.362.02**	110	85
Hair hygrometer with thermometer	**28.360.03**	**28.362.03**	110	85
Quartz clock with alarm	**28.360.01**	-	110	85
Quartz clock with **radio sectors**	**28.361.99**	**28.362.00**	110	85



BARIGO Instruments: "Orion"

Clip-on mounting on the base, modern pleasant design, specially suited for modern boats.

Type	Chromed stainless steel, black dial	Polished stainless steel, silver dial	Body Ø mm	Dial mm
Barometer	**28.082.30**	**28.083.30**	102	85
Quartz clock	**28.082.70**	**28.083.70**	102	85
Thermometer/hygrometer	**28.082.90**	**28.083.90**	102	85

BARIGO Instrument: Pentable

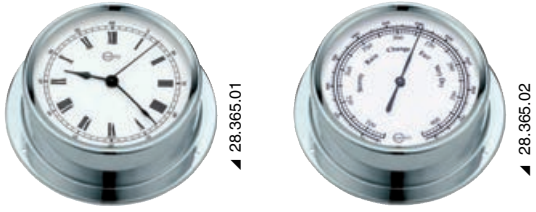
Satin/nickle-finish dark brass case, black dial.

Code	Version	Type	Case mm	Dial mm
28.086.01	Wall mounting	Clock	104x40	100
28.086.02	Wall mounting	Baro/Thermo/Hygrometer	104x40	100

BARIGO instruments: Regatta

High-quality brass body.

Type	Chromed brass - white dial	Polished brass - blue dial	Body mm	Dial mm
Quartz clock	**28.365.01**	**28.365.21**	120x40	100
Barometer	**28.365.02**	**28.365.22**	120x40	100
Hygro/Thermometer	**28.365.03**	**28.365.23**	120x40	100



28.080.01

28.080.02

BARIGO Steel instruments, minimalist series

Elegant minimalist design. Satin-finish stainless steel case.

Code	Type	Box mm	Dial mm
28.080.01	baro/thermo/hygrometer	102	100x40
28.080.02	quartz clock	102	100x40

Barometer/thermometer

Built-in alcohol thermometer; high quality finish; to be combined with clock 28.361.03.

Code	Box mm	Dial mm
28.364.03	180	150

Meteorological station

Fitted with barometer, thermometer and hygrometer; to be combined with clock 28.361.03.

Code	Box mm	Dial mm
28.364.04	180	150

Marine quartz clock with brass housing

High quality finish, very sturdy. Used by the US Navy; fitted with alarm bell system; mechanical alarm and stopwatch.

Code	Box mm	Dial mm
28.361.03	180	150

Vertical mahogany board fitted with 3 instruments - BARIGO

Code	Description
28.375.10	Instruments: barometer + quartz clock + thermo/hygrometer. Very fine finish, size 360x110 mm.

BARIGO instruments kit, fitted with 3 instruments

Mounted on a varnished mahogany board, very elegant, provides a nice decor look; also suitable for home use; mirror polished, lacquered brass instruments.

Code	Instrument	⟷ mm
28.700.21	Barometer/clock/Thermometer	370x130

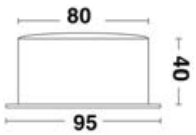
► VION Instruments

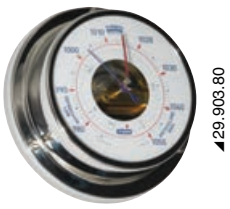
VION "A80 MIC CHR" instruments

Mirror polished stainless steel housing.

Code	Instrument	Base Ø mm	Dial Ø mm	Size mm
28.903.80	Barometer Hi-sensitive*	95	80	40
28.903.81	Quartz clock with radio sectos and radio silent	95	80	40
28.903.82	hygrometer + thermometer	95	80	40

* *With sensibility 1.5 times more than usual.*




◢ 29.903.80

◢ 28.903.81

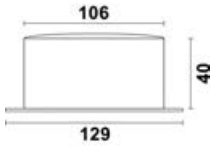
◢ 28.903.82

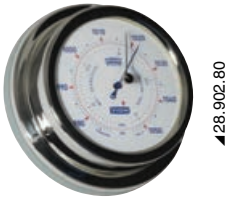
VION A 100 LD instruments

Mirror polished stainless steel housing; clip-on mounting system.

Code	Instrument	Base Ø mm	Dial Ø mm	Overhang mm
28.902.80	HI-sensitive barometer*	129	106	40
28.902.81	Quartz clock with readio sectors and radio silent	129	106	40
28.902.82	Hygrometer + thermometer	129	106	40
28.902.83	Tide clock	129	106	40

* *With sensibility 1.5 times more than usual.*




◢ 28.902.80

◢ 28.902.81

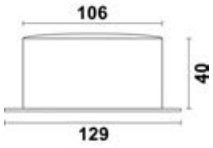
◢ 28.902.82

◢ 28.902.83

VION A100 SAT instruments

Stainless steel satin-finished housing, easy night reading thanks to its phosphorent dials and needles, includes mounting system.

Code	Instrument	Base Ø mm	Dial Ø mm	Overhang mm
28.858.01	Quartz clock with sector radio and silent radio	129	106	40
28.858.02	Traditional barometer	129	106	40
28.858.03	Hygrometer + thermometer	129	106	40



◢ 28.858.03

◢ 28.858.01

◢ 28.858.02

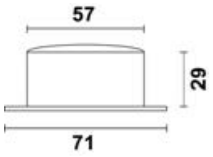
► ALTITUDE instruments

altitude

ALTITUDE instruments: "831 Mini Series"

Polished lacquered brass housing.

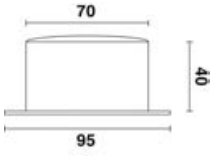
Code	Instrument	Base Ø mm	Height mm	Dial Ø mm
28.831.01	Quartz clock	71	29	57
28.831.02	Classical barometer	71	29	57
28.831.03	Hygrometer	71	29	57



ALTITUDE instruments: "842" Series

Polished lacquered brass housing.

Code	Instrument	Base Ø mm	Height mm	Dial Ø mm
28.750.01	Classical barometer	95	40	70
28.750.02	Clock with alarm and radio sectors	95	40	70
28.750.03	Hygrometer/thermometer	95	40	70



► Meteorological stations and barographs

New Compact radio-controlled meteo station

Data supplied:
- Radio-controlled time and date.
- Moon phases / calendar / alarm.
- Inside/outside temperature + min/max value registration.
- Air pressure graph over the last 12 hours.
- Weather trend indicator.
- Dawn and sunset hour of 193 locations.
- Bulkhead or flat mounting.

Code	⟷ mm
28.883.51	154x143x35

LA CROSSE WS1650 meteo station

Fitted with wireless radio-controlled outer sensors for **temperature, humidity, windmeter, rain gauge**.
The station receives data from sensors up to 150 m away (868 mHz).

Data supplied:
1) Radio-controlled **time** + calendar + settable alarms.
2) Celsius and Fahrenheit **outdoor/indoor temperature** with min/max and trend + outdoor air/water dew point, settable alarms.
3) **Humidity**: indoor 20% to 90%, outdoor 1% to 99%, min/max and trend, settable alarms.
4) **Air pressure** in hPa, mmHg, inHg from 850 hPa to 1050 hPa; graphic barometer with pressure chart of the last 24 hours and weather trend.
5) **Rain** gauge from 0 to 999 mm in total, last hour, last 24 hours, last day/week/month.
6) **Wind speed** in km/h, m/s, mph or knots..
7) **Wind direction** from 0 to 180 km/h; gust and average display.
8) **Moon phases**.
9) **Weather forecast with graphic icons** (sun, clouds, rain, etc.)
10) **LED backlit** display.

Code	Station
28.918.02	120x190x22 mm - 3xAA batteries

NOTICE: electronics is constantly developing so please verify the updated price and possible changes before ordering.

► FM radio/Bluetooth/USB/MP3

Bluetooth dashboard amplifier

BLUETOOTH

WATERPROOF

IP66

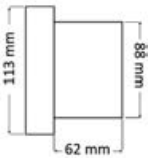
Amplifier with controls on the dashboard. It receives the music signal from any Bluetooth device (Smartphone, Tablet, etc.).

Input: Bluetooth, AUX and USB (AUX and USB at the rear of the amplifier).
Water-resistant and ideal for installation on the dashboard.
Separate output and controls for subwoofer.

Power: 4x45W.
Voltage: 12V.
Central knob for easy volume setting.

Code	Description	V
29.531.00	Bluetooth dashboard amplifier	12

OSCULATI



Bluetooth

Radio for instrument panel with remote control and DAB antenna

DAB VERSION

WATERPROOF

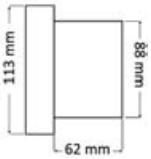
- Compatible devices: Bluetooth/USB/MP3/FM/DAB.
- Display: 3" colour screen, video line in/out.
- Also for external installation (IPX5 watertight front panel).
- Input: Bluetooth, USB, 1 x RCA stereo pair.
- Power: 4x40 W.
- Backup memory.
- 12V voltage.
- Accessories: DAB antenna, remote control.

Code	Description
29.530.02	Dashboard radio with accessories
29.530.08	Additional USB-AUX cord with watertight front panel. To be used for listening to music on external USB memories.

29.530.02

29.530.08

OSCULATI



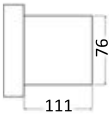
29.530.02

29.530.02

BOSS FM/AM/Bluetooth/USB/MP3 radio for dashboard

AM/FM radio with RDS system. 3.5-mm USB and AUX inlets on the rear (that can be mounted on the dashboard by means of accessory **29.530.08**).
Bluetooth connection for audio streaming, active matrix TFT display, IPX6 degree protection, 150W RMS power, 63W peak per channel.
12V power, 15A absorption. 76-mm Ø bore, 111-mm recess.

Code	Description
29.530.05	MGR350B radio for dashboard



RIVIERA R904 Bluetooth stereo amplifier

High power amplifier independent from the bridge stereo.
It receives the signal from any Bluetooth device (tablet, smartphone, etc.) and connects to no matter what stereo loudspeaker.
Designed and made to resist extreme weather conditions, it delivers top-quality sound.

Code	V	No. of channels	W RMS		⟷ mm
			4 ohm	2 ohm	
29.750.00	12	4	80x4	120x4	190x55x190

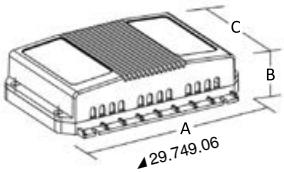
◢29.749.02

◢29.749.06

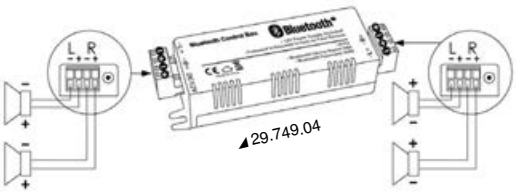
Bluetooth stereo/amplifiers

Ideal for small/medium vessels, the stereo doesn't need to be mounted on the dashboard.
The amplifier receives the music signal from any Bluetooth device (tablet, smartphone, etc.) and connects to no matter what loudspeaker.
Available in the 2-, 4- or 4+2-channel version. It works with any loudspeaker (max 8") on our catalogue.

Code	V	No. of channels	W RMS	⟷ mm AxBxC
29.749.02	12	2	2x30	122x42x28
29.749.04	12	4	4x30	122x42x28
29.749.06	12	4+2 subwoofers	4x30 + 2x60 (subwoofers)	206x48x148



◢29.749.06



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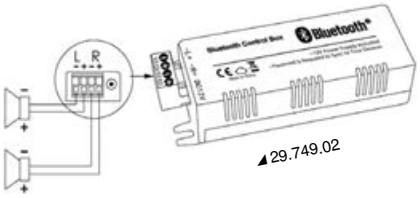


◢29.749.02

► AQUATIC AV marine stereos

AQUATIC AV

◢29.548.75

◢29.548.77

◢29.548.82

AQUATIC AV Bluecube Media Player

The BlueCube is a high quality, robust and durable waterproof marine grade stereo designed to be installed hidden away out-of-sight. It plays music wirelessly via a Bluetooth enabled smartphone or MP3 device (wired connection can also be made with stereo RCA inputs). It features an onboard 288W amplifier capable of powering up to 8 x 4 ohm speakers. It controls music directly from the Bluetooth enabled device or with the radio remote control 29.548.77.
BLUECUBE technical specification:
- Device Control: smartphone, MP3, Bluetooth device or radio remote control 29.548.77.
- Inputs: Bluetooth, RCA stereo (1x3.5 W auxiliary jack).
- Outputs: 2 x RCA (4V).
- Power (max): 4 x 72 W (2 and 4 ohm stable)
- Amplifier type: Class A/B.
- Power Supply: 12V.
- Current Draw: 7A max (0.006A in Standby mode).
- Waterproof: IP65. - Certifications: CE, RoHS, WEE, FCC.

Code	Description
29.548.75	Media Player Bluecube
29.548.77	Portable floating remote control with IP66 watertight USB cable, 12-m range, RF screen
29.548.82	Wired remote control, WR6 IP65 watertight cable

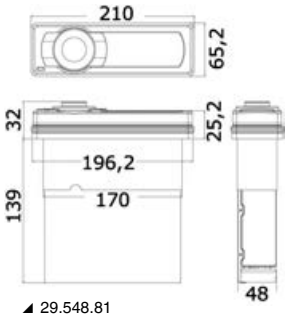
◢29.548.81

MP6 watertight tuner AQUATIC AV

IP65

- Supported Media: Bluetooth/USB/MP3/AM/FM/DAB (with adapter 29.548.83)/AUX (with rear USB connector).
- Display: TFT screen.
- Inputs: Bluetooth, 1xUSB, 1 pair of RCA.
- Outputs: 1 pair of 2V RCA pre-out.
- AM/FM Tuner: 18xFM and 12xAM pre-set memories, US/Euro frequencies.
- Power (max): 4x45W (4 ohms), 4x72W (2 ohms).
- Output voltage: 10.5 V – 14.4 VDC.
- IP65 waterproof.
- Accessories: clock (included).
- Additional features: stainless light alloy, silicone dashboard cover, 2 x external triggers (12V, 3A) for connection to amplifiers.

◢ 29.548.82

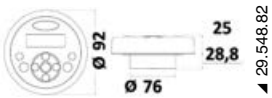


◢ 29.548.81

◢ 29.548.77

Code	Description	
29.548.81	MP6 watertight tuner	
29.548.82	IP65 watertight WR6 second station	
29.548.94	3.6-m connection cable for	29.548.82
29.548.95	7.2-m connection cable for	29.548.82
29.548.77	Portable floating remote control with IP66 watertight USB cable, 12-m range, RF screen	
29.548.83	Adapter for DAB reception	

◢ 29.548.83



◢ 29.548.82

AQUATIC AV MP6 compact watertight tuner

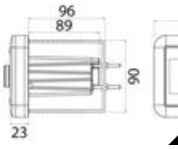
IP65

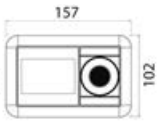
- Supported Media: Bluetooth, USB, MP3, AM, FM, DAB (with adapter 29.548.83), AUX (with rear USB connector).
- Display: TFT screen.
- Inputs: Bluetooth, 1xUSB, 1 pair of RCA.
- Outputs: 1 pair of 2V RCA pre-out.
- AM/FM Tuner.
- Power (max): 4x45W (4 ohms), 4x72W (2 ohms).
- Output voltage: 10.5 V – 14.4 VDC.
- IP65 protection degree.
- Accessories: clock (included).
- Additional features: stainless aluminium, silicone dashboard cover, 2 x external triggers (12V, 3A) for connection to amplifiers.

Code	Description
29.548.79	Compact CP6 watertight tuner
29.548.82	IP65 watertight WR6 second station
29.548.77	Portable remote control with IP66 watertight USB recharge cable, 12-m range, RF screen
29.548.83	Adapter for DAB reception

29.548.79

29.548.77

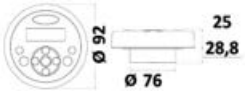




29.548.79

29.548.83

29.548.82



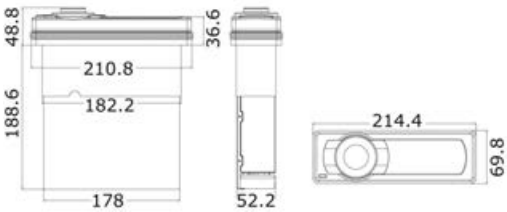
29.548.82

AQ-MP-5UBT-S watertight tuner AQUATIC AV

IP65

- Supported Media: IAP Bluetooth/USB/iPod/iPhone/MP3/AM/FM/AUX/SIRIUS XM. It fits devices up to the size of Samsung Galaxy Note and iPhone 6 Plus
- iPod/iPhone navigation: playlist, album, song, genre, composer, audiobook
- Device charging: via USB
- Display: 3" colour screen with album artwork display
- Removable faceplate + watertight USB port
- Dual Zone Dual Source: Yes
- Inputs: 1xUSB front/inside, 1x3.5 mm jack, 1 pair of RCA Aux, Bluetooth
- Outputs: 1xRCA Sub-out, 2 pairs of 4V RCA pre-out
- AM/FM Tuner: 18xFM, 12xAM Pre-set memories, US/Euro frequencies
- Power (max): 4x45W (4 ohms), 4x72W (2 ohms)
- Output voltage: 9.6 V – 14.4 VDC
- IP55 waterproof
- Chassis material: stainless steel
- Accessories: AQ-WR-5F remote control (sold separately), clock (included)
- Additional Features: internal dock lighting, 2xexternal triggers (12V DC, 350mA), DSP EQ, bass/treble, balance/fader, volume, stainless steel mounting hardware.

Code	Description	
29.548.90	watertight tuner	
29.548.91	second station (AQ-WR-5F)	
29.548.94	3.6-m connection cable for	29.548.90; 29.548.91
29.548.95	7.2-m connection cable for	29.548.90; 29.548.91



29.548.91

AQUATIC AV combined stereo, subwoofer and amplifier

Built-in 288W amplifier with electronic crossover powers both the **internal subwoofer** and up to four full-range speakers providing outstanding subwoofer performance.
It receives a stronger Bluetooth signal from smartphones and MP3 readers with Halo Aerial Technology. It can also be controlled via radio remote control 29.548.77.

Built-in amplifier technical specification:
- Device control: via Bluetooth, smartphone, MP3;
- Outputs: 2 x RCA (400 mV, 2/4 V);
- Power (max): 288 W (144 W + 144 W subwoofer);
- 125-20,000 Hz.

Subwoofer technical specification:
- 8" cone;
- Tuned subwoofer port;
- Power (max): 144 W;
- 26-125 Hz.

Code	Description
29.548.60	Stereo + subwoofer + amplifier
29.548.77	Floating portable remote control including IP66 watertight 12-m USB cable, Rf screen

29.548.60

29.548.77

► Radio panels

OSCULATI

Radio/stereo watertight front panel

Universal for all radios, made in compliance with DIN (European) standards and SAE (US) standards.

Code	Overhang mm	⟷ mm
29.735.00	46	230x86

► Boating stereo speakers

OSCULATI

◢29.741.XX

◢29.741.01/03/05/07

◢29.741.02/04/06/08

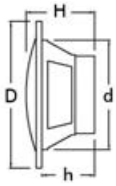
Dual cone loudspeakers

WATERPROOF **UV RESISTANT**

ABS body and polypropylene cone.

Code	Colour	Type	Power W		Response frequency Hz	Sensitivity dB	Compass min. distance m	⟷ mm			
			Rms	Max				D	d	H	h
29.741.01	White	3"	20x2	40x2	100-20000	90	0.80	104	73	53.5	38.5
29.741.02	Black	3"	20x2	40x2	100-20000	90	0.80	104	73	53.5	38.5
29.741.03	White	4"	30x2	60x2	60-20000	90	0.80	129	94	70	53.5
29.741.04	Black	4"	30x2	60x2	60-20000	90	0.80	129	94	70	53.5
29.741.05	White	5.25"	40x2	80x2	50-20000	90	0.80	157	124	75	53.5
29.741.06	Black	5.25"	40x2	80x2	50-20000	90	0.80	157	124	75	53.5
29.741.07	White	6.5"	60x2	120x2	50-20000	91	1.40	180	150	82	61
29.741.08	Black	6.5"	60x2	120x2	50-20000	91	1.40	180	150	82	61

◢29.741.02/04/06/08



◢29.743.01/03/05

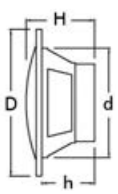
Dual cone loudspeakers

WATERPROOF **UV RESISTANT**

ABS case and polypropylene cone.

Code	Colour	Type	Power W		Response frequency Hz	Sensitivity dB	Compass min. distance m	⟷ mm			
			RMS	Max				D	d	H	h
29.743.01	White	5.25"	2x40	2x80	80-20000	90	1.00	166	121	83	57
29.743.02	Black	5.25"	2x40	2x80	80-20000	90	1.00	166	121	83	57
29.743.03	White	6.5"	2x60	2x120	60-20000	91	1.40	192	138	98	65
29.743.04	Black	6.5"	2x60	2x120	60-20000	91	1.40	192	138	98	65
29.743.05	White	8.0"	2x90	2x180	40-20000	91	1.40	232	184	124	89
29.743.06	Black	8.0"	2x90	2x180	40-20000	91	1.40	232	184	124	89

◢29.743.02/04/06

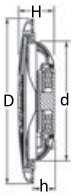


Extra-flat dual cone loudspeakers

WATERPROOF **UV RESISTANT**

ABS case, polypropylene cone. Ultra-flat version for **minimum recess**.

Code	Colour	Type	Power W		Response frequency Hz	Sensitivity dB	Compass min. distance m	⟷ mm			
			RMS	Max				D	d	H	h
29.742.01	White	4"	10x2	20x2	90-18000	90	0.80	133	95	38	23
29.742.02	Black	4"	10x2	20x2	90-18000	90	0.80	133	95	38	23
29.742.03	White	5.25"	20x2	40x2	80-18000	90	0.80	162.5	119	39.5	23
29.742.04	Black	5.25"	20x2	40x2	80-18000	90	0.80	162.5	119	39.5	23
29.742.05	White	6.5"	30x2	60x2	60-18000	91	1.00	186	135	40	23.5
29.742.06	Black	6.5"	30x2	60x2	60-18000	91	1.00	186	135	40	23.5



◢29.742.01/03/05

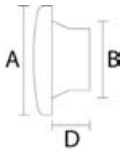
◢29.742.02/04/06

2-way speakers

WATERPROOF

2-way speakers (for an improved acoustic performance) with separate tweeter. Designed for indoor and outdoor use.
Min. distance from the compass: 1.1 m.

Code	Color	Ø A mm	Ø B mm	D mm	Power W (cp)		Frequency HZ	Ohm	Magnetism
					RMS	Peak			
29.740.01	White	160	125	57	20+20	30+30	80-20000	4.0	y25
29.740.02	White	188	144	57	25+25	40+40	95-25000	4.0	y25



OSCULATI

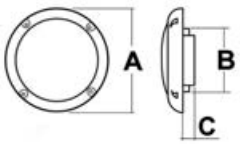
2-way loud speakers, Slim version, 23-mm depth

WATERPROOF

Two-way system (for better performance to lows and highs) with separate tweeter. For indoor and outdoor use.
Min. distance from the compass: 1 m.

Code	Colour	Ø A mm	Ø B mm	C mm	Potenza W (pair)		Frequency Hz
					Rms	Max	
29.721.99	White	150	120	23 *	40	60	60 - 18000
29.721.98	Black	150	120	23 *	40	60	60 - 18000

* *Designed for installation with little recess depth*



OSCULATI

◢29.721.99

◢29.721.98

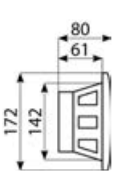
RIVIERA loud speakers

NON MAGNETIC / AMAGNETICHE

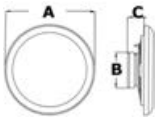
UV-resistant, with ferrite magnet.

WATERPROOF

Code	Color	Type	watt	Db	RsHz	Ohm
29.168.00	White	Double-cone	80	90	55-16000	4
29.168.20	White	Two-way	120	90	50-20000	4



SOUND MARINE™



Ultra Slim stereo speakers

IP65

Low profile, **only 25mm deep**, watertight to **IP65**. Made with new CUTTING EDGE technology to significantly reduce the cone depth while offering excellent acoustic output.
Min. distance from the compass: 1 m.

Code	Colour	Ø A mm	Ø B mm	C mm	Recess Ø mm	Power W (cp)		Response frequency Hz	Sensibility
						Rms	Max		
29.723.01	White	150	5"	25	110	15	30	80 Hz - 15 KHz	86+- 2 dB
29.723.03	White	180	6"	25	132	30	60	70 Hz - 15 KHz	89+- 2 dB

OSCULATI

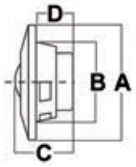
2-way non-magnetic speakers

AMAGNETICHE/ NON-MAGNETIC

WATERPROOF

Non-magnetic models (designed not to disturb instruments or compasses), two-way system (for better performance to highs and lows), fitted with separate tweeter. For indoor and outdoor uses.

Code	Colour	Ø A mm	Ø B mm	C mm	D mm	Power W (pair)		Frequency Hz	Ohm
						Rms	Max		
29.722.00	White	180	128	90	60	60	100	60 - 22000	4.0

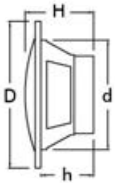


OSCULATI

◢29.747.02/04

◢29.747.01/03

◢29.747.02/04



2-way loudspeakers with programmable multicolour LED lights

WATERPROOF **UV RESISTANT** **LED RGB**

2-way loudspeakers with RGB multicolour LED lights programmable by means of the included radio remote control. 2-way loudspeakers offer better bass performance. ABS case and polypropylene diaphragm.

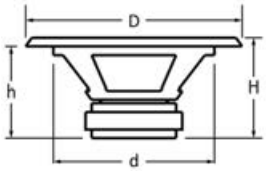
Code	Colour	Type	Power W		Response frequency Hz	Sensitivity dB	⟷ mm			
			RMS	Max			D	d	H	h
29.747.01	White	5.25"	30x2	80x2	80-20000	90	166	121	83	57
29.747.02	Black	5.25"	30x2	80x2	80-20000	90	166	121	83	57
29.747.03	White	6.5"	50x2	120x2	60-20000	91	192	138	98	65
29.747.04	Black	6.5"	50x2	120x2	60-20000	91	192	138	98	65

Subwoofer

WATERPROOF **UV RESISTANT**

With ABS casing and polypropylene cone.

Code	Colour	Type	Power W		Response frequency Hz	Sensitivity dB	Compass min distance m	⟷ mm			
			RMS	Max				D	d	H	h
29.744.01	White	8"	100	200	40 - 10000	90	1.40	245	187	122	90
29.744.02	Black	8"	100	200	40 - 10000	90	1.40	245	187	122	90
29.744.05	White	10"	250	500	30 - 10000	92	1.40	268	229	182	142



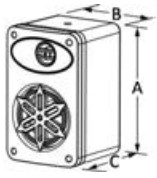
◢ 29.744.01/02

◢ 29.744.05

Two-way loudspeakers for interiors

Recessless adjustable bracket mounting.

Code	Colour	Type	Power W		Response frequency Hz	Sensitivity dB	⟷ mm AxBxC
			RMS	Max			
29.746.01	White	3"	40x2	80x2	100-20000	90	149x96x95
29.746.02	Black	3"	40x2	80x2	100-20000	90	149x96x95
29.746.03	White	4"	60x2	120x2	80-20000	90	206x140x120
29.746.04	Black	4"	60x2	120x2	80-20000	90	206x140x120



◢ 29.746.02/04

◢ 29.746.01/03

CABINET Range - 2-Way Stereo Speaker for external/internal mounting

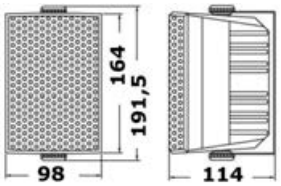
LOW MAGNETIC

WATERPROOF IP65

Low magnetic impedence (to prevent compass/instrument interference), 2-Way coaxial with high acoustic quality.
Supplied with stainless steel coated adjustable bracket

Code	Color	Power (cp)		Frequency Hz	Efficiency
		RMS	Peak		
29.730.01	White	30+30	60+60	75-20000	90 ± 2 dB 1watt/1m
29.730.11	Black	20+20	40+40	75-20000	90 ± 2 dB 1watt/1m

Bluetooth compatible (with amplifier 29.749.0x)



◢ 29.730.01

◢ 29.730.01

◢ 29.730.11

Marine loudspeakers/amplifiers, for external use

Water-proof, rust-proof, fitted with **ABS** body.

Code	Power	Ohm	Ø mm	Depth mm	g
29.003.00	10 Watt 110 dB	8	138	135	450
29.003.02	30 Watt 120 dB	8/16	200x120x235	-	1200

◢ 29.003.02

◢ 29.003.00

▶ GLOMEX digital terrestrial TV antennas (omnidirectional and directional)

White antenna	Black antenna	Model	Ø mm	Height mm	Base Ø mm	g	Angle of reception	Impedance	DAB	Frequency range	Average gain	Current draw	Power supply	Gain adjustment	TV set max	Termination
29.926.20	**29.926.21**	Talitha V9125AGCU/ DAB20	250	120	25	350	360°	75 Ω	Yes	87,5/774 MHz	23 dB	180mA	12-24 Vdc	automatic	2	25-mm female
29.925.20	-	Nashira V9112AGCU/ DAB20	370	495	25	975	360°	75 Ω	Yes	87,5/774 MHz	24 dB	180mA	12-24 Vdc	automatic	2	25-mm female
29.924.01	**29.924.02**	Avior VT300	100	210	25	250	360°	75 Ω	No	40/890 MHz	21 dB	20 mA	12 Vdc	no	1	25-mm female
29.926.50	-	Altair V9126AGCU	250	300	25	430	360°	75 Ω	Yes	87,5/774 MHz	24 dB	180mA	12-24 Vdc	automatic	2	25-mm female

◢ 29.926.20

◢ 29.926.21

◢ 29.925.20

◢ 29.924.01

◢ 29.924.02

◢ 29.926.50

DVB T2 FULL HD

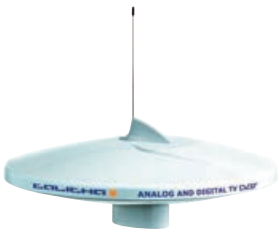
BALLADE Supergain digital TV antenna

DBVT/TNT/HDTV TV omnidirectional antenna.
Technical data:
* 75 Ω impedance
* 170/890 mHz frequency
* 23.5 dB gain
* 20 mA power consumption
* Radome
* Horizontal polarization.

Code	V	⟷ mm	g
29.924.03	12	Ø 70 x 165 h	110

DVB T2 FULL HD

GLOMEX Talitha AGC/DAB/AM-FM TV antenna


◢ 29.926.20

◢ 29.926.21

DAB

Digital terrestrial TV antenna fitted with automatic gain control amplifier (AGC Automatic Gain Control), which amplifies the signal gain when necessary, and built-in LTE filter. Dual TV output, but if matched with an optional splitter, it connects an additional TV set on board or a TV set and an AM-FM radio receiver.

Code	Colour	Type	V	Ø mm	Height mm	g	Coaxial cable included m
29.926.20	White	AGC DAB	12/24	250	426	405	20
29.926.21 New	Black	AGC DAB	12/24	250	426	405	20

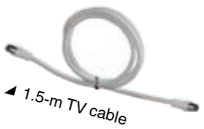
◢ 1.5-m TV cable

◢ 20-m coaxial cable

◢ Automatic gain control

DVB T2 FULL HD

GLOMEX Nashira AGC/DAB/AM-FM TV antenna


◢ 1.5-m TV cable

◢ 20-m coaxial cable

DAB

Digital terrestrial TV antenna fitted with automatic gain control amplifier (AGC Automatic Gain Control), which amplifies the signal gain when necessary, and built-in LTE filter. Dual TV output, but if matched with an optional splitter, it connects an additional TV set on board via ether or a TV set and an AM-FM radio receiver. The new DAB models stand out for their innovative automatic gain control amplifier and the 'shark fin' for receiving DAB frequencies (last generation Digital audio Broadcasting). 12/24 V power, 370-mm Ø, 185-mm height, 900-g weight. It includes a 20-m cable and a 1.5-m cable to connect the AGC amplifier to the TV set.

Code	Type	V	Ø mm	Height mm	g	Coaxial cable included m
29.925.20	AGC DAB	12/24	370	495	975	20

◢ Automatic gain control

GLOMEX Avior TV/AM-FM antenna

Code	Colour	Type	V	Ø mm	Height mm	g	Coaxial cable included m
29.924.01	White	VT300	12	100	210	250	10
29.924.02 New	Black	VT300	12	100	210	250	10

◢ 1.5-m TV cable

◢ 10-m coaxial cable

◢ 29.924.01

◢ 29.924.02

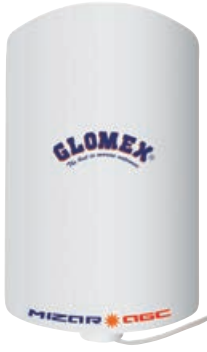
DVB-T2 Mizar AGC omnidirectional TV antenna

Design similar to weBBoat Lite.
Technical data:
- 75 Ω impedance.
- 87.5/774 mHz frequency.
- 20 dB (automatic) gain.
- 60 mA power consumption.
- Max 2 pairing TVs.
- 360° reception angle.
- 1"x14 base thread (any base plate on our catalogue will match).

Code	V	⟷ mm	g
29.924.04	12/24	Ø 140 x 200 h	500

29.142.00 *AGC - Automatic Gain Control*

29.143.00 *"Gold Platea" female connector (2 pcs)*



◢ 29.924.04

◢ 29.142.00

◢ 29.143.00

GLOMEX Altair AGC TV antenna

This antenna supplies an excellent signal both in horizontal or vertical polarization thanks to the container antenna that allowed to mount the vertical element inside. Fitted with gain automatic adjustment amplifier and 12/24 V power unit. 20-meter coaxial cable. Input for 2 TVs, via ether, cable or video/recorder. Fixing base included.

Code	V	Ø mm	Height mm	g	Coaxial cable included m
29.926.50	12/24	250	300	430	20

◢ 1.5-m TV cable

◢ 20-m coaxial cable

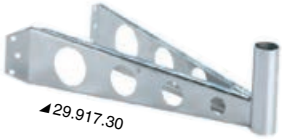
◢ Automatic gain control

Accessories for TV antennas

Code	Description	Bore Ø mm	⟷ mm	For antennas	
				Glomex	Osculati
29.927.01	Stainless steel base for flat mounting	25	126	Nashira	29.925.20
29.927.00	Stainless steel base for flat mounting	25	150	Avior Nashira Talitha	29.924.01 29.925.20
29.917.30	Stainless steel masthead base	25	-	Nashira	29.925.20
29.912.30	Stainless steel masthead base	25	-	Talitha Avior	29.926.20 29.924.01
29.925.05	2-way splitter	-	-	Talitha Nashira	29.926.20 29.925.20
29.925.06	AM/FM radio cable (F male connector to Motorola socket)	-	3600	-	-

◢ 29.927.00

◢ 29.927.01



◢ 29.917.30

◢ 29.912.30

◢ 29.925.05

◢ 29.925.06

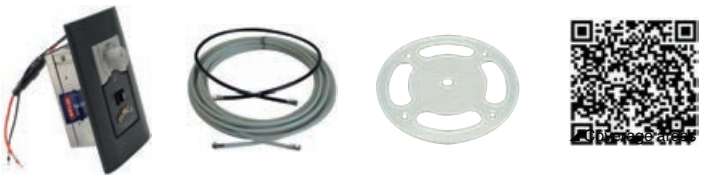
► GLOMEX satellite TV antennas

Code	Model	Antenna dish diameter	Radome dimensions	kg	Tracking rate	Average gain	Dish type	Frequency range	Current draw	Full elevation range	Type of stabilization	Min eirp	Control unit
29.923.42	Rhea NEO V8100N	470	500x560	8	50°/sec	35	prime focus + HPD	10.7 - 12.75 GHz LNB universal	12-24 Vdc (1.5 Ah)	0° - 90 °	gyro on 2 axes + 3rd axis	49 dBW	3 satellites + endless list
29.923.52	Saturn 4 NEO V9104N	470	500x560	13	50°/sec	35 dB	prime focus + HPD	10.7 - 12.75 GHz LNB universal	12-24 Vdc (2.5 Ah)	5° - 90 °	gyro on 2 axes + 3rd axis	49 dBW	3 satellites + endless list
29.923.62	Mars 4 Skew NEO V9804NSKEW	600	660x660	15.5	50°/sec	36.5 dB	prime focus + HPD	10.7 - 12.75 GHz LNB universal	12-24 Vdc (3 Ah)	5° - 90 °	gyro on 2 axes + 3rd axis	47 dBW	3 satellites + endless list

DVB S2 FULL HD

GLOMEX Rhea NEO satellite TV antenna

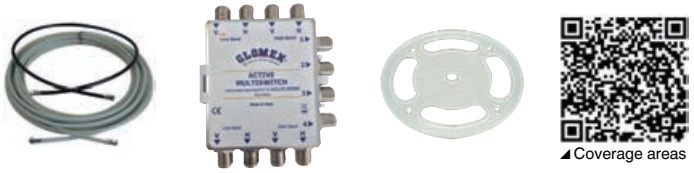
29.923.42 Rhea NEO is the new FULL-HD/4K wireless-operated satellite TV antenna with 47-cm dish diameter.
As all Glomex NEO antennas, Rhea features refurbished new-generation technology and mechanic elements for a very fast satellite reception even in heavy seas: more powerful processor, faster driver and sturdier frame. The new electronic parts have been designed to ensure very silent operation both during satellite search and tracking.
The new NEO satellite TV antennas have a standard GPS sensor and antenna for storage of previous navigation routes and high performance signal reception even at the borders of the coverage areas.
Rhea NEO is operated by the free Glomex SAT TV App compatible with iOS and Android devices. Download the App and connect via Bluetooth® to the NEO sat antenna and a single click will allow you to:
- Update the antenna satellite list.
- Select and switch satellites.
- Update the antenna software.
- Share your antenna operation parameters with the customer service in case of need.



DVB S2 FULL HD

GLOMEX Saturn 4 NEO satellite TV antenna

29.923.52 Saturn 4 NEO is the new FULL-HD/4K wireless-operated satellite TV antenna with 47-cm dish diameter for max 16 outputs at a time.
As all Glomex NEO antennas, Saturn 4 features refurbished new-generation technology and mechanic elements for a very fast satellite reception even in heavy seas: more powerful processor, faster driver and sturdier frame. The new electronic parts have been designed to ensure very silent operation both during satellite search and tracking.
The new NEO satellite TV antennas have a standard GPS sensor and antenna for storage of previous navigation routes and high performance signal reception even at the borders of the coverage areas.
The wide range of NEO satellite TV antennas includes all LNB versions (universal, multiband, dCSS/SCR) in order to meet all pleasure boaters' needs.
Saturn 4 NEO is operated by the free Glomex SAT TV App compatible with iOS and Android devices. Download the App and connect via Bluetooth® to the NEO sat antenna and a single click will allow you to:
- Update the antenna satellite list.
- Select and switch satellites.
- Update the antenna software.
- Share your antenna operation parameters with the customer service in case of need.



GLOMEX Mars 4 Skew NEO satellite TV antenna

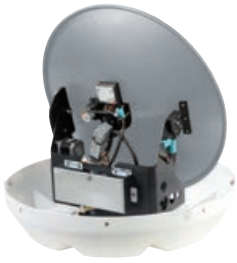
29.923.62 Mars 4 Skew NEO in the new FULL-HD/4K TV wireless-operated satellite antenna with automatic SKEW, 60-cm dish, for max 16 outputs at a time.

As all Glomex NEO antennas, Mars 4 Skew features refurbished new-generation technology and mechanic elements for a very fast satellite reception even in heavy seas: more powerful processor, faster driver and sturdier frame. The new electronic parts have been designed to ensure very silent operation both during satellite search and tracking.

The new NEO satellite TV antennas have a standard GPS sensor and antenna for storage of previous navigation routes and high performance signal reception even at the borders of the coverage areas.

Mars 4 Skew NEO is operated by the free Glomex SAT TV App compatible with iOS and Android devices. Download the App and connect via Bluetooth® to the NEO sat antenna and a single click will allow you to:
· Update the antenna software.
· Update the antenna satellite list.
· Select and switch satellites.
· Share your antenna operation parameters with the customer service in case of need.

◢ Coverage areas



GLOMEX spare radome

To be combined with existing antennas for better design or as new cover.

Code	⟷ mm	For antennas	
		Glomex	Osculati
29.923.90	500x560	Rhea	**29.923.41**
29.923.91	660x660	Mars	**29.923.61**
29.923.92	500x560	Saturn	**29.923.51**

Tilting stainless steel support for GLOMEX TV antennas

29.923.95 Electro-polished stainless steel support for satellite and directional TV antennas.
For perfectly vertical position of the antenna when the mounting surface isn't perfectly horizontal.
0 to 5° tilting ray. It comes with 2 rubber gaskets.

Satellite coverage areas of each GLOMEX antenna

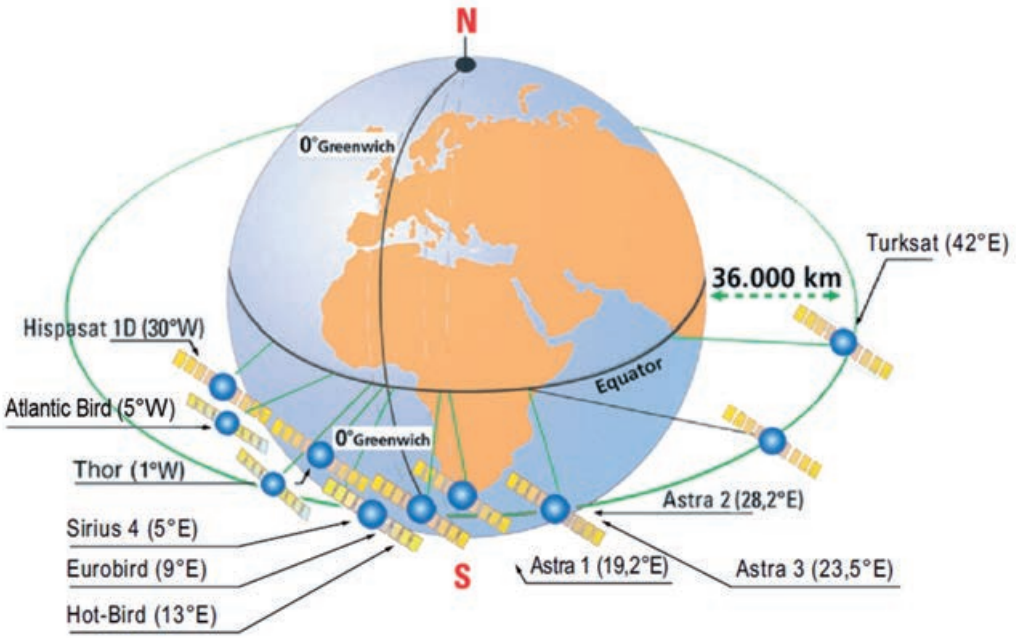
The performance of satellite antennas depends on the weather conditions, on the navigation area and on the dimensions of the antenna itself (the size of the satellite dish shall be suitable to receive the signal in the areas chosen).

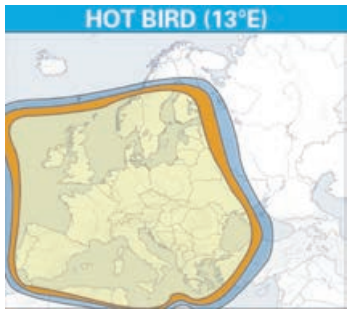
Code	Model
29.923.42	Rhea
29.923.52	Saturn
29.923.62	Mars

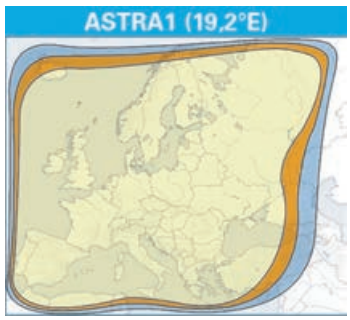
60 cm (24") DISH MARS

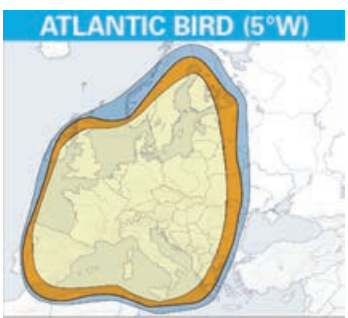
47 cm (18") DISH SATURN/RHEA

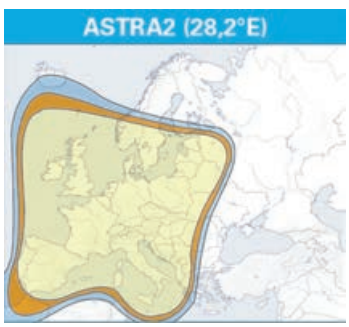
Satellite dish not available.

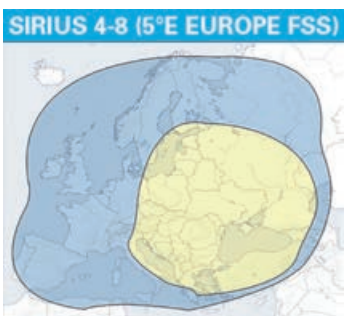


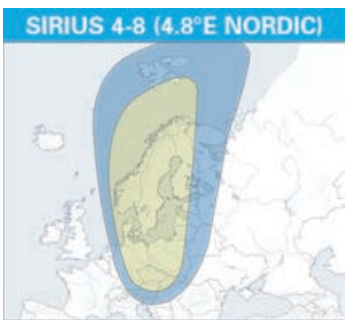


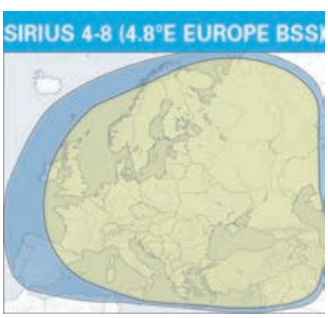


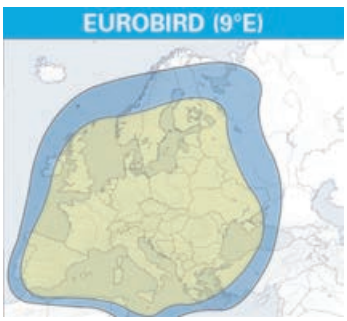


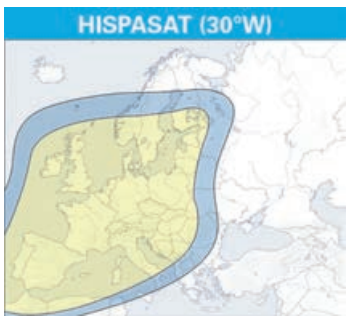


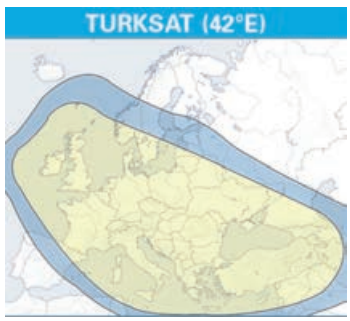












► AM/FM antennas

Free cable FM/AM antenna

29.128.15 L'MRANT10 dual-pole minimal antenna is enough to correctly receive the radio waves. 75-ohm impedance.

SCOUT AM/FM antenna, 90 cm

29.719.00 90-cm length. 88/108 mHz frequency. 75-ohm impedance. Equipped with 4-m cable.

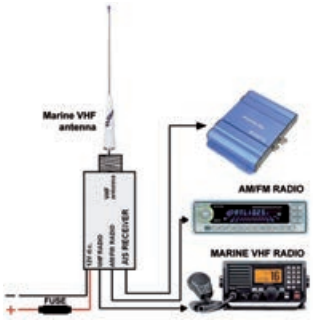
GLOMEX AM/FM compact antenna

29.128.10 Impedance 93 Ω, extremely compact (length 30 cm) designed for standard hull antenna, made ready for radio systems, fitted with base and 3-meter cable, anti UV nylon, very low cost.

GLOMEX AM/FM Antenna 240 cm

29.128.80 Impedance 93 Ω, very high quality, length 240 cm, designed to be used with standard VHF antennas with standard size of 2.40 meters; uses all standard plastic bases, made of chromed brass stainless steel, fitted with thread size 1"x14 and 6 meter cable.

Splitter RA201 radio - GLOMEX



29.448.00 It receives AM/FM broadcast (identifying floating signal) through the VHF antenna.

GLOMEX AM/FM antenna, 150 cm

29.128.06 150-cm length. Fit with 6-m cable and MOTOROLA plug. 88/108-mHz frequency. Same look as VHF antenna 29.996.05 and CB 29.920.00.

SCOUT AM/FM flexible antenna

Made of UV-resistant vynil, it is very flexible and can be removed from its base. Watertight base. The antenna is supplied with 4-m cable + jack.

Code	Description	Length cm
29.128.11	AM-FM antenna	25

► VHF antennas and CB

GLOMEX VHF RA121 antenna

29.996.07 Low profile VHF antenna, same look as TV antenna 29.924.01. Equipped with 9-m cable RG58CU + connector PL259 + mounting base. 1dB gain, 50-watt max input power. Vertical polarization.

GLOMEX VHF RA124 antenna

29.996.08 VHF antenna similar to TV antenna 29.926.50. Fitted with RG58 9-m cable + PL259 connector + mounting base. 1-dB gain, 50W max input power. Vertical polarization.

Wind vane indicator

29.106.04 Made of **plastic**, fitted with bowline sectors, for fitting over antenna model 29.106.00

GLOMEX RA106/109 SB KIT antenna for VHF

29.106.00 Made of tapered **stainless steel**, length 90 cm, **universal** model for sail boats or motor boats; supplied with joint kit for standard joint bases, fitted with bracket for mast head mounting + watertight fairlead model 29.140.00 + connector protectors 29.138.00. Thanks to a special system the RG-58 cable does not need to be welded, but instead it is fitted quite easily; 3 db gain, weight 180 grams. **Supplied without cable**.

VHF SCOUT KM-4 Windex ready 1.0 m antenna

WINDEX READY

SCOUT

29.312.00 VHF antenna: length 1m, frequency 156-162 MHz, power 50W, gain 3dB. Fiberglass monopole, chromed brass tip designed to install Windex 15 (35.388.02 not included). It allows more room on the mast head because the VHF antenna and the Windex are installed on the same spot. It comes with a 3-mm thick stainless steel bracket and N-type female connector.

GLOMEX mini antenna for VHF/AIS. 14-cm length RA 111

29.106.30 1-db gain. Recommended for racing boats. It includes 18-m cable and bracket.

GLOMEX VHF antenna. treaded at the base RA 106

29.106.20 Space-saving antenna solution in case of berthing or stowage of the vessel. 90-cm length, 3-db gain, nylon articulated base 29.135.00, 4.5-m cable, PL259 final connector, failead 29.140.00, connector protector 29.138.00.

GLOMEX - RA 1206 VHF antenna

29.996.00 Made of **white fibreglass**, suitable for VHF radio-telephones, 2.40-m long, it comes with a 4.5-m RG-58 coaxial cable and chromed-brass connector. 6-dB gain. 100W maximum input power. Model designed for motor boats. **Chromed-brass** metal parts. **It is supplied without base**.

GLOMEX Glomeasy Line super-compact VHF antenna

Minimal and inconspicuous look.

White	Black	Length mm	dB	Max input power V
29.994.01	**29.994.02**	250	3	50

29.990.16 *3-bore thread base plate*
29.990.20 *RA 352 connector to be screwed on cables 29.800.10/1/12/13/14 for plug connection to PL259 HVF Radio.*
29.990.25 *5/8"x24 connector to be screwed on antennas 29.990.01/02/03 for compatibility with standard 1"/14 thread antenna base plates*
29.800.10 *RG8X 3-m cables*
29.800.11 *RG8X 6-m cables*
29.800.12 *RG8X 12-m cables*
29.800.13 *RG8X 18-m cables*
29.800.14 *RG8X 25-m cables*
29.138.00 *Watertight connector cover*
29.140.00 *Nylon deck fairlead*

GLOMEX RA1225HP VHF Antenna

29.995.60 2.40-mt long antenna for VHF. Made of white coated fiberglass, it includes an RG8X 6-mt cable and RA352 preassembled connector. 6-db gain, 100W max power . Stainless steel metal parts. Compatible with any Glomex base plate.

GLOMEX fibreglass antenna for CB devices

29.920.00 It includes 4.5-m coaxial of cable. 150-cm long. Standard threads fitting all bases from our catalogue.

GLOMEX VHF RA104 antenna

29.996.03 For small/medium boats, fitted with foldable stainless steel base. Made of double-layer glass fiber and 5 coats of polyurethane paint. 3dB gain, max 100 watt input power, 4.5 meters of coaxial RG58 cable. 100-cm length.

GLOMEX RA 400 VHF antenna

Made of **fibreglass**, designed for VHF radio telephones, 1.5-m long. 3-db gain, 100W max. applicable power. **Supplied without base**.

Code	RG 58 4.5-m coaxial cable	Connector to be welded	Suitable for	Colour
29.996.05	INCLUDED	29.903.10	Motorboats	white
29.996.06	INCLUDED	29.903.10	Motorboats	black

GLOMEX RA 1201 VHF antenna

VHF antenna featuring an innovative design where the built-in bushing perfectly matches the boat look. Fitted with flag holder at the end. 2.4-m long. 6-db gain, 100W max. applicable power. Fitted with RG58 6-m cable. Recommended base 29.133.00.

Code	Colour
29.996.21	White

► SUPERGAIN antenna by Glomex

SUPERGAIN VHF antenna by Glomex Target/Task

Technical data: 3 db gain.
Max input power: 50 watt.

Code	Length mm	Base INCLUDED	Cable m	Colour	Suitable for
29.985.01	530	Articulated	6	Black	Motor boats
29.985.02	530	Bulkhead-mounted	8	Black	Motor boats and central control dinghies

SUPERGAIN VHF antenna by Glomex Black Swan

Technical data: 3 db gain.
Max input power: 50 watt.

Code	Length mm	Base INCLUDED	Cable m	Wind indicator	Colour
29.985.05	850	Right angle	20	Included	Black

SUPERGAIN VHF antenna by Glomex Elba

Technical data: 3 db gain.
Max input power: 50 watt.

Code	Length mm	Base INCLUDED	Cable m	Colour	Suitable for
29.985.06	970	Bulkhead-mounted	20	Black	Sailing boats

SUPERGAIN VHF antenna by Glomex Capri

Technical data: 3 db gain.
Input max power: 50 watt.

Code	Length mm	Base INCLUDED	Cable m	Colour	Suitable for
29.985.08	1400	Articulated	6	White	Motor boats and commercial vessels

SUPERGAIN VHF antenna by Glomex Portofino

Technical data: 6 db gain.
Input max power: 50 watt.

Code	Length mm	Base INCLUDED	Cable m	Colour	Suitable for
29.985.10	2300	Articulated	6	White	Motor boats and commercial vessels

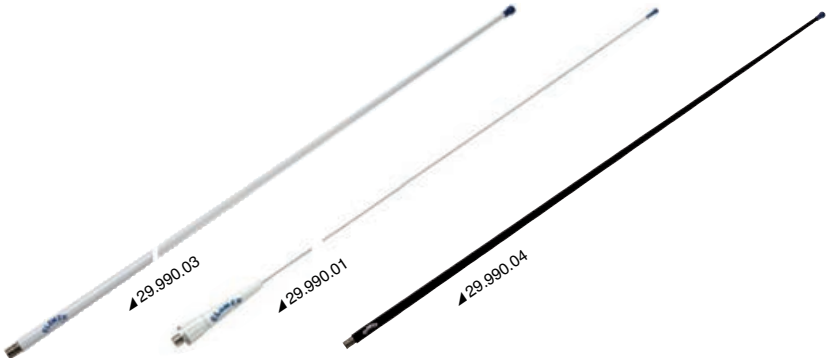
► Glomeasy Line antennas for fast installation

Fast installation system. All Glomeasy VHF/FM/AIS/DAB marina antennas are pre-terminated with a special FME connector for an extremely easy and fast installation. Glomeasy coaxial cables are offered in various lengths pre-terminated with a miniaturized FME connector for installation no matter where without the need to cut or weld the cables.

GLOMEX Glomeasy Line VHF antenna

It can be mounted very easily by connecting the already plugged cables to the male connector. The Glomeasy system, featuring only 3 types of antenna and their accessories, meets all the needs of pleasure boaters and sailers.

Code	Colour	Model	Length m	db	Recommended for
29.990.01	White	stainless steel	0.90	3	sail
29.990.02	White	fiberglass	0.90	3	sail/motor
29.990.03	White	fiberglass	1.20	3	sail/motor
29.990.04 New	Black	fiberglass	1.20	3	sail/motor



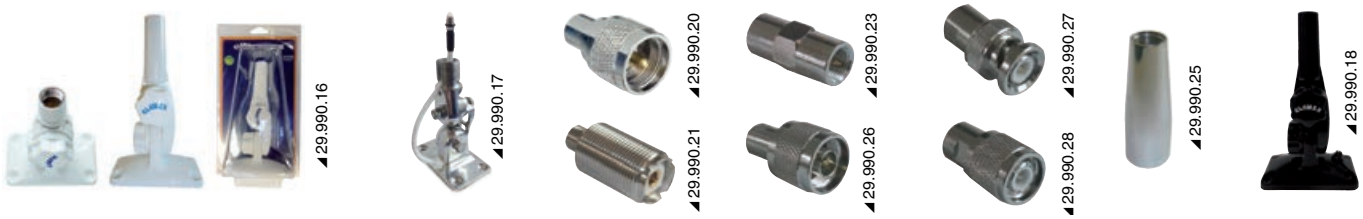
GLOMEX Glomeasy Line AM/FM-DAB-AIS antenna

Very easy installation by means of the FME connector that matches the pre-assembled cables.

Code	Use	Model	Length m	DB	Impedance ohm	Recommended for
29.128.04	AM/FM	Fiberglass	1.2	-	93	Sailing/motor boats
29.128.03	DAB	Fiberglass	1.2	-	50	Sailing/motor boats
29.128.02	AIS	Fiberglass	1.2	6	50	Sailing/motor boats

GLOMEX Glomeasy Line antenna accessories

Code	Description
29.990.10	1.2-m extension cable (RA 303) for 29.990.03, 29.128.04, 29.128.03 e 29.128.02
29.990.15	Stainless steel arm for mast head
29.990.16	Nylon white articulated base with built-in fairlead
29.990.18 New	Nylon black articulated base with built-in fairlead
29.990.17	AISI316 stainless steel articulated base with built-in fairlead
29.990.20	RA 352 connector to screw on cables 29.800.10/1/12/13/14 for snap connection to PL259 VHF Radio
29.990.21	FME/UHF RA 351 terminal to connect Glomeasy antennas
29.990.23	RA 357 double male fitting to connect 2xRG8X cables
29.990.25	5/8"x24 itting to plug to antennas 29.990.01/02/03 for compatibility with standard antenna base, 1"/14 thread
29.990.26	Male FME/male N Glomex RA354 adaptor
29.990.27	Male FME/male BNC Glomex RA355 adaptor
29.990.28	Male FME/male TNC Glomex RA356 adaptor



RG8X cables for GLOMEX Glomeasy Line VHF antennas

RG8X low-attenuation cables terminated with female FME connectors for antennas 29.990.01/02/03 and terminal 29.990.20.

Code	Length m
29.800.10	3
29.800.11	6
29.800.12	12
29.800.13	18
29.800.14	24

RG62 cable for Glomeasy Line AM/FM antennas

Equipped with pre-fit FME connector on one side and Motorola plug on the other

Code	Length m
29.799.06	6
29.799.18	18
29.799.25	25

► Base plates and accessories for VHF antennas and radars

Double swivelling base for radio antennas

AISI 316

29.899.00 Made of **stainless steel**; quick locking system, universal screw thread; base size 65x92mm, suitable for VHF/GPS antennas.

Swivelling base

AISI 316

Made of mirror polished **AISI 316 stainless steel**, designed for mounting on GPS and VHF pipes.

Code	For pipe size mm
29.930.20	22/25
29.930.21	28/38

Swivelling base for VHF antenna and GPS

29.897.99 Made of white nylon with blocking knob.

GLOMEX base with built-in fairlead

29.135.00 Made of reinforced nylon with articulated joint, suitable for VHF/GPS antennas.

GLOMEX base with built-in fairlead recommended for RA1201

29.133.00 Made of UV-resistant reinforced nylon with articulated joint and lever lock for pulpit or deck. Hole for coaxial cable and GPS cord. It can also be used with self-bearing antennas not exceeding 2.70 metres in length. Standard 1"x14 thread.

GLOMEX articulated base for pulpit

29.134.00 Made of nylon, fitted with knob locking, designed for handrail pipe mounting Ø 22/25 mm; universal for VHF/GPS antennas.

GLOMEX articulated and raised base for pulpit

29.147.00 Made of nylon, fitted with knob locking, designed for handrail pipe mounting Ø 22/25 mm; universal for VHF/GPS antennas, 100 mm extension cord already mounted to raise the antenna.

GLOMEX lever-operated articulated base

29.898.01 Made of **nylon**, fitted with cam locking, designed for mounting on **handrail pipes, universal** for Loran, VHF and GPS, for pipes with Ø of 22/25 mm.

GLOMEX fixed base

29.175.00 1"x14 reinforced nylon fixed base for GPS antennas.

GLOMEX fixed nylon base for pulpit

29.145.00 Made of nylon, designed for mounting on pipe size 22/25 mm, for GPS antennas.

Base

29.146.00 Made of **reinforced nylon**, designed for VHF-GPS antennas. 1" thread.

Knuckle base for VHD antenna: Loran and GPS

29.898.00 Made of **white nylon**, fitted with eccentric ground rack locking system.

GPS/UHF antenna base with lever for pulpit

29.540.41 Universal screw thread; made of white nylon, fits pipes with Ø size 25 mm.

Support bases for GPS/VHF antennas

AISI 316

29.862.35 **AISI 316 stainless steel** casting, mirror polished finish, high quality. 102 mm high, 73-mm Ø base, standard thread.

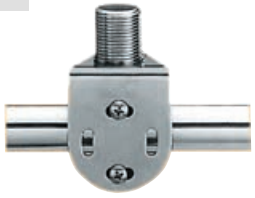
Support

AISI 316

29.862.34 Made of **AISI 316 stainless steel**, fitted with standard thread for GPS/VHF antennas. Fits pipes with Ø 25 mm, with the use of a tee (see models 41.115.25/ 41.112.25 or similar) and a stainless steel pipe size 25 mm, the antenna can be extended as required.

GPS/VHF fixed antenna support for pulpit

AISI 316



29.862.33 Standard thread for application on pipe size 22/25 mm, made of **stainless steel**.

Base

AISI 304

◢ 29.917.40

◢ 29.917.41

Made of **stainless steel**, designed to raise **GPS/ VHF/TV/AM-FM** antennas available in our catalogue. Standard 1"x14 thread.

Code	Height mm
29.917.40	98
29.917.41	106

GLOMEX/SCOUT extension pole

Code	Description
29.129.00	60-cm **enamelled** version with nylon fittings to raise GPS antennas (GLOMEX)
29.996.01	1.53-m version for antenna models 29.996.00; 29.996.05; 29.995.60 (SCOUT)

Base for V9176 masthead GLOMEX

29.862.38 Electropolished stainless steel, 200 mm high. 1" x 1/4 antenna universal thread.

Base for V9181 pulpit GLOMEX

29.862.36 Electropolished stainless steel for 22/30 mm hoses.

Base for V9171 antennas GLOMEX

29.862.40 Electropolished stainless steel for 22/80 mm hoses. 1" x 1/4 antenna universal thread.

Accessories for antennas

Code	Description
29.903.10	Antenna VHF plug for radio connection. Fitted with reducing coupling for cable RG-58. Suitable for cable RG-58 (standard thin cable) or for cable RG-213 (thick cable)
29.903.50	Double female connection
29.903.60	Double male connection

◢ 29.903.60

◢ 29.903.50

◢ 29.903.10

Cable "RG-58/152"

29.800.01 Cable "RG-58/152", low attenuation with aluminum coating. Specially suitable for long paths as for example VHF antennas in mast heads onto sail boats, 100 meter coils.

5-cm deck fairlead in golden colour

29.105.00 Stainless steel coaxial cable fitted with outer PVC cap, PL-259 golden connector, 2 x gold-plated nuts and chromed flange.

Watertight connector protectors

Code	For connections type
29.138.00	29.903.10; 29.903.50; 29.903.60

► Fishfinder Echo GARMIN

GARMIN

GARMIN Striker™ fishfinders

The new Striker Vivid fishfinders have an outstandingly vivid colour display to see fish and structure under and around your boat in maximum contrast and clarity. These fishfinders use traditional CHIRP, CHIRP ClearVü™ and SideVü™ technology. All displays offer: GPS receiver to plan and create routes; Quickdraw Contours function for more demanding fishers to store maps with 30-cm contours; Wi-Fi® ™ mobile connectivity for 7" and 9" version by downloading the ActiveCaptain app.

Code	Garmin code	Model	Colour display	Built-in GPS	Depthsounder power W	CHIRP		Stern transducer included	⟷ cm
						ClearVü	SideVü		
29.033.01	010-01870-01	STRIKER™ Plus 4	4.3"	Yes	200	No	No	Dual Beam (77/200 kHz)	9.8x17.4x4.5
29.033.04	010-02550-01	STRIKER™ Vivid 4cv	4.3"	Yes	300	Yes	No	GT20-TM CHIRP (77/200 kHz and CHIRP ClearVü 455/800 kHz)	9.7x17.4x4.5
29.033.07	010-02551-01	STRIKER Vivid 5cv	5"	Yes	500	Yes	No	GT20-TM CHIRP (77/200 kHz and CHIRP ClearVü 455/800 kHz)	18.8x11.4x6.6
29.033.09	010-02552-01	STRIKER Vivid 7cv	7"	Yes	500	Yes	No	GT20-TM CHIRP (77/200 kHz and CHIRP ClearVü 455/800 kHz)	23.6x13.9x5.8
29.033.11	010-02553-02	STRIKER Vivid 7sv	7"	Yes	500	Yes	Yes	No	23.6x13.9x5.8
29.033.13	010-02553-01	STRIKER Vivid 7sv	7"	Yes	500	Yes	Yes	GT52-TM High-Wide CHIRP (150-240 kHz and CHIRP ClearVü/SideVü 455/800 kHz)	23.6x13.9x5.8
29.033.16	010-02554-01	STRIKER Vivid 9sv	9"	Yes	500	Yes	Yes	GT52-TM High-Wide CHIRP (150-240 kHz and CHIRP ClearVü/SideVü 455/800 kHz)	28.8x16.4x8.5

◢ 29.033.01/04

◢ 29.033.07

◢ 29.033.08

◢ 29.033.11/13

◢ 29.033.16

► GARMIN EchoMAP™

GARMIN

GARMIN echoMAP™ chartplotter

Available in a range of 4-, 6-, 7- and 9-inch bright colour display, they feature Ultra High-Definition, CHIRP traditional, CHIRP ClearVü™ and CHIRP SideVü™ sonar technology, built-in GPS and built-in Wi-Fi® connectivity for access to ActiveCaptain™, the free app that optimizes the Garmin Marine onboard instruments.

ECHOMAP™ Plus UHD 6'' has an integrated ergonomic keypad while the 7" and 9" versions have keyed-assist touchscreen. All ECHOMAP™ Plus UHD chartplotters support NMEA® 2000 / 0183 and the 7" and 9" versions also support the Panoptix LiveScope ™ system and the new Force™ electric motor management.

Code	Garmin code	Model	Colour display	Depthsounder W	CHIRP		Panoptix ™ compatibility	Stern transducer included	⟷ cm
					ClearVü	SideVü			
29.043.02	010-01884-01	ECHOMAP Plus 42cv	4.3"	500	Yes	No	No	GT20-TM CHIRP (77/200 kHz e CHIRP ClearVü 455/800 kHz)	10.2x20.3x7.9
29.053.04	010-02329-01	ECHOMAP UHD 62cv	6"	500	Yes	No	No	GT24 High Wide 150-240 kHz -UHD 800 kHz (350 W)	21.8x13x6.2
29.053.06	010-02333-01	ECHOMAP UHD 72cv	7"	500	Yes	No	Yes	GT24 High Wide 150-240 kHz -UHD 800 kHz (350 W)	25x13.9x5.1
29.053.07	010-02337-00	ECHOMAP UHD 72sv	7"	500	Yes	Yes	Yes	-	25x13.9x5.1
29.053.09	010-02518-01	ECHOMAP UHD 72sv	7"	500	Yes	Yes	Yes	GT54 High Wide 150-240 kHz -UHD 800 kHz - SideVü 455 kHz -UHD SideVü 1.2 MHz (350 W)	25x13.9x5.1
29.053.10	010-02341-00	ECHOMAP UHD 92sv	9"	500	Yes	Yes	Yes	-	28.2x16.4x6
29.053.13	010-02522-01	ECHOMAP UHD 92sv	9"	500	Yes	Yes	Yes	GT54 High Wide 150-240 kHz -UHD 800 kHz - SideVü 455 kHz -UHD SideVü 1.2 MHz (350 W)	28.2x16.4x6

◢ 29.043.02

◢ 29.053.04

◢ 29.053.06

◢ 29.053.07/09

◢ 29.053.10/13

GARMIN echoMAP™ Ultra chartplotter

The new ECHOMAP™ ULTRA 10" and 12" units offer best-in-market sonar capabilities. They include all-in-one 600W transducer for CHIRP traditional and ClearVü/SideVü scanning sonars without installing additional sonar modules. The new display supports any traditional transducer (CHIRP, all-in-one, UHD and Panoptix). Both models have 10Hz GPS/GLONASS antenna with dual slot for SD card, convenient and user-friendly interface with integrated keypad for easy access to favourite functions. Compatible with the new BlueChart® g3 and BlueChart g3 Vision optional charts both with integrated Navionics data to offer the best charts ever.

Code	Garmin code	Model	Display	CHIRP		Transducer included	⟷ cm
				ClearVü	SideVü		
29.045.01	010-02111-00	ECHOMAP Ultra 102sv	10"	Yes	Yes	No	29.5x19.5x9.8
29.045.03	010-02526-01	ECHOMAP Ultra 102sv	10"	Yes	Yes	GT56UHD-TM CHIRP: High Wide 150-240 kHz (350 W), ClearVü/SideVü: 455/800/1.000 kHz (500 W)	29.5x19.5x9.8
29.045.05	010-02113-00	ECHOMAP Ultra 122sv	12"	Yes	Yes	No	34.1x22.9x9.8
29.045.07	010-02528-01	ECHOMAP Ultra 122sv	12"	Yes	Yes	GT56UHD-TM CHIRP: High Wide 150-240 kHz (350 W), ClearVü/SideVü: 455/800/1.000 kHz (500 W)	34.1x22.9x9.8

All-in-one transducers for echoMAP Plus

All-in-one transducers with traditional sonar functions. ClearVu/ SideVu.

Code	GARMIN code	Model	ClearVu/SideVu frequency	Clear / Side power	Traditional frequency	Power
29.041.70	010-01964-00	GT41-TM for stern	260 kHz	500W	50/200 kHz	600W
29.041.72	010-01964-11	GT41-THP pair of thru-hull transducers	260 kHz	500W	50/200 kHz	600W
29.041.73	010-01966-00	GT51M-TM for stern	245/465 kHz	500W	80/160 kHz	600 W
29.041.74	010-01960-00	GT20 for stern 4 pins	455/800 kHz	500W	77/200 kHz	500 W
29.041.75	010-01960-01	GT20 for stern 8 pins	455/800 kHz	500W	77/200 kHz	500 W
29.041.76	010-12405-00	GT52 for stern	455/800 kHz	500W	150/240 kHz	250 W
29.041.77	010-12909-00	GT54UHD-TM for stern	455/800 kHz	500W	150/240 kHz	500 W
29.041.78	010-13072-00	GT36UHD-TM for stern	455/800 kHz	500W	150/240 kHz	350 W

► GARMIN GPSMAP™

GPSMAP Plus 722 (xs) and 922 (xs)

The new GPSMAP 723 and 923 chartplotters with sunlight-readable and highly backlit screen offer bright colours and crisp details for top light quality in any conditions. With their added processing power and new slimline design, it's easy to retrofit these plotters in a wide range of dash configurations. Also available in the xsv version with the most advanced sonar functions on the market featuring a built-in 1kW single-channel CHIRP sonar with ClearVü-SideVü capabilities. Transducer sold separately.

Code	GARMIN code	Description	Model	Display	ClearVü	SideVü	Chart compatibility	⟷ cm
29.044.25	010-02365-00	Chartplotter	GPSMAP 723	7" touchscreen multifunction	No	No	G3 - G3 Vision	22.4x14.3x5.4
29.044.27	010-02365-02	Chartplotter + sonar	GPSMAP 723 xsv	7" touchscreen multifunction	Yes	Yes	G3 - G3 Vision	22.4x14.3x5.4
29.044.37	010-02365-50	Chartplotter + sonar + radar GRM18HD+	GPSMAP 723 xsv	7" touchscreen multifunction	Yes	Yes	G3 - G3 Vision	22.4x14.3x5.4
29.044.26	010-02366-00	Chartplotter	GPSMAP 923	9" touchscreen multifunction	No	No	G3 - G3 Vision	25.6x16.2x5.2
29.044.28	010-02366-02	Chartplotter + sonar	GPSMAP 923 xsv	9" touchscreen multifunction	Yes	Yes	G3 - G3 Vision	25.6x16.2x5.2
29.044.38	010-02366-50	Chartplotter + sonar + radar GRM18HD+	GPSMAP 923 xsv	9" touchscreen multifunction	Yes	Yes	G3 - G3 Vision	25.6x16.2x5.2

► Accessories for GPSMAP series

GARMIN thru-hull CHIRP brass transducers

Code	GARMIN code	Model	Power	Frequency	Case inclination
29.041.50	010-11634-20	Transducer Tilt B75H Depth / Temp.	600 W	130 - 210 kHz	0 - 7°
29.041.52*	010-11634-21	Transducer Tilt B75H Depth / Temp.	600 W	130 - 210 kHz	8°- 15°
29.041.53*	010-11634-22	Transducer Tilt B75H Depth / Temp.	600 W	130 - 210 kHz	16°- 24°
29.041.60*	010-11937-20	Transducer Tilt B175H Depth / Temp.	1 kW	130 - 210 kHz	0 - 7°
29.041.61*	010-11937-21	Transducer Tilt B175H Depth / Temp.	1 kW	130 - 210 kHz	8°- 15°
29.041.62*	010-11937-22	Transducer Tilt B175H Depth / Temp.	1 kW	130 - 210 kHz	16°- 24°
29.041.51	010-11636-20	Transducer Tilt B75M Depth / Temp.	600 W	80 - 130 kHz	0 - 7°
29.041.56*	010-11636-21	Transducer Tilt B75M Depth / Temp.	600 W	80 - 130 kHz	8°- 15°
29.041.57*	010-11636-22	Transducer Tilt B75M Depth / Temp.	600 W	80 - 130 kHz	16°- 24°
29.041.63*	010-11939-20	Transducer Tilt B175M Depth / Temp.	1 kW	85 - 130 kHz	0 - 7°
29.041.64*	010-11939-21	Transducer Tilt B175M Depth / Temp.	1 kW	85 - 130 kHz	8°- 15°
29.041.65*	010-11939-22	Transducer Tilt B175M Depth / Temp.	1 kW	85 - 130 kHz	16°- 24°

29.041.50/51/52/53/56/57/60/61/62/63/64/65

* *To order.*

GARMIN CHIRP and gWind transducers

The last generation of CHIRP transducers provides huge advantages in resolution of all that is under the boat as well as larger working areas and much greater detail on shallow water than traditional transducers.
The gWind transducer combines technology, know-how and design, and is an easy-to-install solution that eliminates running wires down the mast. The twin-fin design gives a more stable True Wind Angle (TWA) and more accurate True Wind Speed (TWS) in any weather condition.

Code	GARMIN code	Model	Power	Frequency	Case inclination	Transducer type
29.042.21	010-12402-10	GT15-TM	600 W	85 - 165 kHz	-	Stern
29.042.23	010-12401-10	GT8HW-IH	250 W	150 - 240 kHz	0 - 25°	Inside
29.042.24	010-12402-00	GT15-IH	600 W	85 - 165 kHz	0 - 25°	Inside
29.042.28	010-01616-00	gWind Wireless 2	-	-	-	Wind

GARMIN GMR 18 HD+ radar antenna

High Definition xHD Radar Antenna. New design and new dynamic filtres to provide ottimum performance in all conditions, equipped with innovative "No Transmit Zone" which offers radar transmission only in the direction required. Complete with 15 metre radar cable.

Code	GARMIN code	Power	Beam		Rotation	Dual Range function	cm	kg
			Horizontal	Vertical				
29.005.12	010-01719-00	4 kW (36-nautical mile range)	5°	25°	24 RPM	Yes	Ø 50.8	7.7

GARMIN

New GMR Fantom 18x dome radar

Check your targets from your chartplotter compatible with solid state GMR Fantom18x dome radars.
In low visibility conditions or at night, a radar is crucial for navigation.
These 50-watt solid-state dome radars has an increased range and enhanced target separation.
They deliver up to 60 RPM rotation speed for a refresh rate that can detect movement at any speed.
The power save feature lets you choose when you need more power or less.
With timed transmit mode, you can even specify active and inactive times down to the second to help reduce power consumption.
MotionScope™ detects moving targets and highlight them in different colours so you can navigate around them even in severe weather conditions.

Code	Colour	Garmin code	Power	Beam		Revolution	Dual Range function	cm	kg
				Horizonta	Vertical				
29.005.15	White	010-02584-00	50 W (48 NM range)	5.20°	25°	60 RPM	Yes	Ø 50.8	6.5
29.005.16	Black	010-02584-10	50 W (48 NM range)	5.20°	25°	60 RPM	Yes	Ø 50.8	6.5

GARMIN

New GARMIN GPS antenna

The new dual-band GPS 24xd provides precise location accuracy and high reliability, fast GPS update rate and accuracy within 1 metre.
Multi-band GNSS to within 1 metre to compatible marine multifunction displays, instrument displays and autopilots.
Provides access to four key global navigation satellite systems (GPS, Galileo, GLONASS and BeiDou). Multi-SBAS (Satellite Based Augmentation System) compatibility.
The magnetic heading sensor provides accuracy, stabilising charts, radar overlay and MARPA even at slow speeds.
The antenna is IPX7 water-resistant and compatible with NMEA 2000 or HVS (NMEA 0183) devices.

Code	Garmin code	Description	Package contains
29.089.12	010-02316-00	Antenna GPS24 xd HVS NMEA 0183	GPS antenna, installation kit, 9-m long NMEA 0183 cable, instructions
29.089.13	010-02316-10	Antenna GPS24 xd NMEA 2000	GPS antenna, installation kit, 6-m long NMEA 0183 cable, NMEA 2000 T connector, instructions

GFS 10 fuel (petrol) flow sensor

New flow sensor that connects to the charterplotters and to the Garmin screens to supply information about fuel flow and level, thus allowing calculations, as well as information of the fuel consumption and quantity left.

Code	Ø hose	Max Flow	Min Flow	Max return pressure	voltage	Fireproof	NMEA 2000
29.007.01	3/8"	190 l/h	7,5 l/h	0,5 PSI at 20 GPH/1,0 PSI at 40 GPH	10-22	Yes, in compliance with U.S. Coast Guard standards	Compatible

GARMIN OnDeck

OnDeck, the new remote connectivity system for your boat. Download the free ActiveCaptain® app to monitor onboard battery status, bilge activity, boat tracking, and much more, and to receive alarms that notify you on sensor status change (door, temperature, voltage and relay); you will even control the system connected switches. In short a total monitoring of your boat virtually anywhere.

For more information on the service or to cancel your subscription see: https://activecaptain.garmin.com/TermsOfUse

Code	GARMIN code	Description
29.080.01	010-02134-00	OnDeck Hub

GARMIN Quatix 6 multifunction GPS watch

The pioneering quatix 6 – featuring high-sensitivity GPS, barometer, altimeter and 3-axis compass – is the last-generation multisport watch offering a stunning range of boating-dedicated functions to stay connected with your boat at all times whether you're on land or at sea. Control your onboard entertainment system from your quatix 6 with the built-in Fusion-Link Lite app even when you're not at the helm. BlueChart® g3 charts, sailing specific functions, tide alerts, MOB function, and much more. Designed with the serious athlete in mind, quatix 6 has many indoor and outdoor multisports profiles. Sync playlists from your music streaming service accounts to your watch for Bluetooth phone-free listening. But there's more: quatix 6 has a garmin Pay function for fast contactless payments. The Solar version exploits solar energy for endless activities. In short, you will no longer be able to do without your new quatix 6.

Code	Description	Battery life	g
29.074.13	Quatix 6	Smartwatch: up to 14 days – Max battery life in GPS mode: up to 72 hours.	83

► GARMIN autopilots

GARMIN

GHP Compact Reactor for hydraulic steering systems with GHC 20

Designed for small- and medium-size boats with hydraulic steering system. With solid-state 9-axis Attitude Heading Reference System (AHRS), it minimizes heading error, course deviation, rudder movement and power consumption. Easy to install with flexible mounting options and quick, easy commissioning by adding a compatible chartplotter or a GHC 20 control unit.

Code	Garmin code
29.009.30	010-00705-07

GHP GARMIN Reactor for hydraulic steering systems

The GHP REACTOR autopilot is the ideal solution for vessels with hydraulic steering system. Fitted with a spin-off of aerospace technology and with a solid-state 9-axis AHRS compass, the GHP REACTOR mounts nearly anywhere, in any orientation. Even when the boat is pitching and rolling in rough water, you can remain confident that the GHP Reactor autopilot will keep you on your desired course. The patented Shadow Drive™ technology automatically disengages the autopilot if the helm is turned, allowing the helmsman to maneuver the boat. The autopilot automatically re-engages when the helmsman holds a steady course.

Code	GARMIN Code	Description
29.009.03	010-00705-64	1.2-l 12V reversible pump

GHP GARMIN Reactor for mechanical steering systems

The GHP REACTOR autopilot is the ideal solution for sailing and motor boats with mechanical, hydraulic and solenoid steering system. The innovative GHP REACTOR gives boaters the security of knowing they maintain control, even when relying upon the autopilot. Fitted with a spin-off of aerospace technology and with a solid-state 9-axis AHRS compass, the GHP REACTOR mounts nearly anywhere, in any orientation. Even when the boat is pitching and rolling in rough water, you can remain confident that the GHP Reactor autopilot will keep you on your desired course.

Code	GARMIN code	Description
29.009.20	010-00705-45	GHP REACTOR – RETROFIT / SOLENOID / MECHANIC COREPACK includes: GHC20 display, ECU (Electronic Control Unit), CCU/ECU connection cable, acoustic warning, ECU power cable, NMEA 2000® installation kit.
29.009.22	010-11572-00	A-type mechanical linear actuator, for boats up to 13,000 kg/12V displacement
29.009.23	010-11829-00	GRF10 rudder angle sensor, 2-m cable and installation kit
29.009.24	010-11533-00	Power cable for actuators

► Portable GPS by GARMIN

GARMIN GPSMAP 86

The innovative GPSMAP® 86i and 86s devices feature sunlight-readable 3" colour display and BlueChart g3 coastal charts that include the best of Garmin and Navionics® data for an unmatched detail level.
Wireless connectivity makes the exclusive GPSMAP® 86 systems a virtual extension of your onboard Garmin marine system for convenient operation of your autopilot, select FUSION marine products and real-time boat data displayed right on your handheld. With built-in inReach satellite technology, GPSMAP 86sci helps you stay in touch globally. Send and receive two-way text messages, track and share your journey, and, if necessary, trigger an interactive SOS to get emergency help from a 24/7 global monitoring center via the 100% global Iridium® satellite network even out of mobile coverage.

Code	GARMIN code	Model	Charts	Wireless	Smart notifications	Remote control	INREACH functions	ABC sensors
29.075.61	010-02235-01	GPSMAP 86s	BlueChart g3	Yes	Always connected with Smart Notification, call notifications and SMS available on your display	Remote control function for Garmin autopilots and Fusion multimedia systems	No	Accelerometer, barometric altimeter and compass
29.075.62	010-02236-01	GPSMAP 86i	BlueChart g3	Yes	Always connected with Smart Notification, call notifications and SMS available on your display	Remote control function for Garmin autopilots and Fusion multimedia systems	Yes	Accelerometer, barometric altimeter and compass

GARMIN GPS 73 portable GPS

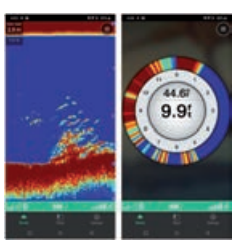
GARMIN GPS 73 is heavy-duty, watertight and floating. 12-channel receiver with 1-Hz GPS antenna for higher precision. 2.6-inch high-contrast single-colour display, 100 tracks that you can navigate back to, specific navigation backup. GPS 73 is NMEA 0183 compatible. To transfer data to your device, it easily connects to your computer via USB and you can save navigation data or create the route of your next regatta from home via the free Garmin HomePort™ software. The exclusive SailAssist function helps you sail more effectively. For those who like to race, there's a virtual starting line between two points (e.g. buoy and jury boat) and a countdown timer to make sure you cross the starting line at the right time. During navigation tack assist lets you know when to tack based on whether your boat is getting headed or lifted compared to the boat's optimal tacking angle. Internal database of the biggest cities, spotlights, navigation lights and lighthouses. 12/24-volt cable supply (OPTIONAL) or with 2xAA batteries; dimensions 6.6 x 152.2 x 3.0 cm, weight 218.3 g (batteries not included).

Code	Waypoint number and POI	Proximity waypoint	Man outboard function	Warning tones	Data sheet	Charts	MicroSD card	Supply
29.075.51	1000 - no POI	Yes	Yes	Yes	Fishing periods – sun/moon phases – tide tables	No	No	18 hours with batteries

New GARMIN GPSMAP 79s handheld GPS

Stay on course with the GPSMAP® 79s. This floating handheld GPS has a high-resolution colour display that can be read in the sun. The glass is even scratch-resistant and fogproof. With support for multiple satellite constellations, it gets accurate, reliable tracking and positioning around the world. Get the world's basemap or the optional BlueChart® g3 charts.
More memory than previous models, it saves and tracks 10,000 waypoints and 250 routes.
The built-in compass shows the heading.

Code	Compass	Charts	Battery lifetime	Display	Weight	⟷ cm
29.075.63	Yes	Yes	Worlswide Basemap	19 hours with GPS	3"	6.8 x 17.4 x 4.2



GARMIN Striker Cast

Why guess where to find fish? STRIKER Cast is a small floating buoy with built-in sonar that shows on your smartphone or tablet exactly where they are. The new STRIKER Cast sonar works in freshwater or saltwater and paired with the free app STRIKER Cast it will stream and view sonar on your mobile devices as if they were fishing-dedicated displays. The new STRIKER Cast is also available with built-in GPS and Quickdraw Contours to create custom fishing maps.

Code	GARMIN code	Description
29.090.01	010-02246-02	Striker Cast Garmin with GPS

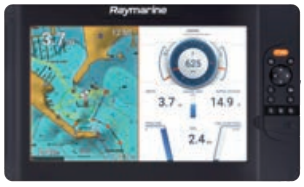
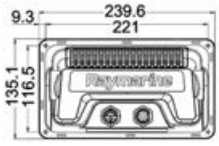
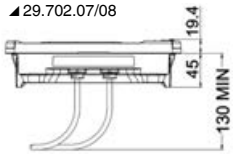
► RAYMARINE Element sonars

RAYMARINE Element S 7", 9", 12" sonars

The new Raymarine Element™ models are the last generation of sonar/GPS modules. The quad-core powerful processor combines with the innovative LightHouse 3 Sport user interface for an incredibly easy-to-use navigation experience.
The quad-core processor offers superior performance and the Element display, visible under sunlight and in any weather condition, features excellent colours to show charts and navigation data.
- 7", 9" and 12" display.
- Compatibility with CPT-S transducers.
- Dedicated keypad.
- Quad-core processor with LightHouse 3 Sport user interface.
- Compatible with VHF, AIS, Autopilots, Engines, Tanks, Direction sensors, Quantum WI-FI Radars.
- Compatible with the best navigation charts such as Navionics, C-Map, Lighthouse, Fishing Hot Spots, Standard Mapping and many others.

Code	Description	Display	Resolution	CHIRP Conical (if purchased with CPT-S transducer)	GPS	Wi-Fi	Lighthouse Chart
29.702.07	Element 7 S	7"	800x480	x	x	x	No
29.702.08	Element 7 S	7"	800x480	x	x	x	Yes
29.702.09	Element 9 S	9"	800x480	x	x	x	No
29.702.10	Element 9 S	9"	800x480	x	x	x	Yes
29.702.12	Element 12 S	12"	1280x800	x	x	x	No
29.702.13	Element 12 S	12"	1280x800	x	x	x	Yes

29.070.02 *Lighthouse Chart*

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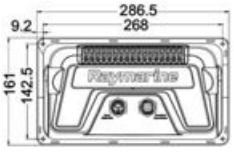
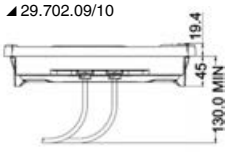

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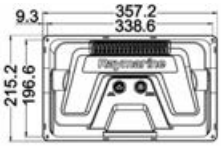
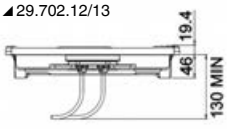




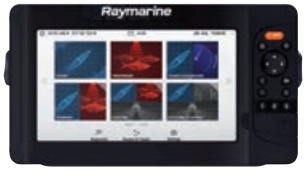
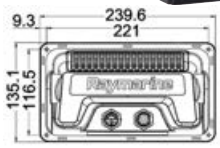
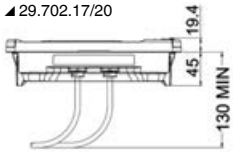
◢ 29.702.12/13

RAYMARINE Element HV 7", 9", 12" sonars

The CHIRP/GPS Element™ HV model from Raymarine gives you the upper hand when hunting for fish and their habitat. Delivering the sharpest view of the underwater world, Element's HyperVision™ 1.2 megahertz sonar technology turns up the resolution of DownVision, SideVision, and RealVision 3D to a new level of precision imaging
- 7", 9" and 12" display.
- Sonar Hypervision with CHIRP 3D technology supported by a single high-functionality level transducer.
- CHIRP 350Hz 1.2 Megahertz dual-frequency sonar.
- Dedicated keypad.
- Quad-core processor with LightHouse 3 Sport technology optimized for fishing.
- Compatible with the best navigation charts such as Navionics, C-Map, Lighthouse, Fishing Hot Spots, Standard Mapping and many others.
- Transducer included.

Code	Description	Display	Resolution	Transducer included	CHIRP Conical	CHIRP Downvision/SideVision/ 3DHyperVision	GPS	Wi-Fi	Lighthouse Chart
29.702.17	Element 7 HV	7"	800x480	HV-100	x	x	x	x	No
29.702.20	Element 7 HV	7"	800x480	HV-100	x	x	x	x	Yes
29.702.19	Element 9 HV	9"	800x480	HV-100	x	x	x	x	No
29.702.21	Element 9 HV	9"	800x480	HV-100	x	x	x	x	Yes
29.702.32	Element 12 HV	12"	1280x800	HV-100	x	x	x	x	No
29.702.33	Element 12 HV	12"	1280x800	HV-100	x	x	x	x	Yes

29.070.02 *Lighthouse Chart*

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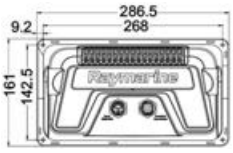
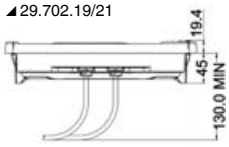

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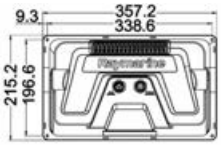
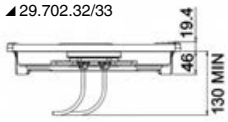




◢ 29.702.32/33

Element accessories

Code	Description
29.702.80	4-m extension cable for HyperVision transducer
29.702.81	Element 7" recess fit mounting kit
29.702.82	Element 9" recess fit mounting kit
29.702.83	Element 12" recess fit mounting kit
29.702.84	Element 7" cover
29.702.85	Element 9" cover
29.702.86	Element 12" cover

► RAYMARINE Axiom instrumentation

Raymarine

RAYMARINE Axiom touchscreen multifunction display

LIGHTHOUSE 3

- Choice of 7", 9" or 12" multifunction display (*XL version in the 16", 19", 22", 24" formats available upon request*).
- LightHouse 3 simple and user-friendly graphic interface.
- 10-Hz 72-channel built-in GPS receiver.
- Built-in sonar in DV and RV versions.
- DV version has built-in CHIRP DownVision sonar, CHIRP Sonar and 600W.
- RV version has built-in CHIRP DownVision sonar, CHIRP Sonar, 600W, SideVision and 3DRealVision.
- Ready to network with NMEA2000 for data integration.
- It connects to multiple displays.
- Wide connectivity: engine data interface, radio, AIS, VHF, autopilots, engine gauges, IP cameras, radar, IP thermal cameras and much more.
- Built-in WiFi.
- 12V supply.
- Built-in GPS antenna.
- Connectivity to the best known Apps such as Netflix, Spotify, Seakeeper and weather forecasts Apps.
- Axiom UAV for integrated control of DJI Mavic Pro drones.
- The 7" version includes bracket and lid for bracket mount. Recess fit mounting kits are available for front or rear mounting (lids included).
- The 9" and 12" versions include bracket, recess fit rear mounting kit and lid. Recess fit mounting kits are available for front mounting (lids included).

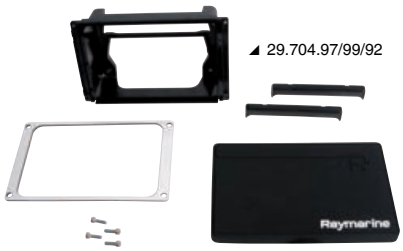
Code	Model	Sonar and stern transducer included	CHIRP DownVision	CHIRP SideVision and 3DRealVision	Display size	Resolution	Front recess-mounting kit*	Lighthouse Chart included
29.704.07	Axiom 7				7"	800x480	**29.704.97**	No
29.704.08	Axiom 7				7"	800x480	**29.704.97**	Yes
29.704.17	Axiom 7DV	x	x		7"	800x480	**29.704.97**	No
29.704.20	Axiom 7DV	x	x		7"	800x480	**29.704.97**	Yes
29.704.09	Axiom 9				9"	800x480	**29.704.99**	No
29.704.10	Axiom 9				9"	800x480	**29.704.99**	Yes
29.704.39	Axiom 9RV	x	x	x	9"	800x480	**29.704.99**	No
29.704.40	Axiom 9RV	x	x	x	9"	800x480	**29.704.99**	Yes
29.704.12	Axiom 12				12"	1280x800	**29.704.92**	No
29.704.13	Axiom 12				12"	1280x800	**29.704.92**	Yes
29.704.32	Axiom 12RV	x	x	x	12"	1280x800	**29.704.92**	No
29.704.33	Axiom 12RV	x	x	x	12"	1280x800	**29.704.92**	Yes

29.070.02 *Lighthouse Chart mapping*

◢ 29.704.07/08/17/20

◢ 29.704.09/10/39/40

◢ 29.704.12/13/32/33



◢ 29.704.97/99/92

RAYMARINE Axiom+ touchscreen multifunction display

LIGHTHOUSE 3

The successor to Raymarine's award-winning Axiom® line, Axiom+ is engineered for top performance. Axiom+ comes with a powerful quad-core processor for speed and responsiveness. Designed for excellent viewing in a range of lighting conditions, the new, higher resolution IPS displays deliver 25% more brightness and new day/night color palettes offer enhanced visibility in any lighting condition. Axiom+ features the renowned LightHouse 3 OS, the most powerful and easy-to-use Raymarine MFD operating system to date.
Distinctive features of the Axiom+ range over the Axiom line:

- HYDROTOUGH™DISPLAYS: Nano-coated, impact-resistant glass screen repels water, oil, and smudges for better viewing and accurate touch controls.
- BRIGHTER: 25% brighter displays (up to 1,800 nit).
- SHARPER: IPS display technology delivers wider viewing angles and sharp contrast at twice the resolution of traditional displays.
- ENHANCED GPS: Next-generation, high-performance 10 Hz GPS/GNSS receiver with 4X increased sensitivity for accurate positioning.
- INTERNAL MEMORY: 16 GB solid state drive.

Code	Model	Sounder and stern transducer included	CHIRP Downvision, SideVision and 3D Realvision	Display size	GPS	Wi-Fi	Lighthouse Chart included
29.705.07	Axiom+ 7			7"	x	x	No
29.705.08	Axiom+ 7			7"	x	x	Yes
29.705.09	Axiom+ 7RV	x	x	7"	x	x	No
29.705.10	Axiom+ 7RV	x	x	7"	x	x	Yes
29.705.12	Axiom+ 9			9"	x	x	No
29.705.13	Axiom+ 9			9"	x	x	Yes
29.705.17	Axiom+ 9RV	x	x	9"	x	x	No
29.705.18	Axiom+ 9RV	x	x	9"	x	x	Yes
29.705.39	Axiom+ 12			12"	x	x	No
29.705.40	Axiom+ 12			12"	x	x	Yes
29.705.32	Axiom+ 12RV	x	x	12"	x	x	No
29.705.33	Axiom+ 12RV	x	x	12"	x	x	Yes

29.070.02 *Lighthouse Chart*

◢ 29.705.07/08/09/10

◢ 29.705.12/13/17/18

◢ 29.705.39/40/32/33

RAYMARINE Axiom Pro touchscreen multifunction display

LIGHTHOUSE 3

Available with 3D RealVision, CHIRP 1kW sonar and Raymarine HybridTouch controls, Axiom Pro sets a new standard for "all-in-one" multifunctions displays. Featuring a quad core processor, high-definition and very bright IPS display technology, and the new LightHouse operating system, Axiom Pro delivers an intuitive and fluid navigation experience.

- Outstanding performance with the Quad core processor.
- Navionics+ Small maps included.
- Built-in GPS 10Hz antenna, 72 channels.
- Ultra-bright IPS display.
- Multitouch touchscreen and keypad.
- NMEA2000 or SeaTalkNG connectivity.
- The Axiom Pro S series features a CHIRP Sonar for depth up to 200 metres. In the RVX versions, the Down/Side/RealVision 3D transducer and the 1kW CHIRP sonar can be connected and work at the same time.
- Compatible with the leading charts such as Navionics and C-Map with Autorouting function for Navionics+ and Platinum+ and Easy routing function for C-Map 4D MAX+.
- Wide connectivity to radar antennas, depthsounders, autopilots, thermal cameras, AIS receivers and many others.
- Free mobile apps for vision and display control from your smartphone or tablet.
- ClearCruise™ AR for augmented reality.
- Axiom UAV for integrated control of DJI Mavic Pro drones.
- **Transducer not included.**

Code	Model	CHIRP Sonar	Side/Down/RealVision 3D sounder	1kW CHIRP sounder	Display size	Resolution	Lighthouse Chart included
29.703.09	Axiom Pro 9 S	x			9"	1280x720	No
29.703.10	Axiom Pro 9 S	x			9"	1280x720	Yes
29.703.39	Axiom Pro 9 RVX	x	x	x	9"	1280x720	No
29.703.40	Axiom Pro 9 RVX	x	x	x	9"	1280x720	Yes
29.703.12	Axiom Pro 12 S	x			12"	1280x800	No
29.703.13	Axiom Pro 12 S	x			12"	1280x720	Yes
29.703.32	Axiom Pro 12 RVX	x	x	x	12"	1280x800	No
29.703.33	Axiom Pro 12 RVX	x	x	x	12"	1280x720	Yes

29.070.02 *Lighthouse Chart*

RAYMARINE Axiom Prox transducers

Code	Description	Compatible with
29.703.91	CPT-S stern transducer	Axiom RV / Axiom+ RV / Axiom PRO S / Axiom PRO RVX
29.703.92	CPT-S thru-hull plastic transducer with 12" tilted element	Axiom RV / Axiom+ RV / Axiom PRO S / Axiom PRO RVX
29.703.96 New	CPT-S thru-hull plastic transducer, 20 degrees	Axiom RV / Axiom+ RV / Axiom PRO S / Axiom PRO RVX
29.703.97 New	CPT-S indoor transducer	Axiom RV / Axiom+ RV / Axiom PRO S / Axiom PRO RVX
29.703.93	RV-100 stern transdecer, Sonar and Down/Side/RealVision 3D	Axiom RV / Axiom+ RV / Axiom PRO RVX
29.703.94	RV-300 thru-hull plastic transducer, Sonar and Down/Side/RealVision 3D	Axiom RV / Axiom+ RV / Axiom PRO RVX
29.703.95	B265LM 1kW CHIRP thru-hull bronze transducer	Axiom PRO RVX

New Refitting kit without bore modification

Upgrade your onboard electronics with the latest Axiom display range **without modifying the bore of your old display.**

Code	Description
29.602.16	Adapter plate to install Axiom 7 / Axiom+ 7 in bore e7x
29.602.17	Adapter plate to install Axiom 9 / Axiom+ 9 in bore a9x
29.602.18	Adapter plate to install Axiom 9 / Axiom+ 9 in bore C70 Classic
29.602.19	Adapter plate to install Axiom 9 / Axiom+ 9 in bore C80/E80 Classic
29.602.20	Adapter plate to install Axiom 9 PRO in bore E90W
29.602.21	Adapter plate to install Axiom 12 / Axiom+ 12 in bore e12x
29.602.22	Adapter plate to install Axiom 12 / Axiom+ 12 in bore a12x
29.602.23	Adapter plate to install Axiom 12 / Axiom+ 12 in bore C120/E120 Classic
29.602.03	ST1-STNG refitting kit

Axiom e Axiom + multipurpose display accessories

Code	Description
29.704.80	The Raymarine RMK-10 remote keypad is a ultra-compact wired keypad accessory that provides full control of the multifunction displays from whatever position.
29.711.02	GPS RS150 10HZ antenna for STNG connection
29.704.81 New	External RCR-1 card reader for bulkhead mounting
29.704.83 New	90° power supply cable

► RAYMARINE Dragonfly sonars

Raymarine

RAYMARINE Dragonfly - 5" and 7" sonar, GPS and chartplotter DownVision™ CHIRP displays with two channels

The new high-performance Raymarine Dragonfly™ sonar/GPS offers the powerful and detailed CHIRP technology to coastal and freshwater fishers at competitive prices. Dragonfly™ is a user-friendly CHIRP-technology sonar/GPS with double-beam transducer ideal for small boats.
Greater detail comes from the CHIRP DownVision™ technology, which delivers a photo-like view of the world beneath your boat up to 180 metres deep, allowing you to image bottom structure with amazing detail and target fish simultaneously. All-weather display: Optical Bonding technology makes it super bright and guarantees never to fog. Dragonfly PRO models stream sonar right to your smart phone or tablet via the freely downloadable Raymarine Wi-Fish™ mobile app, which save your favourite catch and share with friends online.

Code	Description	Display	Resolution	Transducer included	CHIRP DownVision	CHIRP Sonar	GPS	Wi-Fi	Display dimensions mm
29.709.33	Dragonfly 5PRO	5"	800x480	x	x	x	x	x	145 x 145
29.709.34	Dragonfly 7PRO	7"	800x480	x	x	x	x	x	190 x 153

To be ordered on request: Navionics+ or C-Map navigation charts and plastic or bronze thru-hull transducers.

Dragonfly accessories

Code	Description
29.709.40	Recess mounting kit for Dragonfly 4 and 5
29.709.41	Protection cover for Dragonfly 4 and 5 (recess mounting)
29.709.42	Recess mounting for Dragonfly 7
29.709.43	Protection cover for Dragonfly 7 (recess mounting)
29.709.44	Protection cover for Dragonfly 4 and 5 + WiFish on bracket
29.709.45	Protection cover for Dragonfly 7 (bracket mounting)

► Raymarine antennas and accessories

Raymarine

FLIR M232 thermal camera RAYMARINE

The M232 pan and tilt camera is one of FLIR's smallest and affordable marine thermal cameras. Using the high-performance FLIR Boson™ thermal core with multi-core video processor, the M232 offers boaters superior quality images and thermal analysis functions. Fitted with the complete pan/tilt and zoom functions.

Code	Description
29.718.71	M232 IP (320 x 240, 9Hz) thermal camera with Pan/Tilt move system and electronic zoom

New **RAYMARINE FLIR AX8 thermal camera for engine room**

FLIR AX8 combines thermal imaging and a thermal camera in a package that generates automated spot alarms when temperatures exceed pre-set thresholds.
Compact and easy to install, FLIR AX8 thermal monitoring camera watches critical equipment on your vessel, including engines, exhaust manifolds, and shaft bearings, to spot problems before you're stranded on the water.
- Spots potential problems before they happen
- Thermal alarming and visual analysis.
- Raymarine integration.

Code	Description
29.718.73	AX8 thermal and video camera with overtemperature alarm system

Raymarine

New **RAYMARINE visible light marine cameras**

Visible light marine cameras offer an affordable marine CCTV solution. They perform well across a variety of lighting conditions and manage motion well. Simply plug and play with any compatible multifunction display.
High bright IR LEDs for operation in total darkness.
Power over Ethernet (PoE) or direct 12v DC power supply

Code	Description
29.718.74	Camera CAM210 IP CCTV Day and Night - Bullet
29.718.75	Camera CAM210 IP CCTV Day and Night - Eyeball dome

RAYMARINE RS150 10Hz GPS antenna with STNG connection

29.711.02 10-Hz 72-channel GPS receiver for RAYMARINE new multifunction displays.
This GPS sensor offers fast and accurate position updates enabled with WASS, EGNOS, MSAS, GAGAN and GLONASS navigation satellite system support.
NMEA2000 compatible using an optional device net adapter cable to be ordered separately.

RAYMARINE solid-state radar antenna

- Solid-state radar antenna
- Immediate switching-on without pre-heating
- Cable or wireless connection to display
- Reduced consumption
- 24 NM range
- Adaptive digital receiver automatically adjusts to changing environmental and sea conditions for a dramatically clearer picture
- 256-color multi-level target display.

Code	Model	V	Range	kg
29.712.04	CHIRP Quantum wireless radar with 10-m power cord	12/24	24 NM	5
29.712.05	CHIRP Quantum wireless radar with power cord and 10-m data cable	12/24	24 NM	5

RAYMARINE QUANTUM doppler solid state radar antenna

Solid state radar antenna:
- Immediate awareness - Quantum starts up and is ready to go in seconds
- Cable-connected or wireless display
- Extremely low power consumption
- 24-mile range
- Digital adaptive receiver that automatically adapt to weather and sea conditions for increased definition images
- Superior target awareness in multilevel colours (256)
- Adjustable TrueTrails target history shows the motion history of moving contacts
- **Fully automatic MARPA target tracking, along with manual MARPA mode**.

Using advanced Doppler processing, the system instantly highlights moving radar contacts and color codes them to indicate whether they are inbound or outbound.

Code	Description
29.712.24	Quantum Q24D Radar Doppler 18" without power supply and data cables
29.712.25	Quantum Q24D Radar Doppler 18" with 10-m power supply cable + 10-m data cable

New RAYMARINE Cyclone solid state open-array marine radar

- Cutting edge design.
- Engineered for extremes with best-in-class 100-knot wind rating.
- Designed to meet the commercial grade IEC 62388 standard.
- Fast 60 RPM rotational speed.
- Enhanced Cyclone Bird mode to intelligently optimize gain.
- RangeFusion™ technology combines short and long pulses into the single high clarity radar image.
- Doppler target tracking.
- Professional grade ARPA target tracking. Cyclone automatically tracks up to 50 targets using the same advanced ARPA technology trusted by the United States Coast Guard.
- Innovative pedestal design conceals cable connections for a cleaner installation.

Code	Description
29.712.26	Cyclone 55 W 3-foot open-array radar with 15-m long cable

RAYMARINE AIS data receiver

Operating in the VHF maritime band, the Raymarine AIS-Automatic Identification System enables the radio exchange of navigation status between vessels and shore-side traffic monitoring centres. Commercial ships, ocean-going vessels and recreational boats fitted with AIS transmitters broadcast AIS messages that include vessel's name, course, speed and current navigation status.
AIS350/AIS650 offer SeaTalkNG, NMEA2000, NMEA0183 connection for simple integration with Raymarine multifunction displays.
The new Raymarine AIS700 is a Class B AIS transreceiver with built-in splitter for VHF antennas.

Code	Description
29.710.99	AIS350 data receiver
29.710.97	AIS650 class B data receiver and transmitter
29.710.96	AIS700 class B data receiver and transmitter with built-in splitter

RAYMARINE Yacht Sense Hub

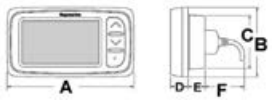
A single locally- or remote-operated access point for all onboard services.
Streamlined for:
- Video streaming.
- Fast 4G Internet coverage.
- Single Wi-Fi access point for Internet surfing and onboard system control.
- Boat tracking.

Code	Description
29.711.70	Single access point for all onboard services

► RAYMARINE instruments

Raymarine

RAYMARINE i40 compact digital displays



Compact yet powerful, they offer complete integration with Raymarine autopilots and navigation instruments, and can be mounted on a surface or a bracket. Very large types (max 28 mm) and extremely sharp LCD.
General characteristics:
- Red background for better night vision
- SeaTalk interface (SeaTalkng by using a converter)
- Built-in transducer interface
- Same size as ST40 Raymarine instruments
- Large keys for easier use during navigation.

Code	Description	A mm	B mm	C mm	D mm	E mm	F mm
29.591.01	Speed display	128	72	55	18	17	30
29.591.02*	Depth display	128	72	55	18	17	30
29.591.03	Bidata display	128	72	55	18	17	30
29.591.04	Wind display	128	72	55	18	17	30

* *80-m max range*

RAYMARINE i50 / i60 instruments

◢ 29.592.01

◢ 29.593.01

◢ 29.592.03

◢ 29.592.20

Designed to be combined with the new Raymarine e-Series and c-Series multifunction displays.
General characteristics:
- Large keys for easy reading
- Red background for better night vision
- SeaTalk and SeaTalkng interface
- NMEA2000 interface (compatible)
- Integrated transducer interface
- Dimensions: 110mm x 115mm (same as ST60+)
- Large keys for easier use during navigation
- Multiple data sources to avoid data clashes
- Front mounting for very easy installation.
- The package includes a front panel to make these instruments similar to the eS series.

Code	Model	Description
29.592.01	i50	Speed display (digital)
29.592.02*	i50	Depth display (digital)
29.592.03	i50	i50 Tridata dispaly (digital)
29.593.01	i60	i60 Wind display (analogic)
29.592.20	Complete package including instruments, transducers and connection cables	i50 Speed + i50 Depth + i60 Wind display + Speed (E26031) + Depth (M78713-PZ) + Wind (E22078) transducers

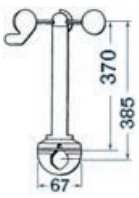
* *80-m max range.*

I70 multipurpose RAYMARINE instrument

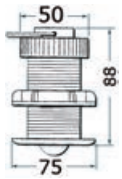
Large 4" LCD display, easy to read and perfectly visible from any angle and distance. The i70 instrument can be customized depending on the boat type. It offers traditional analogical screens as well as details about engine and fuel or information as AIS repeater: the i70 Raymarine can display all required data.
Technical data:
4" LCD display with 160° visual angles, 43-mm number in full screen mode. Anti-reflection treatment.
Light House interface. AIS repeater.
Data supported: wind, speed, depth, tridata, engine (NMEA 2000), environment (NMEA 2000), fuel (NMEA 2000) and navigation.
To be connected to traditional transducers by adding a POD or to smart transducers.

Code	Power	Display dimensions	Resolution
29.603.01	12 V via STNG	LCD 4,1"	320x240 (QVGA)

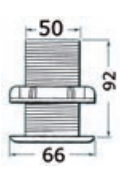
Transducers and sensors for RAYMARINE instruments



◢ 29.600.21



◢ 29.600.12



◢ 29.600.13

◢ 29.600.20

Code	Reference	Description	ST40/i40	ST60/i50s/i60s	i70
29.590.13	E26009	Thru-hull depth plastic transducer (9-m cable)	•	•	
29.600.13	M78713-PZ	Thru-hull depth plastic (P19)	•	•	• (with POD iTC5)
29.600.17	E26001-PZ	Internal adjustable depth transducer	•	•	• (with POD iTC5)
29.590.12	E26008	Thru-hull speed/temperature plastic transducer (9-m cable) – Short	•	•	
29.600.12	E26031	Thru-hull speed/temperature plastic transducer (13.8-m cable) (P120-ST800)	•	•	• (with POD iTC5)
29.600.21	Z195	Wind Rotavecta transducer (20-m cable)	•	•	• (with POD iTC5)
29.600.20	E22078	Wind standard mast head transducer (30-m cable)		•	• (with POD iTC5)
29.600.42	E70010	Multiple POD converter for 5 iTC5 transducers			•
29.600.25	T120	Wind wireless transducer		•*	•*

* *Compatible via gateway interface 29.602.15*

TACKTICK wireless instruments

The TACKTICK Wind system is 100% solar powered and needs no wiring. Install the display by means of its mounting bracket and mast head transducer, switch it on, and wind speed/direction will be displayed.

Code	Description	Package content
29.589.01	T101 wind system	Wind analogic display and masthead transducer with mounting base

29.602.15 *MN 100 to STNG interface gateway available*
29.600.25 *Only wireless Wind transducer available.*

► Autopilots RAYMARINE

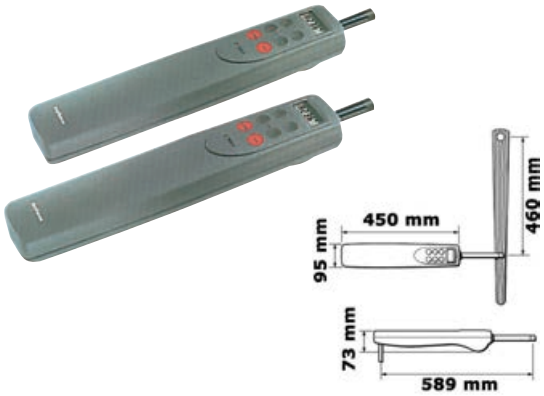
Raymarine

Autopilots RAYMARINE

RAYMARINE bar pilots, micro-processor control, Fluxgate compass; autolock course memory, off course alarm, automatic veering 100°, simple installation, LCD viewer, ST1000/2000.

Type	Code	Power V	W	Max thrust kg	Travel cm	Suitable for hulls max kg
ST1000Plus	**29.620.10**	12	6	57	25	2500
ST2000Plus	**29.620.11**	12	6	77	25	4500

Instructions available in the following languages: ITA - ENG



RAYMARINE inboard/outboard cockpit autopilots

The Evolution™ Autopilot Package includes the control unit, the EV-1 sensor, the power unit and an actuator. The most suitable actuator and ACU depends on the type of steering system and on the displacement of the vessel.

Code	Description	Boat type	Package includes				
			EV	ACU	rudder angle	control unit	actuator
29.623.07	EV-100 Power	Motor vessels, hydraulic steering (cylinder capacity: 50-110 cc)	EV-1	100	not supplied as standard	p70Rs	hydraulic pump, type 0.5
29.623.00	EV-100 Wheel	Sailing vessels, max displacement 7,500 kg * (wheel steering)	EV-1	100	not supplied as standard	p70s	wheel actuator
29.627.03	EV-150 Hydraulic pack	Motor vessels, hydraulic steering (cylinder capacity 80-230 cc.)	EV-1	150	no	p70Rs	hydraulic pump type 1
29.627.02	EV-200 Linear pack	Sailing vessels, max displacement 11,000 kg * (wire/quadrant steering)	EV-1	200	yes	p70s	mechanical linear type 1
29.623.03	EV-100 Tiller	Sailing vessels, max displacement 6,000 kg * (rudder steering)	EV-1	100	no	p70s	bar-type

* *Take into consideration full load displacement.*

◢ 29.623.07

◢ 29.623.00

◢ 29.627.03

◢ 29.627.02

◢ 29.623.03

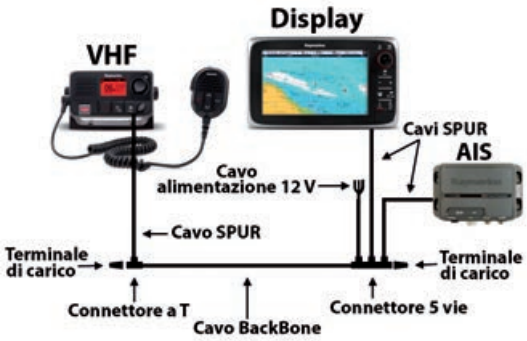
RAYMARINE P70s/P70Rs instruments and autopilot control units

New Light House interface easy to configure.

Code	Model	Version	Power	Display	Resolution
29.603.02	P70s	Push button control	Via STNG network	LCD 3.5"	320x240 (QVGA)
29.603.03	P70Rs	Push button/ knob control	Via STNG network	LCD 3.5"	320x240 (QVGA)

◢ 29.603.02

◢ 29.603.03



RAYMARINE SeaTalkNG networking cables

STNG is a cabling and connection system compatible with NMEA 2000. One of the advantages of the STNG system is that the connector collars are retained on the product which allows for a smaller cable diameter making installations easier. Products with STNG connectors can be used on NMEA 2000 networks and conversely NMEA 2000 equipment networks to SeaTalkng cabling through simple connector adaptors.

Code	Description
29.602.01	Basic STNG kit includes: 1 x 5-way connector, 2 x terminators, 1 x 3-m spur cable and 1 x power cable.
29.602.03	ST1 to STNG converter kit
29.602.04	STNG T piece
29.602.05	5-way connector
29.602.06	3-m STNG Backbone cable
29.602.07	5-m STNG Backbone cable
29.602.08	9-m STNG Backbone cable
29.602.09	20-m STNG Backbone cable
29.602.10	1-m STNG Spur cable
29.602.11	0.4-m adaptor cable - adapts STNG to NMEA2000 network. Female end
29.602.12	1.5-m adaptor cable - adapts STNG to NMEA2000 network. Male end
29.602.13	STNG terminator
29.602.14	12V STNG power cable
29.602.15	STNG gateway interface for wireless wind transducer 29.600.25

BackBone and Spur cables of different length available upon request.

◢29.602.01

◢29.602.05

◢29.602.04

◢29.602.06

◢29.602.10

◢29.602.11

◢29.602.12

◢29.602.13

◢29.602.14

► NMEA 2000 connectors

The NMEA 2000 standard is ideal for data communication and for the interconnection of marine electronic equipment (eg GPS data, wind, depth, AIS etc.). It will be possible to connect equipment designed according to this standard which will have the ability to share data, including commands and status. Through the NMEA connection it is possible to connect up to 50 devices.

New Kit of NMEA 2000 connectors

IP68

Connectors: made of metal.
Type: Micro (22 AWG; 24AWG).
Colour: blue.

Code	Description
29.360.01	Power cable for system with 3A TEE terminal, 5 x IP68 contacts, 4A connector, 3A cable Female terminal connector, 5 x IP68 contacts, 5 x 60V contacts, 120 Ω resistance Junction knot with 3 x NMEA 2000 2F+1M IP68 4A receptors, 60V NMEA 2000 IP68 3A male/female connection cable, 60V, 5 x 2-m contacts

◢29.361.01/03/05/12

◢29.363.02

◢29.364.01

◢29.364.02

◢29.363.15

◢29.363.06

◢29.363.04

New NMEA 2000 connector

IP68

Connectors: made of metal.
Type: Micro (22 AWG; 24AWG).
Colour: blue.

Code	Description	Length m	Power	Notes
29.361.01	Male/female cable	1	3 A	-
29.361.03	Male/female cable	3	3 A	-
29.361.05	Male/female cable	6	3 A	-
29.361.12	Male/female cable	12	3 A	-
29.363.02	Junction knot with 3 x NMEA 2000 2F+ 1M receptors	-	3 A	-
29.364.01	Male terminal connector	-	-	Resistance 120 Ω
29.364.02	Female terminal connector	-	-	Resistance 120 Ω
29.363.15	Power cable for system with TEE terminal	-	3 A (cable) 4 A (connector)	-
29.363.04	2-way connector NMEA 2000 IP68 5 contacts 4A 60V	-	4 A	-
29.363.06	4-way connector NMEA 2000 IP68 5 contacts 4A 60V	-	4 A	-

► Accessories for electronical equipment

DC-DC voltage electronic converter

It can lower the voltage from 24 V to 12 V. It includes an overvoltage and polarity protection circuit. It stabilizes voltage, which is necessary for some electronic equipment.

Code	Volt		A continuous	Type	Efficiency	⟷ mm
	Input	Output				
29.997.01	20-30	13.5±0.5	7	Linear	85%	100x100x60
29.997.02	20-30	13.5±0.5	16	Switching	85%	105x170x35

◢29.997.01

◢29.997.02

Noise suppressor

29.451.20 For installation in the power lead to depth sounders, GPS, Plotters, radio-telephone, etc. It eliminates interference from energy-hungry alternator or onboard instruments (anchor windlasses, radars, etc) and protects instruments against power discharges; 12 V, 60 watt (5Amp), intervention time 5 nanos, peak power 4500 Amp, dissipated energy 45 joules.

GLOMEX deck nylon fairlead

29.140.00 Universal for one two cables, **the connector is also able to pass through**.

GLOMEX
The best in marine antennas

GROUNDPLATE mass plates equipped with special nuts and bolts

Made of **porous bronze**, ideal for achieving an appropriate mass while installing Loran, GPS, Satellites, radio-telephones SSB and help cut-down radio interferences.

Code	Type	Equal to copper grounding m^2	⟷ mm
29.630.01	Standard	1.15	155x51x13
29.630.00	Medium	2	205x64x13
29.630.02	Giant	3.45	300x80x13

► Portable and panel depth sounder

Echosounders NorCross recessed mounting TELEFLEX

It reads from 0,7 to 61 meters up to 101 km/h (63 mph). LCD polarised display. Meters or feet scale. Min. and max. depth alarm (acoustic and optical). 250W max power. 200-khz stern transducer with 9-m cord. Depth calibration depending on the hull immersion (keel offset).

Code	Dial	Ring
29.230.31	Black	Black
29.230.30	White	Polished SS

◢29.230.30

◢29.230.31

NORCROSS portable depth-sounder with built-in transducer

Easy to use: **rest** it on the boat bottom (fiberglass, aluminium, rubber, etc.) from the inside or put it into water for depth reading.
Technical data:
- Range 0.6-72 m (possibility to select 2-240 foot scale).
- Display of water and air instantaneous temperature.
- Smart DepthTrax™ transducer to prevent false signals.
- LCD display.
- Sensitivity gain automatic adjustment.
- Shoot-Thru™ technology: the signal passes through the bottom or the ice or putting it into the water.
- Float with shock resistant rubber cover.
- Waterproof up to 50 metres under water (it can also be used by **scuba divers** since it's IPX8 watertight).
- Power: 1 x 9V (6LR61) alkaline battery.

Code	⟷ mm
29.028.02	200x60

NorCross
Marine Products Inc.

► Hand depth sounder and transducer support

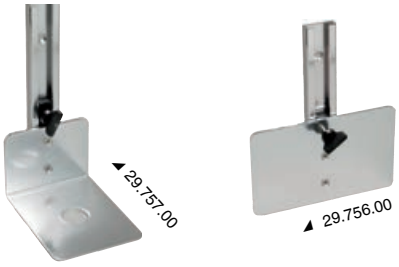
Manual depth sounders made from lead

Convenient probe, compact size.

Code	Cable		houseline marked	kg
	made of	length		
29.510.00	nylon	30 m	every meter and every 10 m, fitted with two marks	1.5

Telescopic stern transducer support

29.758.00 Made of AISI 316 **stainless steel**, fits into all stern transducers for depth sounders and can be raised lowered or removed, length 30 cm.



Universal telescopic stern transducer support

Made of aluminium, the transducer can be raised, lowered by 115 mm or completely removed.

Code	Description
29.756.00	Vertical coupling, for stern transducers.
29.757.00	Horizontal coupling, for ground transducers.

► Speedometers and LOGs without transducer

EASY LOG 2 GPS speedometer without transducer

29.804.00 It shows speed range 0 to 99 knots, miles sailed, GPS coordinates.
- No need for holes in the bilge, transducers, sensors, or antennas. It only needs a 12 V connection.
- Very precise at low speed, it is ideal for sailing and fishing boats.
- Backlighting automatically activated in low lighting.

Black colour, instrument cover included.

► Radar brackets

SCANSTRUT

SCANSTRUT 150-mm aluminium Power Tower

29.900.10 Designed to install the antenna on the cabin roof, on the flybridge or on the rollbar for optimum performance. For radomes Raymarine 2kW/4kW (ex. Quantum), Garmin and Navico 3G/4G and small satellite antennas such asTracVision KVH M2/M3.
Fitted with a SCANSTRUT DS30 watertight gland to seal cable entry into stem. Made of white polyester powder coated aluminium for a mirror finish that lasts in time.
Easy installation without sealant, it comes with inserts that adapt to the cables of the above mentioned antennas.

► GPS navigation charts

Raymarine

RAYMARINE Lighthouse Chart

29.070.02 The new Raymarine Lighthouse Charts offer outstanding details and greater charting flexibility.
Use the RayConnect app to download and see the on Axiom and Element displays.
The purchase of a chart includes two areas.
The Premium version offers satellite image and interest points such as after-sale service centres, gas stations, workshops, services, main roads and restaurants.
Lighthouse Charts are available for global coverage areas. See more on www.raymarine.it

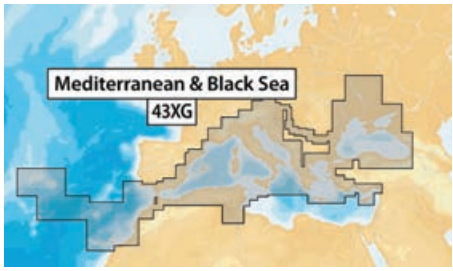
NAVIONICS maps

Navionics Platinum: multi-dimensional Navionics mapping with 3D visualisation - satellite and aerial pictures - panoramic harbour pictures - harbour services and points of interest - dynamic tide icons
Navionics Gold: exceptional detail - bathymetric lines - harbour plans - currents and tides - services - excellent coverage.
Navionics +: exceptional detail - bathymetric lines - SonarChart™ - Auto-routing - Plotter Sync - harbour plans - currents and tides - services - excellent coverage. Chose between 29.080.08 (Mediterranean Sea areas, Black Sea, Canary Islands and Azores) and 29.080.11 (empty). This latter can be downloaded by the final user with one of the XL9 Navionics + areas from navionics.com.
Navionics + Small: exceptional detail - bathymetric lines - SonarChart™ - Auto-routing - Plotter Sync - harbour plans - currents and tides - services. SD/Micro SD card sold empty: the user can download the desired Italian or European areas among those indicated here below from navionics.com. It is also possible to download the Mediterranean Sea maps or the map of similar areas paying the difference on navionics.com.

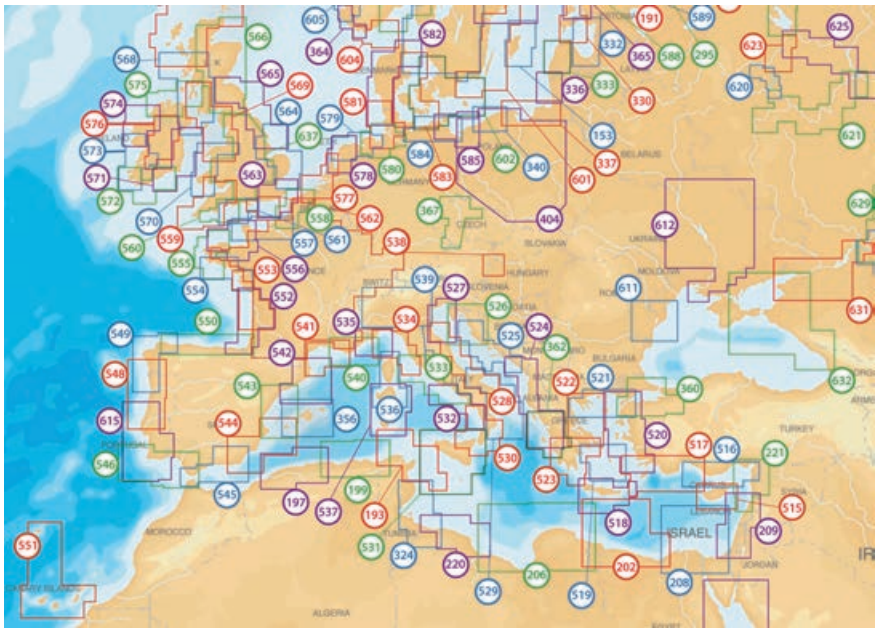
◢ 29.080.35 (XL3)

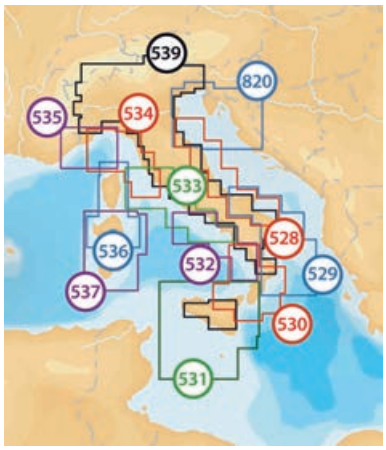
Code	Mapping model	Electronic support	Size
29.080.04	Navionics +	Compact flash	XL9
29.080.09	Navionics + Small	SD / Micro SD	Small
29.080.08	Navionics + 43XG	SD / Micro SD	XL9
29.080.11*	Navionics + empty	SD / Micro SD	XL9
29.080.35	Platinum +	SD / Micro SD	XL3

* *Areas of interest XL9 NAVIONICS +: **1XG** Us & Canada; **3XG** Caribbean & South America; **20XG** Greenland & Iceland; **28XG** Uk, Ireland & Holland;*
***30XG** Africa & Middle East; **31XG** Indian Ocean And South China Sea; **34XG** Pacific; **35XG** China Sea And Japan;*
***43XG** Mediterranean & Black Sea; **44XG** Baltic Sea; **45XG** Skagerrak & Kattegat; **46XG** Central & West Europe;*
***49XG** Norway; **50XG** Australia And New Zealand; **52XG** Russia West*

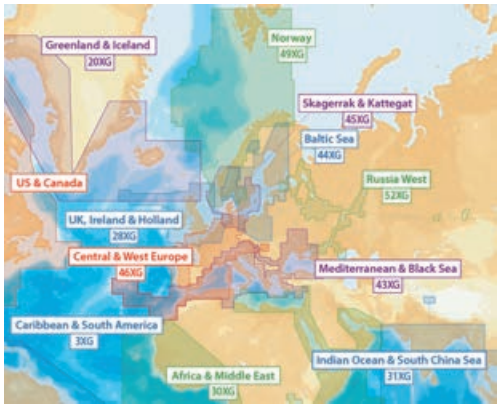


◢ 29.080.08 (XL9 Navionics +)


◢ 29.080.09 (Europe - Small)



◢ 29.080.09 (Italy - Small)



◢ 29.080.11 (XL9 Navionics +)

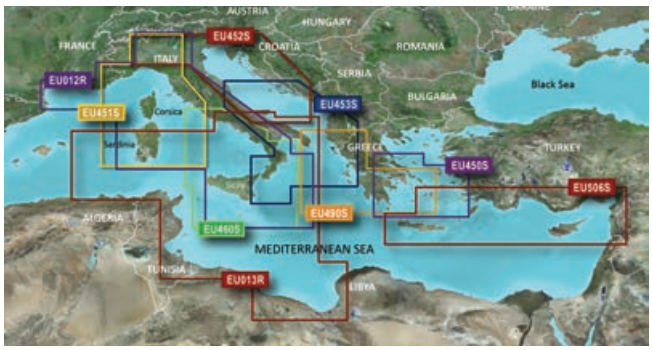
Navionics Updates

29.080.10 It is the most convenient product devoted to continuously enhancing your old cartography and getting the most up-to-date Navionics+ (one-year update program included). This online upgrade service to Navionics+ is compatible with Navionics (Gold or Silver but not Platinum+) as well as cards from other brands such as C-MAP, Fishing Hot Spots, Garmin, LakeMaster, Lowrance, Magellan and TrakMaps.
To activate your new Navionics Updates card, simply connect it to your computer, click Downloads & Updates and verify eligibility using any compatible card from Navionics or other manufacturers. In about 15 minutes you will get the Navionics+ XL9 most updated charts and services. Navionics Updates can also be used to update Navionics+ cartography one year after purchase, once the standard chart update has expired.

GARMIN Charts

Garmin is committed to provide extremely detailed cartography products and to ensure comprehensive coverage. The new marine chart BlueChart G3 offers state-of-the-art coverage, clear and detailed information integrated with data from Garmin and Navionics® charts. The new BlueChart also includes the Auto Guidance feature used to allow the chartplotter to automatically create a route to the destination based on user-determined parameters such as minimum depth and maximum height.
In addition to these outstanding features, the new BlueChart G3 Vision also offers satellite images for a realistic view of the mainland. The 3D MarinerEye and FishEye views offer additional points of view above and below the waterline.

Code	Chart model	Electronic support	Size
29.060.02	Bluechart G3	Micro SD CARD	regular
29.060.10	Bluechart G3 Vision	Micro SD CARD	small
29.060.20	Bluechart G3 Vision	Micro SD CARD	regular
29.060.30	Bluechart G3 Vision	Micro SD CARD	large



► Portable VHF and accessories

COBRA MARINE MR HH150FLTE portable VHF

- Portable. - Manufacture: IPx7 (watertight for 30 minutes @ 1 metre depth).
- Floating. - Scanning: on all channels. - Dual Watch (scanning of Channel 16 + 1 to choose). - Rx indicator: on 3-notch graduated bar. - Tx power: Max 3W - Mid 1W - Min 0.5W. - Sound power: 250 mW - 8 Ω. - Intermediate Rejection: -70 dB. - Power supply: 5 x NIMH batteries or AAA alkaline batteries. - Duration: 9 hours. - Absorption: Tx: 1.1 A, Rx: 100 mA, Standby: 40 mA. - Dimensions: 117 x 69 x 38 mm. - Weight: 227 g without batteries. - Other characteristics: Roger Beep, battery level indicator, keypad lock.

Code	mm	g
29.661.02	117x69x38	227 without batteries

COBRA MARINE VHF MR HH 350

Technical Details: - IPX7 waterproof and floating - 1/3/6 W power - All international channels - BURP function to expel water from microphone - Unlimited channel programming - TRI-WATCH: Channel 16 + 2 programmable channels - Jack for external microphone/speaker - Channel/ Memory scan - Background noise suppression - High-visibility display -- Key Lock to prevent accidental use - Signal strength Meter.
Supplied with 1000 mAh LION battery + 220V battery charger with desktop + 12V (cigarette lighter) charger + belt clip.

Code	mm	g
29.661.04	121x67x53	272

VHF COBRA MARINE MR HH500 Bluetooth - floating

This VHF has a **Bluetooth function for mobile phone interface** which can then be stored in a safe place. The product can be used as a standard VHF, or as a telephone using the Bluetooth connections.
Technical data: Waterproof to IPx7 - **floating** - 6-watt power - All international channels - "Rewind" function to listen to the last calls - Exclusive BURP function to drain excess water from the speaker grill, Signal Meter - Unlimited channel programming - Tri-Watch function for channel 16 + 2 selected channels - Jack for external microphone / speaker - Scanner for memorised channels - Key Lock to prevent accidental use - Background noise suppression - High visibility display.
Equipped with 1000-mAh lithium battery pack with 220V desktop charger + 12 V charger (cigarette lighter plug) + antenna + belt clips.

Code	mm	g
29.661.06	62x36x123	228

COBRA MARINE MR HH600 GPS BT EU VHF

Hand-held VHF complying with the highest safety standards. The MR HH600 GPS BT EU combines all the functions of a DSC class “D” with a 66-channel GPS, a torch, the strobo function, the Microblue Bluetooth Technology and many other Cobra Marine features.
Built-In GPS Receiver & DSC that shows GPS coordinates on screen and automatically sends GPS location and MMSI with DSC calls. The radio’s light can be used as a flashlight or S.O.S. signal, and the light ashes automatically when dropped in the water.
Technical features: built-in DSC class "D", GPS with 66 channels programmed in memory up to 200 waypoints, built-in flashlight and emergency strobe, Microblue Bluetooth technology, IPX8 watertight, floating design and high-visibility orange core, 6 W, Rewind Say Again, Burp function, Noise Cancelling.

Code	mm	g
29.661.07	131x72x47	329

► Fixed VHF

GARMIN 115i and 215i AIS VHF

Garmin last-generation communication systems feature innovative design, sturdy and compact. They provide standard Class D DSC functionality (distress calling and direct calling with user programmed MMSI). Just plug and play via the NMEA 2000 network to compatible Garmin chartplotters and MFDs for a real onboard integrated system. The VHF 215i AIS radio displays AIS (Automatic Identification System) on the chartplotter to enhance communication, situational awareness and collision avoidance between you and other mariners.

◢ 29.084.20

◢ 29.084.21

Code	GARMIN code	Description	Max power	Power V	Mounting	Built-in AIS	Removable microphone
29.084.20	010-02096-01	VHF Garmin 115i	25 W	12	Recess/ Bracket	No	No
29.084.21	010-02098-01	VHF Garmin 215i AIS	25 W	12	Recess/ Bracket	Yes	Yes

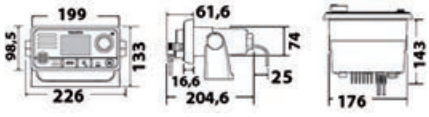
COBRA MARINE F77-EU VHF

IPx7 watertight device.
25/1 watt power. Instant access to channel 16 and DSC.
In addition to all VHF standard functions:
- Built-in GPS: it shows the geographic coordinates when the DSC is activated
- Radio check (check of batteries, transmission power and antenna)
- Rewind say Again (to listen again important messages)
- NMEA inlet/outlet
- Vocal amplifier
- Soft Key function
- Alarm inlet
- Signal reception bar
- Kit for recess mounting included.

Code	Power V	Colour	⟷ mm
29.645.01	12	Grey	180x159x57 H

RAYMARINE Ray63/Ray73 VHF radio

The new Ray63/Ray73 are full-sized VHF radios packed with all the essential communication features that every boater needs. Add the optional handset accessory and you can use your Ray63/Ray73 from 2 locations onboard. The handset also enables intercom calling from station to station.
- Class D DSC receiver.
-Integrated GPS with possible additional external passive GPS antenna (in compliance with the new EN301025 regulations).
- DSC button for GPS position data and digital mayday transmission.
- Instant access to channel 16.
- NMEA0183 and NMEA2000 connectivity.
- Large back-lit LCD screen.
- Dual station with optional RayMic accessory.
- 2 handsets can be connected wireless.
- Ray73 with integrated AIS module.
- IPX6 and IPX7 watertightness.
- Output for fog horn.



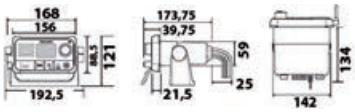
Code	Description	Power V	Mounting	Built-in AIS and loudspeaker output
29.718.26	VHF Ray63	12	Bulkhead or bracket	No
29.718.27	VHF Ray73	12	Bulkhead or bracket	Yes
29.720.06*	Raymic second station for Ray63/Ray73	-	-	-
29.720.07	10-m extension cable for Raymic 29.720.06	-	-	-

* *Extension cable not included.*

RAYMARINE VHF Ray53 radio

This radio combines a powerful communication system into a case that is small enough to mount just about anywhere.
- 25W transmission power.
- Class D DSC transreceiver.
- Simple integration with other onboard electronics via NMEA0183 o NMEA2000 networking.
- DSC button for GPS position data and digital mayday transmission.
- Instant access to channel 16.
- NMEA0183 and NMEA2000 connectivity.
- Large back-lit LCD screen.
- IPX6 and IPX7 watertightness.

Integrated GPS with possible additional external passive GPS antenna.



Code	Description	Power V	Mounting	Built-in GPS
29.718.25	VHF Ray53	12	Bulkhead or bracket mounting	Yes

► WEATHER FLOW & SKYWATCH portable windmeters

WEATHER FLOW wind meter for Smartphones

This small but very precise wind meter turns your devices into an information detector for everyday navigation. It is compatible with iPhone, iPad, iPod, and Android smatphones/tablets. iOS6.0 or Android 4.3 operating systems required. Just plug it into the audio socket. ± 0,5% or 0.1 m/s max error. 0.1 to 56 m/s range. It reads in meters/second, miles/hour, knots, and Beaufort scale. It saves wind speed (average and max) and direction. Shock-proof rubber case.

Code	Type	Tech spec	Connection	⟷ mm
29.801.24	Wind meter	Wind speed and direction	AUX direct	82x40x18

Portable anemometers SKYWATCH

The smallest anemometers available in the market, watertight, high pressure, easy to use, compact size, ideal for all outdoor sports that required wind speed indication; lithium battery, weight 30 g, size 38x88x10 mm, accuracy: ±3%. Features 1) instant wind speed in knots, km/h, mph, m/s - 2) temperature from - 40° to + 80° (-40°F + 176°F) - 3) apparent temperature detected based on wind speed - 4) electronic compass, with detail ±5°- 5) barometer with indication on: absolute pressure from 500 to 1050 hPa; relative adjustable pressure from 500 to 1050 hPa; weather forecast with pressure trend; adjustable altitude up to 8000 meters with 1 meter definition.

Code	Description
29.801.10	performance **(1)** "XPLORER 1"
29.801.11	performance **(1/2/3)** "XPLORER 2"

SKYWATCH EOLE-METEOS portable windmeter

Professional instrument supplying the following:
1) wind instant speed
2) wind average speed over 24 hours
3) wind max speed over 24 hours

- Speed measured in km/h, m/s, knots, mph, fps, bft
- Back-lighting
- Size Ø mm 65x155
- 2 AA battery power
- Watertight and floating
- Propeller protection

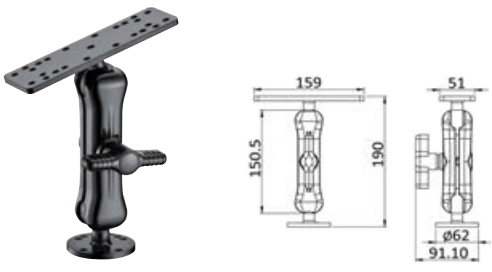
Code	Type
29.801.16	EOLE 1

SKYWATCH Atmos portable anemometer

Professional instrument indicating: instant, maximum and medium wind speed in Km/h, mp/h, m/s, fps, knots, beaufort 2 to 150 Km/h; instant, maximum and medium -20° + 70° temperature; perceived temperature; 2 to 100% instant, maximum and medium humidity hygrometer, dew-point calculation.

Code	Type	Batteries	Backlighting	Watertight	⟷ mm
29.801.17	ATMOS	2xAA	YES	YES	Ø 65x115

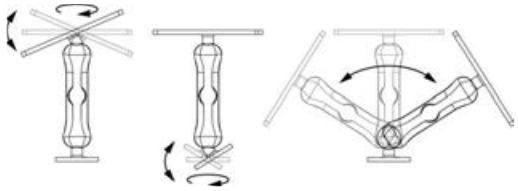
► Instrument holder



Universal instrument holder

Made of black anodized light alloy, the base and the multi-bore plate for the instrument are connected by a ball joint for better adjustment. Loosen the wing nut locking on the side to pull out the plate and instrument from the base to prevent theft.

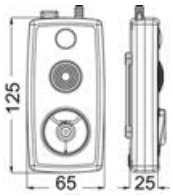
Code	⟷ plate mm	Base Ø mm	Overall height mm
29.759.00	158x50	62	185



► EPIRB (emergency beacons)

Man Over Board based on AIS transmission

The W420 device is an MOB signalling system designed to be carried by individual crewmembers on life vests or oilskins. It activates within 5 seconds of falling overboard. The in-built GPS receiver communicates the MOB position via AIS transmission.
- AIS operating modes (AIS1 and AIS2, power 2 W).
- Minimum 24h continuous operation.
- Inbuilt GPS receiver.
- Compact and lightweight.
- Manual activation and automatic activation when coming into contact with water (very useful in case of unconscious shipwrecked)
- High-efficiency flashing light to help rescuers pinpoint the shipwreched's precise location in poor visibility or bad weather conditions.
- Ready to use, no specific maintenance needed.
- 5-year battery storage life. Batteries are easily replaceable by the final user.



Code	Model	mm	g
29.650.00	W420	125x65x25	140

Manual release EPIRB

- MED type-approved.
- Version with 66 GPS channel.
- Manual release and Water Switch for automatic activation when dipped in water.
- Long life battery (6 years).
- 6-year warranty.
- Conforming to COSPAS-SARSAT system, class 2.
- High-intensity stroboscopic light.
- Zero Warm technology for immediate activation without pre-heating.
- Antenna automatically deploys when removing the EPIRB from its bracket.
- IATA "explosive" battery pack not suitable for air transport in regular airlines.
- Compulsory for pleasure boats over 50 miles (according to the Italian regulations).

Code	Type	Tracking precision	mm	g
29.646.01	MT603G	< 45 m	260x102x83	600

Automatic release EPIRB

- MED type-approved
- Version with 66 GPS channels.
- Automatic release when dipped in water by means of a hydrostatic hook.
- Long life battery (6 years).
- 6-year warranty.
- Conforming to COSPAS-SARSAT system, class 2.
- High-intensity stroboscopic light.
- Zero Warm technology for immediate activation without pre-heating.
- IATA "explosive" battery pack not suitable for air transport in regular airlines.
- Compulsory for fishing vessels authorized over 6 miles and for pleasure boats over 50 miles (according to the Italian regulations).

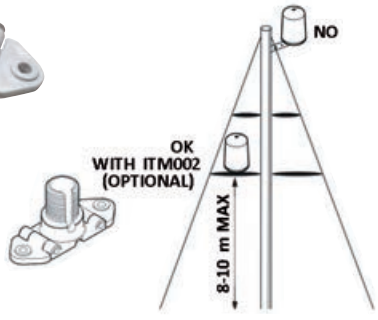
Code	Model	Tracking precision	mm	g
29.647.01	MT603FG	< 45 m	385x157x102	1700

► 4G / wi-fi / GPS mobile GSM antennas

◢29.921.07

◢29.921.08

◢29.921.30



GLOMEX WebBoat Antenna

weBBoat® 4G Lite EVO and weBBoat® 4G Lite High Speed are COMPACT COASTAL INTERNET 4G/Wi-Fi SINGLE SIM and ALL-in-ONE integrated systems designed by Glomex to surf the web at sea (up to approximately 15 miles from the coast) and in marginal signal areas on land.
The system provides the perfect balance between small dimensions and great performance, ensuring stable and high speed connections.

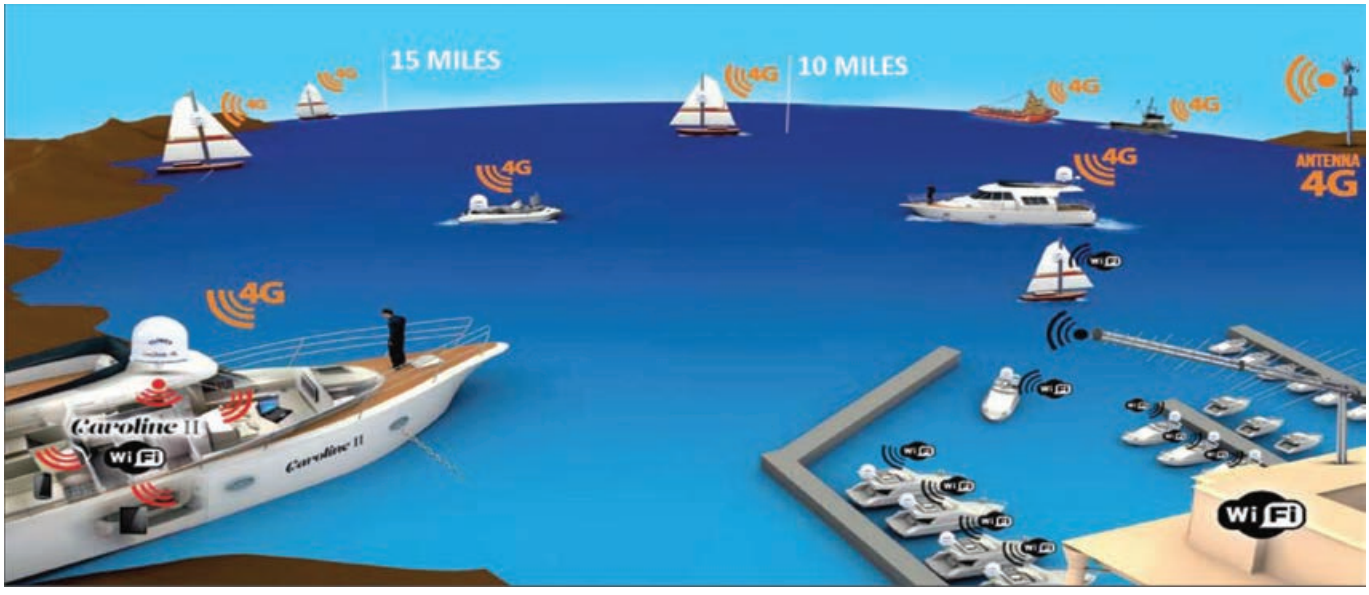
The weBBoat® 4G Lite are equipped with two 4G diversity antennas, one Wi-Fi antenna (EVO model) and 2 Wi-Fi 2.4GHz MIMO antennas (High Speed model), and a 4G/Wi-Fi router that creates a safe hotspot on the boat and motorhome. Up to 24 different devices can be used simultaneously without any degradation to the signal or performance. The units built-in advanced switching software allows the user to save money on costly roaming and overage charges by automatically switching to Wi-Fi when available.

weBBoat® 4G Lite EVO ensures high connection speed, up to 150Mbps in DL, that allows you to surf the web, make video calls, watch streaming platform along the coast. weBBoat® 4G Lite High Speed is an enhanced system ensuring a much higher connection speed, up to 300Mbps in DL. Moreover, it has a new double power processor and the carrier aggregation function for optimizing the speed of data transfers and taking advantage of all the potential offered by the net.

The weBBoat® 4G Lite are true Plug & Play devices that requires minimal setup and only one power lead for the antenna which operates from 10-30 Vdc. Most importantly, all functions of the units are controlled by the free App which is available for both Android and iOS devices. weBBoat® 4G Lite have additional features such as automatic APN, SMS management/reading/sending to monitor internet consumption and automatic switching mode with onboard satellite internet devices/V-SAT and an encrypted real-time peer-to-peer connection for remote set-up and service

Code		Version	V	⟷ mm	kg	Range
29.921.07		WeBBoat 4G Lite EVO	9/30	Ø 140 x 200 h	0.9	15 miles
29.921.08	**NEW**	WeBBoat 4G Lite High Speed	9/30	Ø 140 x 200 h	0.9	15 miles

29.921.30 *OPTION Support for spreader on sailboat mast for WebBoat lite made of reinforced nylon, fitted with two hinges for mounting on curved or rounded surfaces. 1"x14 thread, side or central cable outlet. Install the WebBoat at a 8/10-m max height.*



► Alarm systems and GPS finders

NAV-6 GPS antenna

29.711.03 High-performance passive antenna with effective and low-noise amplifier (27 dB).
It enables the GPS function for AIS systems, chartplotters and other navigation devices, and helps boost the reception signal to the GPS unit, especially when the in-built GPS receiver doesn't have a direct view of the sky.
Supplied with mounting kit, 15-m RG58 cable and TNC male connector.

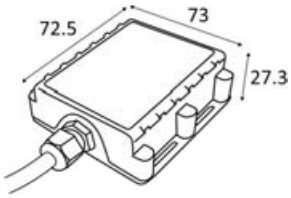
FMB204 satellite tracking system, data SIM included

The 33-channel GNSS receiver reads various satellite constellations (GPS - GLONASS - GALILEO - BEIDOU) in order to spot one's own boat in real time and to display its position on a smartphone or PC.

Technical characteristics:
- Satellite anti-theft protection always on: the anti-theft device activates automatically.
- It is possible to stop the motor from being switched on/off by a text message sent from your smartphone.
- Tracking of routes sailed.
- Lithium Nickel back-up battery (motor protection even without direct power supply).
- IP67 watertight.
- Movement, real time mapping and speed reporting.
- Text alert should the vessel move from its mooring.
- Movement history and courses steered.
- Text alert should the vessel be involved in a collision (ideal for charter fleets).
- Once installed, insurance companies offer up to 50% discount on theft policies.
- 2 inputs and 2 outputs easily configured by the user (i.e. text alert when the bilge pump activates).

The kit contains:
- Hardware: TELTONIKA FMB204 - satellite protection system.
- 1-year subscription to Mobisat® Greenbox (Total Control) tracking system. Monthly or yearly subscription renewal.

FMB204 is delivered to the customer:
- Configured and ready for use.
- SIM card for data connection included (worldwide coverage: 165 countries).
- Manuals in digital format to be downloaded.



Code	Description
29.303.03	Device including GPS antenna, GNSS

► Monitoring and remote-control system

ZigBoat - GLOMEX wireless remote control system

ZigBoat™ is a cutting-edge wireless monitoring system that interacts with your boat from a remote or local control station for safe use.

This system uses the ZigBee and WiFi wireless technologies as well as direct communication with onboard sensors without a cloud: this allows for real-time forwarding of push notifications when critical events occur. Moreover the ZigBoat™ application controls your boat's data at all times.

ZigBoat is available as a kit (including gateway, battery sensor, bilge water sensor, hatch/portlight sensor) **but you can also create your own customized configuration** buying the gateway + single sensors.

◢ Gateway

◢ USB key

◢ ZigBoat Link

Code	Description
29.304.00	ZigBoat kit including: gateway, battery sensor, bilge water sensor, hatch/portlight sensor
29.304.20	ZigBoat Connecctivity kit including: gateway, battery sensor, bilge water sensor and USB key for SIM card for gateway-to-Internet connection)
29.304.01	ZigBoat gateway
29.304.02	Battery sensor
29.304.03	Bilge water sensor
29.304.04	Hatch/portlight sensor
29.304.05	Temperature variation sensor
29.304.06	Fume sensor
29.304.07	Motion sensor
29.304.09	Shore Power sensor
29.304.10	USB 2G/3G drive for internet connection
29.304.11	Smart plug (to switch on and off electronic devices from a remote station)
29.304.12 New	Wireless GPS sensor

◢ Battery sensor

◢ Smart plug 220 V

◢ Hatch/portlight sensor

◢ Motion sensor

◢ Bilge water sensor

◢ Fume sensor

◢ Temperature sensor

► Flares and distress signals

Pleasure boating package conforming to Italian Regulations

Distress signal "Approved by the Italian Ministry for Transport and Shipping". In compliance with the SOLAS 83/96 regulation and internationally certified for Marine Equipment. It can be used on both mercantile and sports vessels in compliance with the Italian Ministerial Decree No. 387 dated 29th September 1999. Packed in rugged cases made of waterproof and floating fabric for safe and long stowage.

Code	Type-approved boating carrying bag	No. of hand-held flares 30.116.01	No. of smoke signals 30.115.00	No. of parachute flares 30.117.00
30.230.01	within 3 miles	2	1	-
30.230.02	within 12 miles	2	2	2
30.230.03	within 50 miles	3	2	3
30.230.04	over 50 miles (unlimited)	4	3	4

30.199.00 *CoGePir flare disposal box*

◢ 30.230.03

◢ 30.230.05

Pleasure boating complying with FRENCH REGULATIONS

Distress signal "Approved by the Italian Ministry for Transport and Shipping". In compliance with the SOLAS 83/96 regulation and internationally certified for Marine Equipment. It can be used on both mercantile and pleasure vessels in compliance with the Italian Ministerial Decree No. 387 dated 29th September 1999. Packed in rugged cases made of waterproof and floating fabric for safe and long stowage.

Code	Content	Navigation
30.230.05	3 hand-held flares 30.116.01.	Not exceeding 6 miles from a mooring point
30.230.03	3 hand-held flares 30.116.01 + 3 parachute flares 30.117.00 + 2 smoke signals 30.115.00.	Beyond 6 miles from a mooring point

30.199.00 *CoGePir flare disposal box*

Professional fishing kit

Distress signals "Approved by the Italian Ministry of Infrastructures and Transport".
In compliance with the SOLAS 83/96 regulations and internationally certified for Marine Equipment.

Code	Type-approved boating carrying bag	No. of hand-held flares 30.116.01	No. of parachute flares 30.117.00
30.231.01	within 6 miles	2	4
30.231.02	within 20 miles	3	6

Kit for lagoon local fishing and working purposes

Code	Package regulatory for navigation	No. of hand-held flares 30.116.01	2-star distress signal 30.118.00
30.231.03	coastal/lagoon fishing and working purposes	3	3

Hand-held flare

Distress signal for night use on ships, life rafts and pleasure boats. In compliance with the SOLAS 74/96 regulation and internationally certified for Marine Equipment MED 96/98 EC, Directive 2012/32/EU, IMO Res. MSC. 81 (70) as amended.

Code	Description
30.116.01	Hand-held flare

30.199.00 *CoGePir flare disposal box*

Parachute flare

Distress signal for night use and lighting of research and rescue operations. To be used on ships, life rafts and pleasure boats. In compliance with the SOLAS 74/96 regulation and internationally certified for Marine Equipment MED 96/98 EC, Directive 2012/32/EU, IMO Res. MSC. 81 (70) as amended.

Code	Description
30.117.00	Parachute flare

30.199.00 *CoGePir flare disposal box*

Mayday floating smoke signal

Distress signal for day use on ships, life rafts and pleasure boats. In compliance with the SOLAS 74/96 regulation and internationally certified for Marine Equipment MED 96/98 EC, Directive 2014/90/EU, IMO Res. MSC. 81 (70) as amended.

Code	Description
30.115.00	Floating smoke signal

30.199.00 *CoGePir flare disposal box*

ALBA distress signal, 2 stars

Daytime distress signal "Approved by the Italian Ministry of Infrastructures and Transport".
For use on vessels, lifeboats and rafts. Also useful for divers, windsurfers and mountain rescue.

Code	Regulatory for
30.118.00	various uses

VERY 1 cartridge

Type-approved by the **Ministry of Merchant Navy,**

Code	Color
30.135.00RO	red
30.135.00BI	white
30.135.00VE	green

► Navigation signs

Black inflatable signal ball

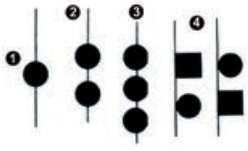
To be hoisted when the boat is at anchor (one piece); if there is no steering, 2 balls shall be mounted vertically. When deflated it takes no room.

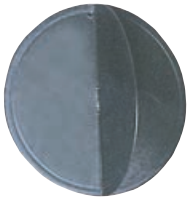
Code	Ø mm
30.654.00	400

300-mm Ø black signal ball

30.650.00 Made of antiglare **black polycarbonate** , to be hoisted during the day when the boat is at anchor. If there is no steering, 2 balls shall be mounted vertically.

1 - at anchor
2 - no steering
3 - aground
4 - danger(using any square flag)





Black signal cone

Made of anti-glare black polycarbonate, designed to be fitted onto the bow when the boat navigates simultaneously using the sail and the motor. Sail and motor propulsion.

Code	Height mm
30.651.00	470

Mirror signal heliograph

Made of unbreakable **chromed plastic**.

Code	Instruction language	Ø mm
30.630.00FR	French	85
30.630.00IT	Italian	85
30.630.00SP	Spanish	85

► Floating rescue lights

STAR 1 floating rescue light with automatic tilt switching

Code	Power supply	⟷ mm
30.584.00	4 x LR20 1.5 V batteries	350x120

Bracket for floating rescue lights

Made of **stainless steel**, for bulkhead mounting or for mounting on lifebuoy bracket 22.418.00/01.

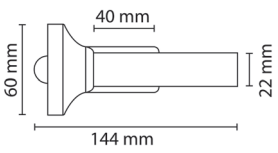
Code	Compatible FRL		Tube Ø
30.584.01	**30.584.00**	and similar	22/25
30.582.01	**30.582.00**	-	22/25

Mini One LED floating rescue light

LED

Last-generation compact LED floating rescue light. MED approval. To be used both on cargo and pleasure boats.
Automatic tilt switching. Fitted with safety rotating switch to be activated before commissioning.

Code	Power	Mounting bracket
30.583.00	2 x AA batteries	Included



Starled floating rescue light

LED

Floating rescue light with automatic tilt switching and LED light source. MED type-testing.

Code	Batteries	Use	⟷ mm
30.582.00	4 x AA	Pleasure + merchant navy	145x105

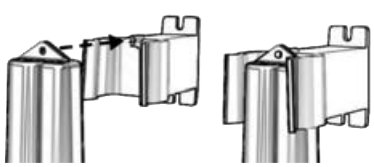
It can be installed instead of item 30.584.00 since the body has the same diametre.

KTR LED floating rescue light with automatic tilt switching

LED

Powered by 4 alkaline AA batteries **included**. Fitted with tilt switching to be activated before using the device. Snap bracket for bulkhead mounting included. Type-approved by MED. For commercial and pleasure boating conforming to Ministerial Decree 385 dated 29/9/99.
To combine with stainless steel plate 37.260.83 + clamp 37.175.8 to hook it vertically on the stanchion or pulpit.

Code	Ø mm	Height mm	kg
30.585.00	110	135	0.160



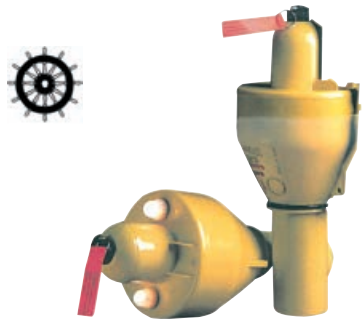
Sealux electronic floating rescue light

30.432.00 Type-tested by RINA in compliance with the CCE 39829 standards. It automatically activates when it comes into contact with water. It does not activate if wet with rain. For pleasure boating (Ministerial Decree 385/99).

IKAROS Hansson Pyrotech MOB

Automatic distress signal + floating smoke light required on fishing boats since 1/1/2004. **Type-approved by Marine Equipment**.

Code	Light	Smoke duration	⟷ mm	kg
30.431.00	2 cd for 2 hours	Min. 15 minutes	200x500	4.8



► 360° lights for signalling buoys, nets, wharfs, etc.

LED signalling lights for signalling buoys or fishing nets

LED

Made in compliance with the Official Gazette No 112 dated 30/04/2011 Art. 13-16-17. CE 1224/2009 regulations. Fitted with automatic twilight switching. Equipped with No. 2 LED electronic circuits to provide white and yellow light.

Code	Power (standard batteries)	Lens color	Flash	Min. visibility	Duration	⟷ mm
30.592.01	2xUM-1	white + yellow	12 / min	3 miles	25 nights	255x55
30.592.06	2xUM-1	white + yellow	12 / min	3.5 miles	60 nights	210x60

Signalling buoy

Ready to fit signalling lights.

Code	Volume l	Buoyancy kg	Ø mm	H mm	Colour	Matching signalling lights
33.176.04	15	13.5	320	800	Yellow	**30.596.01/02/03/04**
33.176.05	50	50	500	1030	Yellow	**30.596.01/02/03/04**

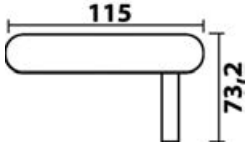
LED warning light

IP67

It signals obstacles, signalling buoys, wharves, harbour entrances, etc. Fitted with seagull scarer.
Powered by lithium batteries charged via a mini solar panel.
The light comes with a bracket and clamp for 18/32-mm tubes; UV-, oil- and corrosion-resistant; CE type-approved.
Switching on:
1 - Automatic twilight switching with flashing mode activation (4 flashes in sequence x 52 cycles/minute).
2 - 30-m reach radio remote control.
3 - Manual.

Manually- or radio remote control-operated functions:
VERSION A
]- White fixed light.
- White single FLASH.
- White flashing light (4 FLASHES in sequence)
- White SOS light.
- Off.
VERSION B
]- Coloured fixed light (red or green).
- Coloured FLASH (red or green corner).
- Gradual FLASH (red or green).
- White SOS light.
- White fixed light.
- Off.

Dimensions: 115x73 mm; weight: 225 gr + 120 gr (bracket).



Code	Light	Version	Visibility nm		Hours with 100% charged battery		
			Flash	Fixed light	Flash	SOS	Fixed light
30.596.01	White	A	1.5	2.0	300	30	12
30.596.03	Red	B	1.5	1.5	300	60	12
30.596.04	Green	B	3.4	2.0	150	30	12

Regulations on fire extinguishers:
Types of fire the extinguishers can put out: the letter stands for the type of material, the number the extinguishing effectiveness.
A = dry material (paper, wood, etc.) - B = liquids (hydrocarbons) - C = gas (buthane, propane).

► Portable fire extinguishers

◢Certification 0029 MED 96/98/EC

MED-type approved powder extinguisher

ALUMINUM TANK

Filled with powder, model without pressure gauge.
One-piece stainless aluminium bottle with bracket.

Code	kg	Extinction category
31.450.00	1	5A 34B C

◢1 Kg

◢2 Kg

CE

◢Certification 0029 MED 96/98/EC

MED type-tested powder extinguishers with pressure gauge

ALUMINUM TANK

Certified by **MED (Marine Equipment) 0029**. **Rust-proof aluminium** cylinder; includes support bracket. Valid for pleasure + commercial boating.

Code	kg	Extinction category	Approved in
31.450.01	1	5A 34B C	Italy/Croatia/Slovenia/Switzerland
31.450.02	2	13A 89B C	Italy/Croatia/Slovenia/Switzerland
31.448.01	1	5A 34B C	UK/France
31.448.02	2	13A 89B C	UK/France
31.447.01	1	5A 34B C	Germany/Austria
31.447.02	2	13A 89B C	Germany/Austria

◢Certification 0029 MED 96/98/EC

ANF fire extinguisher with AFFF MED type-tested foam

ALUMINUM TANK

Ideal in **kitchens** since it effectively extinguishes **vegetal oil** flames **used to cook**. Rustless aluminium bottle with support.

Code	kg	Extinguishing category	⟷ mm
31.450.12	2	8A - 70B - 25F	380x108

◢31.453.09
◢31.452.05
◢31.451.05
◢31.452.02
◢31.451.03

MED-approved fire extinguisher

Approved by Marine Equipment (MED), suitable for Commercial Boating in all countries that comply with SOLAS standards.

Code	kg	Extinguishing product	Extinguishing class	⟷ mm
31.451.03	3	powder	13A-89BC	130x390
31.451.05	6	powder	34A-233B-C	160x515
31.452.02*	2	CO2	21B	100x587
31.452.05*	5	CO2	89B	140x712
31.453.09	9	foam	27A-233B	190x700

* *Stainless aluminium bottle*

◢Certification 0029 MED 96/98/EC

Fire extinguisher blanket

Type-approved by UNI EN 1869:2002, suitable for mounting near the kitchen area; may substitute the require galley extinguisher.

Code	Container mm	Cover cm
31.426.01	205x180x50	120x120

► Fire-prevention systems

Automatic spray powder extinguisher, categories A B C

Fitted with manometer; thermocouple controlled system, activated when the engine room reaches a temperature of 70°.

Code	kg	Outline	For hulls up to	Saturation volume m^3	Ø mm	Height mm	Support
31.515.01	1	cylindrical	6 m	2	83	300	Bulkhead
31.515.22	2	cylindrical	8 m	4	108	380	Bulkhead
31.515.02	2	barrell-shaped	8 m	4	200	200	Fixed
31.515.03	3	barrell-shaped	10 m	6	180	280	Ceiling, swinging
31.515.05	6	barrell-shaped	11 m	9	260	320	Ceiling, swinging

RINA-approved automatic fire extinguishing system

Type-approved by **RINA with DIP 434505C5/02 certification**. Powder extinguishers with automatic activation once the glass bulb crashes at 93°, or when activated manually with remote control.
The kit includes: cylinder loaded with ABC 30% powder; special double output valve: use to connect several nozzles with a copper pipe; remote-operated handle with steel cable; nozzles and 8x10-mm copper pipe.

New 2017 version in compliance with ISO 9094 and fitted with pressure switch to be connected to a warning light on the panel (14.185.01/02 or similar) which signals possible pressure drops or system openings.

A Manual control.
B M10x fitting.
C Nozzle on tank.
D Vertical tank for bulkhead or floor mounting.
E Nozzle on engine room.

Code	kg	Max coverage m^3	Recommended for areas up to m^3	Pipe length m	n° nozzles
31.519.13	3	4.2	4.5	3.50	2
31.519.16	6	8.4	9	4.65	2
31.519.22	12	16.8	18	7.80	4

◢ Fire extinguisher control

RINA FM-200 approved fire extinguishing system

Type approved by R.I.N.A, certification DIP 434505C5/03CE, automatic with ecological extinguishing gas. This product replaces the Halon 1301 model and works upon room saturation.
In comparison with powder extinguishers, it leaves no hazardous residues therefore, even in case of unwanted opening, the mechanical parts and accessories obstructed with extinguishing powder does not have to be restore.
The kit includes: **loaded cylinder** with gas **FM 200**+ special thermal **SPRINTVALVE** that activates at 93°+ remote control cable with handle + **fire extinguisher bracket.**
Working upon saturation this product does not **need piping or additional nozzles**.
Several extinguishers may be used for large room areas.

New 2017 version in compliance with ISO 9094 and fitted with pressure switch to be connected to a warning light on the panel (14.185.01/02 or similar) which signals possible pressure drops or system openings.

Code	Litre load	Saturation coverage		⟷ canister mm
		max m^3	recommended m^3	
31.520.13	3	5.1	3.35	Ø130x390
31.520.16	6	10	6.70	Ø160x465
31.520.22	12	20	13.40	Ø190x600

The saturation coverage is calculated by watertight area, in case of openings, an increase of 50% needs to be calculated.

FM-200

◢ Patented valve with thermal (79°C standard bulb), electric and manual activation.

◢ Extinguisher control

Remote extinguisher activation kit

31.514.00 It includes: mechanical triggering system + cable 17.450.90 + compartment; for extinguishers 31.515.03/05.

17.452.56

17.452.55-56

17.452.55

17.452.93

White ABS compartment

Suitable for housing flexible controls 17.450.90/91 or similar types for emergency cutouts or for activating fire extinguishers.

Code	Housing type	Version	external Ø mm	hole Ø mm
17.452.93	New Edge	With Fire Extinguisher graphic	87x94	69
17.452.94	New Edge	Fuel Stop printed on cover	87x94	69
17.452.55	Classic EVO	With Fire Extinguisher graphic	95	69
17.452.56	Classic EVO	Fuel Stop printed on cover	95	69

Classic EVO housing: with new improved closing system.

17.452.94

MINIMAX

31.601.00

31.602.00 / 31.604.00
31.606.00

Push button

D

E

E

G

H

New

Aerosol fire suppression system, RINA type-tested

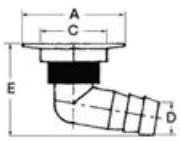
< 24 m

AEROSOL

Max Marine RINA type-tested aerosol fire-suppression system consists of a generator module filled with solid extinguishing agent. Upon activation the agent turns into aerosol having few micron particles that disperse into the environment like a gas.
The aerosol generated extinguishes the fire by inhibiting the combustion chemical reaction without reducing the content of oxygen present in the protected environment, without generating toxic or corrosive substances and without ozone depletion. This product is eco-friendly.
The system has a pull activation device or a remote-controlled electrical activation device as well as an automatic intervention device (thermal wire).
This system has **several advantages**: **small size**, **low weight**, **easy to install** since no piping, no delivery nozzles and no under-pressure containers are required.
Max Marine activation and intervention logics are supervised by a control panel having free contacts to stop utilities.
Central unit power: 24V.

Code	Components	Model	Max protected gross volume m^3	Max protected net volume m^3	⟷ Ø x L (each generator unit)	kg for the system
31.601.00	1 x generator module 1 with fastening brackets and thermal wire **(H)**	Max Marine 10	13	10	86x140	2
31.602.00	1 x generator module 2 with fastening brackets, 1.5-m connection cable **(E)**, control central unit **(D)**, pre-alarm siren **(F)**, lamp test **(G)** and thermal wire **(H)**	Max Marine 20	25	20	100x240	5
31.604.00	1 x generator module 2 with fastening brackets, 2 x 1.5-m connection cables **(E)**, control central unit **(D)**, pre-alarm siren **(F)**, lamp test **(G)** and thermal wire **(H)**	Max Marine 45	50	40	100x240	9.5
31.606.00	2 x generator module 3 with fastening brackets, 2 x 1.5-m connection cables **(E)**, control central unit **(D)**, pre-alarm siren **(F)**, 2 x lamp tests **(G)** and thermal wire **(H)**	Max Marine 70	70	65	115x260	13

17.681.02



17.681.01

Fire Port with hose adaptor

For wall or floor mounting. It can be connected to the engine box or tank room with a pipe.
It activates by applying pressure to the PVC diaphragm.; can be fitted out again without spare parts after been used.

Code	Version	⟷ mm			
		A	C	D Ø hose adaptor	E
17.681.01	elbow 90°	70	50	38	80
17.681.02	straight	70	50	32/38	120 (pipe 32 mm) - 90 (pipe 38 mm)

► Lockers for fire extinguishers

Recess fit extinguisher compartment

Made-ready for all 1 kg extinguishers, supplied with blocking straps.

Code	Material	Compartment mm	Depth mm	External frame mm
31.428.00	White ABS	85x340	80	150x410

OSCULATI

Extinguisher compartment with door

Made of **white polypropylene** with **clear UV resistant polycarbonate** hatch, snap-in closure for ANAF 1-kg fire extinguishers. Watertight, high-quality finish, white colour.
Supplied with special brackets and self-blocking strap for perfect fastening of the extinguisher.

Code	External frame mm	Recess size mm	Depth under the frame mm
31.429.00	183x364	140x321	75

OSCULATI

Extinguisher compartment snap in

SNAP IN / A SCATTO Created for ANAF extinguisher (1kg).
You have only to press it into the box, without any type of hook.

Code	Material	⟷ external mm	Depth mm
31.428.01	White ABS	150x408	81

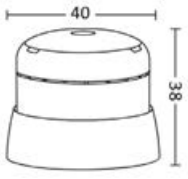
OSCULATI

► Gas and CO detector

Carbon monoxide detector

Very compact battery-powered detector with acoustic alarm.
Battery life guaranteed for 10 years from the manufacture date.

Code	Description	Acoustic alarm dB	⟷ mm
31.300.00	Battery-powered detector (10-year life)	85 to 3 m	Ø40 x 38



XINTEX G-2B-R gas/petrol fume detector

Fitted with **2 sensors** to locate in the bilge. 68-dBA acoustic alarm + red LED warning light.
TEST-SILENCE control push button. Supplied with 2 x 6-m cables.

Code	V	Max current draw mA	⟷ panel mm	OPTIONAL 6-m additional cord	Spare sensor
29.787.01	10/30	150	67x67	**29.787.11**	**29.787.12**

XINTEX

XINTEX P2BS propane fume detector

Fitted with **2 sensors** to be positioned where needed and a **solenoid valve**.
A LED will light and a 68-dB alarm will sound in case of leaks; it automatically closes the solenoid valve.

Code	V	Max current draw mA	⟷ panel mm	6-m extension cable OPTIONAL	Spare sensor
29.788.01	10/30	780	67x67	**29.787.11**	**29.787.12**

XINTEX

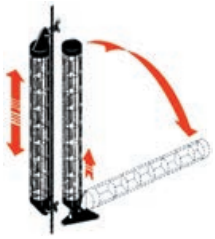
► Radar reflectors

OSCULATI

SUPERCOMPACT radar reflectors

Made of **aluminium** elements crossed at several 90° angles in a plastic container; very high reflecting rate, practical, highly compact. 2m^2 reflecting surface guaranteed up to 2,5 nautical miles.

Code	Model	Length mm	Ø mm
32.235.00	"SAIL" for fitting onto a stay or shroud	600	50
32.235.01	"MOTOR" with **snap foldingin** base	600	50



OSCULATI

PROFESSIONAL radar reflectors

Powered versions of models 32.235.00/01. Made of **aluminium** elements crossed at 90° angles, fitted into a plastic container; surface reflection guaranteed **up to a 4-mile sea range**.

Code	Model for	Mounting	Length mm	Ø mm
32.236.00	sailing boats	shroud or stay	600	100
32.236.01	motor boats	on flat surface*	600	100

* *Through a snap-in foldable base*

OSCULATI

RADAR reflector

Foldable, light-weight and easy to use; supplied with PVC casing.

Code	⟷ cm
32.711.69	34x34x47 (diagonal)*
32.711.70	21x21x30 (diagonal)

* *Type-approved **Rorc/IOR**.*

► First aid kit cases and seasickness bands

First aid kit, Table D.
Made in compliance with Ministerial Decree 01/10/2015 in force as of 18/01/2016

It includes:
250-ml hydrogen peroxide bottle; 1 x AMBU adult resuscitation balloon; 1 x adult resuscitation mask (size 5); 1 x children resuscitation mask (size 2); 1 x nitrile tourniquet; 1 x tubular latex-free tourniquet; 10 x 10-cm h gauze bandages; 1 x ICE PACK; 2 x 10x6-cm plasters; 8 x 125-g compressed cotton wool; 14.5-cm Lister scissors DIN; 19-cm Lister scissors DIN 58279-A190; 5 x 18x40-cm sterile gauze pads; 5 packs of 20x20-cm sterile gauze pads (5x5); 1 pair of sterile nitrile gloves (Large); 5 pairs of sterile copolymer gloves (one size fits all); 1 x small needle collector; 1 x PERSONAL sphygmomanometer with phonendoscope; 1 x flat phonendoscope; 1 x 11x91-cm splint; 1 x first aid multi language guide (24 pages); 1 x copy of the MINISTERIAL DECREE listing the proprietary medicinal products that the final user is required to purchase in pharmacies. The final user shall add the following antiseptic solutions – to be purchased exclusively in pharmacies – to the content of the first aid kit cases: 500-cc chlorhexidine solution 5%.

Type	Authorization	Navigation
Pleasure boating	-	Over 12 miles
Fishing	Local coastal fishing	Within 12 miles
Fishing	Local coastal fishing	Within 20 miles

Code	Case	⟷ mm
32.915.50	Watertight stiff case	470x370x180(H)
32.915.51	Watertight soft case	290x200x410(H)

32.915.50

32.915.50

32.915.51

Empty first aid kit watertight case, Table D

Case of suitable dimensions to contain the first aid kit in compliance with Ministerial Decree 1/10/2015 in force as of 18/01/2016

Code	⟷ outside mm
32.915.49	470x370x180

First aid kit, Table A, in IPX7 watertight case.
Made in compliance with Ministerial Decree 01/10/2015 in force as of 18/01/2016

Professional water- and impact-resistant watertight case.

It includes: 250-ml hydrogen peroxide bottle; 3 x 1-l bottles of benzalconium chlorinate antiseptic solution; 1 x AMBU adult resuscitation balloon; 1 x adult resuscitation mask (size 5); 1 x adult resuscitation mask (size 2); 1 x Guedel airway (size 4 - 90 mm); 1 x Guedel airway (size 3 - 80 mm); 1 x Guedel airway (size 2 - 70 mm); 1 x Guedel airway (size 1 - 60 mm); 1 x plastic tongue holding forceps; 10 x 10-cc sterile syringe.; 1 x NITRILE tourniquet; 1 x tubular latex-free tourniquet; 10 x 10-cm h gauze bandages; 2 x ICE PACKS; 1 x INSTANT COLD PACK; 5 x 10x6-cm PLASTOSAN plasters; 1 x isothermal blanket (gold/silver colour); 8 x 125-g compressed cotton wool; 14.5-cm Lister scissors DIN; 19-cm Lister scissors DIN; 10 x 18x40-cm sterile gauze pads; 10 x 20x20-cm sterile gauze pads; 3 packs (4 pcs each) of vinyl gloves (Large); 10 pairs of sterile copolymer gloves (Medium); 1 pack of surgical masks (50 pcs); 1 x small needle collector; 1 x sphygmomanometer with phonendoscope; 1 x phonendoscope; 1 set of BOSTON STE110 splints (4 pcs, 3 sizes); 1 x digital thermometer; 1 x first aid multi language guide (24 pages); 1 x copy of the MINISTERIAL DECREE listing the proprietary medicinal products that the final user is required to purchase in pharmacies. The final user shall add the following antiseptic solutions – to be purchased exclusively in pharmacies – to the content of the first aid kit cases: 1 litre of sodium hypoclorite solution 1.15%; 1 litre of chlorhexidine solution 5%; 3 litres of iodopovidone solution 10% for mucous membranes and damaged skin.

32.915.52

Type	Authorization	Navigation
Pleasure boating	Only is case the boat meets all 3 requirements: 1) pleasure boat with no limits. 2) Presence of personnel onboard seagoing vessels and registered in the muster-roll. 3) Vessel used for chartering activities.	No limits
Fishing	Local coastal fishing	Within 40 miles
Passenger transport	Class C coastal navigation	Within 6 miles
Passenger transport	Class B national and international coastal navigation	Within 20 miles
Passenger transport	Class D local navigation	Within 3 miles

Code	⟷ mm	OPTIONAL finger pulse oximeter*
32.915.52	555x428x211(H)	**32.915.53**

32.915.52

32.915.53 - OPTIONAL

* *Place into case only in case of passenger ships or when specifically indicated.*

◢32.916.01

◢32.916.03

First Aid Kit Box France

French marine first aid kit box, in compliance with DIVISION 240.

Code	Type	Navigation	Content	⟷ mm
32.916.01	Coastal navigation	Up to 6 miles	5 x 30x30-cm gauze pads; 1 x 6cmx1m medicated plaster; 1 x box of 20 assorted plasters; 1 x roll of white TNT plaster (1.5 cmx5 m); 1 x pack of cotton wool; 2 x 4cmx6m bandages; 1 x 125-ml disinfectant bottle; 1 First Aid manual.	235x190x 43
32.916.02	Semi deep sea navigation	Within 60 miles	5 x 20x20-cm sterile gauze pads; 1 x Emocontrol bandage; 1 x 10cmx4m bandage; 1 x box of 20 assorted plasters; 10 x bags of chlorhexidine disinfectant; 4 pairs of sterile copolymer gloves; 1 roll of white TNT plaster (2.5 cmx5 m); 1 x 125-ml disinfectant bottle; 1 x isothermal blanket; 1 x 10x6-cm plaster; 1 First Aid manual.	263x180x 83
32.916.03	Deep sea navigation	Over 60 miles	5 x 20x20-cm sterile gauze pads; 5 x 30x30-cm sterile gauze pads; 2 x 10x10-cm burn dressings; 1 x 10cmx4m bandage; 1 x 6cmx4m bandage; 1 roll of white TNT plaster (2.5 cmx5 m); 1 x box of 20 assorted plasters; 1 x Emocontrol bandage; 8 x 10x6-cm plasters; 2 x triangular sheets; 10 x bags of chlorhexidine disinfectant; 1 x 250-ml hydrogen peroxide bottle; 1 x 14.5-cm LIESTER scissors; 1 x isothermal blanket; 4 pairs of sterile copolymer gloves; 1 adhesive cross; 1 First Aid manual.	290x215x 90

Medic 0 first aid case

32.914.51 It contains 11 first-aid items. For navigation **within a 12-mile sea range**.
Size: 13x18x7cm.
Content:
- 1 x 96x96x136-cm TNT triangular towel.
- 1 x 5-g compressed cotton wool in case.
- 1 x cellophane gauze bandage (3.5 m x 7 cm)
- 1 x roll of WHITE TNT plaster (5 m x 1.25 cm).
- 2 x 18x40-cm sterile gauze pads (packed individually).
- 1 case x 10 assorted plasters.
- 1 x 10-cm STD scissors with plastic handle.
- 1 pair of sterile COPOLIM gloves (one size fits all).
- 3 x PMC antiseptic towels.
- 1 x little adhesive PVS cross (white and green).
- 1 x LEBENSRETTENDE SOFORTMASSNAHMEN guide.

HELP first aid kit case

32.914.54 For pleasure boating and local fishing or for personal use.
Dimensions: 25.2x20.5x8.7 cm.
Content:
- 6 x 18x40-cm sterile gauze pads (packed individually).
- 1 x 250-ml bottle of PMC antiseptic solution.
- 4 x Cambric gauze bandage (4 m x 5 cm).
- 1 case x 10 assorted plasters.
- 1 x Cambric gauze bandage (4 m x 7 cm).
- 1 x roll of WHITE TNT plaster (5 m x 1.25 cm).
- 2 x 125-g compressed cotton wool.
- 1 x 10x10-cm ATTIVA GRAS paraffin sterile gauze pad.
- 1 x 14.5-cm Lister scissors DIN.
- 1 x NITRILE tourniquet.
- 1 x 22x3-cm plastic splint.

Premier Help+F first aid kit case

For pleasure boating, local fishing and personal use. **The case has a compartment dedicated** to store the medicines prescribed by different national laws. **Watertight** case, dimensions: 38x26x14 cm.Content:
- 6 x 18x40-cm sterile gauze pads
- 1 x 250-ml bottle of antiseptic solution. - 4 x 4x6-cm DIN gauze bandage
- 1 x case of 10 assorted plasters. - 1 x 4x8-cm DIN gauze bandage
- 1 x roll of white TNT plaster (5 m x 1.25 cm)
- 1 x 10x10-cm paraffin sterile gauze pad - 1 x 14.5-cm Lister scissors
- 1 x Nitrile tourniquet. - 1 x 22x3-cm plastic splint - 1 x 25x10-cm paraffin sterile gauze pad (10 layers) – 1 x 50-g cotton wool – 5 x 3-ml ammonia wipes – 1 x label of table D Ministerial Decree No. 279 dated 25/5/1988 – 1 x First Aid manual.

Code	Content description
32.914.44	Italian + English
32.914.45	Croatian

Seasickness bands

32.913.00 Pair of bracelets to prevent nausea without using medicines and without having side effects. They press the acupunture P6, or Nei Guan, spot which is connected with motion/sea-sickness, thus inhibiting it. Packed in a small box for practical use; available in a 12-piece box.

► Ashtrays

Ashtrays

Made of **stainless steel**; fitted with non-skid bottom and leads for best stability; high quality design, fitted with cigarette holder.

Code	Color
32.507.00BL	blue
32.507.00RO	red

► Drogues (Sea anchors)

Mini Sea Anchor

Designed to be laced onto the life vest to reduce drifting in case of MOB.
Required under **IOR** standards for racing boats.

Code	mouth Ø cm	Length cm
32.757.03	15	25

Sea-Drouge floating drogue

Professional drogue made of Rip-stop open weave nylon fabric coated with double gold PVC.
Tow and reinforce straps made of nylon tape.

Code	Width mm	Length mm	For boats m
32.756.01	600	530	6
32.756.02	800	700	8
32.756.03	1070	1100	10
32.756.04	1350	1400	12

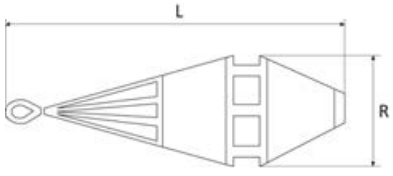
New

Heavy Tug high-efficiency dual-cone drogue (floating anchor)

OSCULATI

The dual-cone profile increases the seabrake efficiency as the sea strength increases.
Water goes out through the drain plug between the cones thus keeping the trim constant.
Made with ultra sturdy materials.
Possible uses: floating anchor, anti-gliding anchor, reduces broaching, anti-rolling when at anchor, stabilizes the boat on tow, reduces drifting, break, stabilizer, emergency steering system.
It comes in a bag.

Code	Model	⟷ cm		For vessels up to m
		Width (R)	Length (L)	
32.783.01	HT 24L	65	200	10.5
32.783.02	HT 30L	80	240	16.5
32.783.03	HT 48L	120	360	22.5
32.783.04	HT 60L	150	470	29

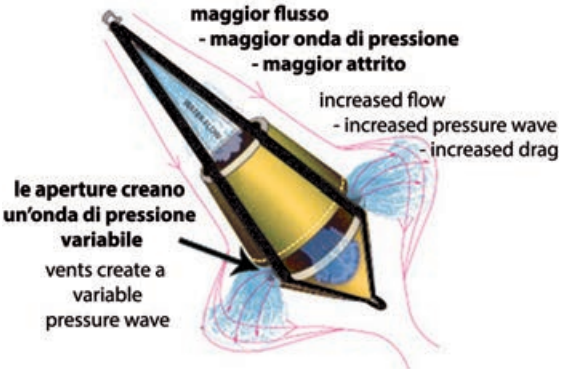


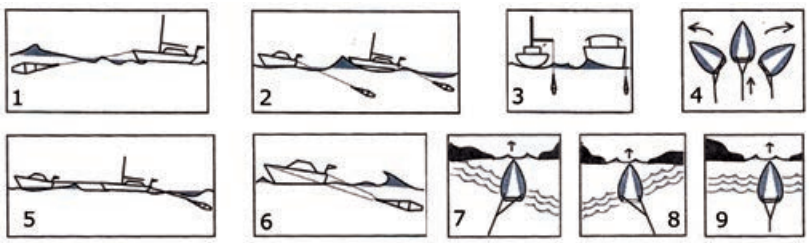
Dual-cone drogue (floating anchor)

PATENT / BREVETTATA

Robust construction, the double-cone profile generates a special turbulence that increases the "Seabrake" efficiency as the sea strength increases. The water goes out through the 4 drain plug at the base thus keeping the trim constant.
Nine possible uses: 1) floating anchor 2) anti-gliding anchor reducing broaching and gliding risk 3) anti-rolling when at anchor 4) emergency tacking 5) stabilization of boat on tow 6) anchor and keel 7) brake 8) stabilizer 9) emergency steering system.

Code	Model	For hulls up to m
32.782.01	GP 24I	10.5
32.782.02	GP 30I	16.5
32.782.03	GP 48I	22.5
32.782.04	GP 60I	29





► Sea soap and shampoo

OSCULATI

B. CARE Marine Shampoo

Delicate **highly-biodegradable** detergent up to **200 times less toxic for sea weeds and fish** (Low aquatox) and containing **natural and delicate active ingredients** scientifically selected to ensure soothing, refreshing and moisturizing effects (skin-friendly). Developed to be easily rinsed even in sea water for onboard energy and water saving. Recommended for use after sunbathing and sports, and have a pleasant and mild effect on dry and sensitive skin. This shampoo can be used on both natural and dyed hair. 100% recyclable bottle if properly disposed of. Produced in association with **FARMAD Laboratori Fiorenze**.
12-pcs display box included.

Code	Description	Package	PACKAGE
32.956.00	Marine Body Shampoo	250 ml	12
32.957.00	Marine Shampoo	250 ml	12

◄ 32.956.00

◄ 32.957.00

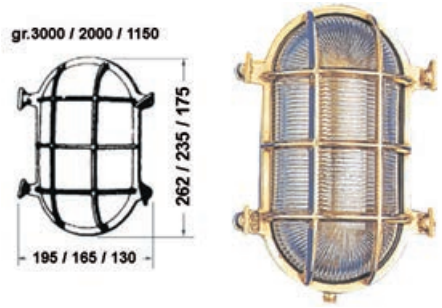
Sea hair and body wash

Biodegradable liquid hair and body wash that can be used with both sea and fresh water. It contains special softening substances that neutralize the sun and salt drying action on hair and skin. 5.5 delicate pH factor.

Code	Package
32.953.00	300 ml

► Brass accessories OLD MARINA

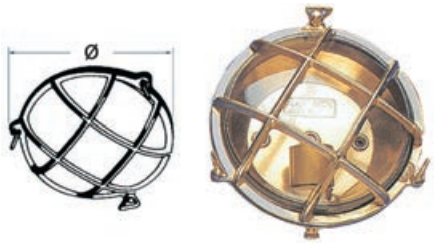
OLD MARINA polished brass round turtle lamp



High-quality finish, dioptric glass, fitted with 2 mounting holes.

Code	⟷ mm
32.203.40	195x262
32.203.50	165x235
32.203.60	130x175

OLD MARINA round turtle lamp



Watertight, fitted with Edison lamp-holder.

Code	Ø mm
32.202.70	215
32.229.00	190

OLD MARINA bell

Made of acoustic **solid bronze**.

Code	Ø mm	Height mm
32.234.00	160	215

OLD MARINA table bell

Made of **polished brass**.

Code	Ø mm	Height mm
32.220.20	80	125

OLD MARINA porthole-shaped mirror

Code	Ø mm	Mirror mm
32.231.00	300	205
32.231.20	210	150

OLD MARINA plate for onboard rooms

Made of **bronze**, fitted with satin letters and edges, burnished base.

Code	Version	⟷ cm
32.525.01	"NO SMOKING"	22,0x3,2
32.525.02	"CAPTAIN"	16,0x3,2
32.525.03	"TOILET"	16,0x3,2
32.525.08	"CAPTAIN'S WORD IS LAW"	14,5x6,0
32.525.09	"NOBODY'S PERFECT ..."	14,5x6,0
32.525.10	"DO NOT ANYTHING ..."	14,5x6,0

Multiuse anchors

Code	Use	⟷ mm
32.200.00	keychain	50 (height)
32.518.00	card holder	140 (height)

Admiralty anchors.

OLD MARINA admiralty anchors

Made of **polished brass**.

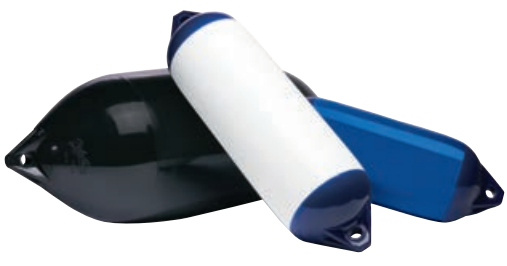
Code	Height cm
32.211.30	8.5

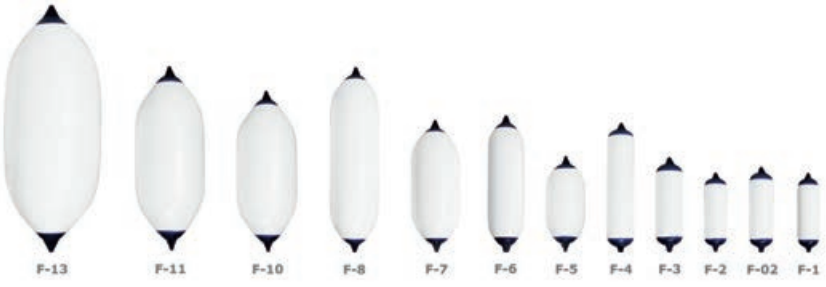
► POLYFORM fenders and buoys

POLYFORM F Series fender

White with heads in different colours. F4 and F6 can also be used as hauling rollers. Fitted with inflation/deflation valve. All pieces are individually tested.

Model	White with blue head	White with black head	⌀ cm	⌀ in	cm	in	kg	€ PACKAGE
F1	**33.512.09**	**33.522.09**	15	6	64	25	1.2	10
F02	**33.512.08**	**33.522.08**	19	7.5	66	26	1.6	10
F2	**33.512.10**	**33.522.10**	22	9	64	25	1.8	10
F3	**33.512.11**	**33.522.11**	22	9	76	30	2.4	10
F4	**33.512.12**	**33.522.12**	22	9	104	41	3.4	5
F5	**33.512.18**	**33.522.18**	30	12	76	30	3.2	5
F6	**33.512.13**	**33.522.13**	30	12	109	43	4.6	5
F7	**33.512.15**	**33.522.15**	38	15	104	41	4.8	5
F8	**33.512.14**	**33.522.14**	38	15	147	58	9.6	4
F11	**33.512.16**	-	60	24	145	57	11.5	3
F13	**33.512.17**	-	80	32	195	77	28.5	2
F10	**33.512.19**	-	51	20	127	50	8.6	2





POLYFORM NF series fender

Fitted with double heavy eyelet. Fitted with inflation/deflation valve. All pieces are individually tested.

Model	Color			⌀ cm	⌀ in	cm	in	kg	€ PACKAGE
	white	blue	black						
NF-3	**33.505.03**	**33.506.03**	**33.507.03**	14	5.5	51	20	0.95	6
NF-4	**33.505.04**	**33.506.04**	**33.507.04**	16.5	6.5	58.5	23	1.25	6
NF-5	**33.505.05**	**33.506.05**	**33.507.05**	21.6	8.5	68.5	27	2.1	4

POLYFORM G Series fender

White colour, lightweight and inexpensive. Fitted with inflation/deflation valve. All pieces are individually tested.

Model	Code	∅		⟷		kg	€ PACKAGE
		cm	in	cm	in		
G1	**33.509.01**	9	3 1/2	33	13	0.3	12
G2	**33.509.02**	11.5	4 1/4	40.6	16	0.5	12
G3	**33.509.03**	14	5 1/2	51	20	0.9	6
G4	**33.509.04**	16.5	6 1/2	58.6	23	1.2	6
G5	**33.509.05**	21.6	8 1/2	68.6	27	2	4
G6	**33.509.06**	26.7	10 1/2	76.2	30	3	4

POLYFORM HTM series fender

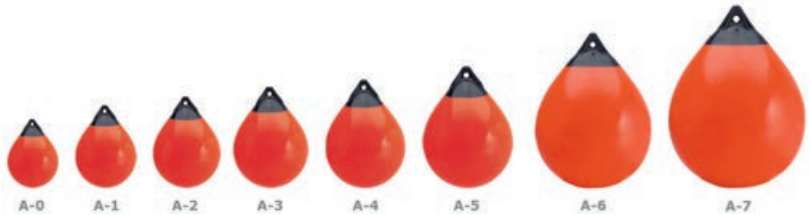
Heavy duty, made for thru-lin. Fitted with inflation/deflation valve. All pieces are individually tested.

Model	Color		∅		⟷		kg	€ PACKAGE
	white	black	cm	in	cm	in		
HTM1	**33.510.01**	-	15.2	6	38.1	15	1.2	6
HTM2	**33.510.02**	**33.510.12**	20.3	8	50.8	20	2.1	4
HTM3	**33.510.03**	**33.510.13**	25.4	10	66	26	3.5	4
HTM4	**33.510.04**	**33.510.14**	30.5	12	86.4	34	4.8	4

POLYFORM A Series fender and buoy

Fitted with inflation/deflation valve. All pieces are individually tested.

Model	White with blue head	White with black head	Redeye with blue head	∅		○		kg	€ PACKAGE
				cm	in	cm	in		
A0	**33.600.05BI**	-	**33.600.05RO**	20.3	8	29.2	11.5	0.7	20
A1	**33.600.12BI**	-	**33.600.12RO**	27.9	11	38.1	15	1.1	10
A2	**33.600.27BI**	-	**33.600.27RO**	36.8	14.5	49.5	19.5	2	10
A3	**33.600.50BI**	-	**33.600.50RO**	43.2	17	58.4	23	3.1	10
A4	**33.600.78BI**	**33.602.78**	**33.600.78RO**	52.1	20.5	68.6	27	4.1	10
A5	**33.600.86BI**	**33.602.86**	**33.600.86RO**	68.6	27	91.4	36	9	5
A6	**33.600.94BI**	-	**33.600.94RO**	86.4	34	111.8	44	15.5	3
A7	**33.600.95BI**	-	**33.600.95RO**	99.1	39	137.2	54	25.5	2



◢ Redeye with blue head

◢ White with blue head

◢ White with black head

► Fenders

Soft PVC fenders

Fitted with inflating **nylon** valve with thru-line. Very sturdy, bright surface. Very large fenders fitted with central rope thru-pipe thus offering great dampening power thanks to 4 PVC layers. Supplied with rope.

Code	Ø cm	⟷ cm
33.512.01	10	26
33.512.02	12	36
33.512.22	14	46

Code	Ø cm	⟷ cm
33.512.03	16	54
33.512.04	20	56
33.512.05	21	62

OSCULATI

PVC fender with double eyelet

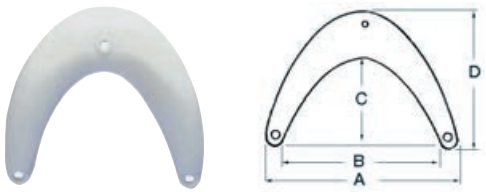
Fitted with inflating valve. Excellent value for money.

Model	Color			Ø cm	⟷ cm	kg
	white	blue	black			
NDH-0	**33.401.00**	**33.402.00**	**33.403.00**	10	34	315
NDH-1	**33.401.01**	**33.402.01**	**33.403.01**	11	46	410
NDH-2	**33.401.02**	**33.402.02**	**33.403.02**	13	53	690
NDH-3	**33.401.03**	**33.402.03**	**33.403.03**	16	61	980

NFD series fender

With double reinforced eye for horizontal and vertical use. Its innovative design allows for a larger impact-absorption surface, the length being equal. High UV- and abrasion-resistant polish.

Model	Colour		Ø cm	⟷ cm	kg	€ PACKAGE
	white	blue				
NFD-1	**33.408.01**	**33.409.01**	18	51	1.4	20
NFD-3	**33.408.03**	**-**	26	71	3.12	15



Fenders made of soft blown PVC

White, fitted with three eyelets for easier installation.

Code	⟷ cm			
	A	B	C	D
33.513.01*	35	29	11	25
33.513.02*	35	26.5	22	33
33.513.03	55	46	29	47

* *Fitted with special flush bulge nylon valve.*

Flat fenders

Made of closed-cell soft expanded PVC with external covering made of PVC fabric, linen and electrowelded.

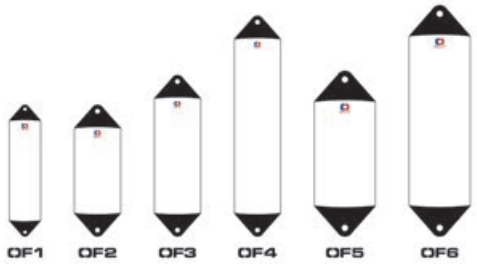
Code	⟷ cm
33.515.01	61 x 16,5 x 6,4 (thickness)
33.515.02	76,2 x 16,5 x 10,1 (thickness)

Heavy Duty fender

Made of high-quality soft PVC. **White** body and **blue** head. Fitted with inflation/deflation valve.
Models OF4/OF6 can also be used as hull hauling rollers. 0.15bar max pressure.

Code	Model	⌀ cm	⌀ in	↔ cm	↔ in	€ PACKAGE
33.212.09	OF1	15	6	62	24	10
33.212.10	OF2	22	9	62	24	10
33.212.11	OF3	22	9	76	30	10
33.212.12	OF4	22	9	104	41	5
33.212.18	OF5	29	11.5	78	30.5	5
33.212.13	OF6	29	11.5	109	43	5

OSCULATI



Heavy Duty fender and buoy

Made of high-quality soft PVC. **White** body and **blue** head.
Fitted with inflation/deflation valve. 0.15bar max pressure.

Code	Model	⌀ cm	⌀ in	○ cm	○ in	€ PACKAGE
33.300.12	OA1	30	11.5	38	15	10
33.300.27	OA2	39	15.4	50	19.5	10
33.300.50	OA3	46	18.1	58	22.9	10

OSCULATI

Fenders for inflatables

Made of light grey closed cell EVA foam. Preformed, with 350-mm radius for use on inflatables up to 12 metres. Ideal to protect inflatables from impact against wharves and docks.

Code	↔ cm	Thickness cm
33.516.01	25x50	2
33.516.02	33x66	2

Flat fender profiles made of EVA+PE

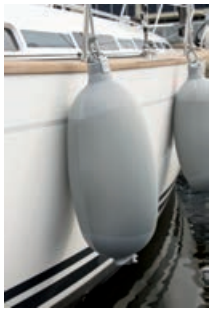
Made of a EVA 100+PE 30 sandwich (closed cell materials), they are floating and oil-resistant.
Very sturdy and elastic, they can be used as emergency cushions or floating aids.

Code	↔ cm	External color
33.504.01	49x18x5	Blue
33.504.02	65x31x8	Blue
33.504.03	95x31x8	Blue
33.504.04	49x18x5	Grey
33.504.05	65x31x8	Grey
33.504.06	95x31x8	Grey

FENDERTEX

◢ 33.301.02/03/04/05

◢ 33.301.52/53/54/55



New FENDERTEX inflatable cylindrical fender

PATENT **SPACE SAVING** **LIGHTNESS**

The inside is resistant to compression and tensile strength, outside made of fabric. Resistant, lightweight, handy, once deflated the fender rolls up to save space on board.
Dope-dyed yarn very resistant to UV rays.
Sturdy fabric that doesn't leave traces or scratches on the hull.

Model	Colour		Ø cm	⟷ cm	kg
	black	dark grey			
C73	**33.301.02**	**33.301.52**	25	70	0.8
C84	**33.301.03**	**33.301.53**	30	80	1
C104	**33.301.04**	**33.301.54**	34	100	1.5
C124	**33.301.05**	**33.301.55**	36	200	2.2

◢ Its patented design technique gives the fender extreme resistance to compression and traction

FENDERTEX

New FENDERTEX inflatable spherical fender

PATENT **SPACE SAVING** **LIGHTNESS**

The inside is resistant to compression and tensile strength, outside made of fabric.
Resistant, lightweight, handy, once deflated the fender rolls up to save space on board.
Dope-dyed yarn very resistant to UV rays.
Sturdy fabric that doesn't leave traces or scratches on the hull.

Model	Colour		Ø cm	kg
	black	dark grey		
S60	**33.302.01**	**33.302.51**	43	1.2
S70	**33.302.02**	**33.302.52**	50	1.6

FENDERTEX

New FENDERTEX inflatable tubular fender

PATENT **SPACE SAVING** **LIGHTNESS**

The inside is resistant to compression and tensile strength, outside made of fabric.
Resistant, lightweight, handy, once deflated the fender rolls up to save space on board.
Dope-dyed yarn very resistant to UV rays.
Sturdy fabric that doesn't leave traces or scratches on the hull.

Model	black	⟷ cm	kg
T124	**33.303.05**	120x36	2.4

► Fender covers

Extra soft fender cover

OSCULATI

Cut-to-size head and bottom adjustable by means of strap and cam cleat. Made of soft texturized and elastic polyester fibre with anti-abrasion weaving. They cover the fenders perfectly, are UV-resistant and washable.

For Polyform model	Navy blue	Black	Light grey RAL7042	Dark grey RAL7043	Beige	Claret	⟷ for fender ±10% mm	
				New	New	New	⌀	
F1-G4-NF4	33.480.01	33.481.01	33.482.01	33.483.01	33.484.01	33.485.01	150	640
F02	33.480.09	33.481.09	33.482.09	33.483.09	33.484.09	33.485.09	190	660
F2-G5-NF5-HTM2	33.480.02	33.481.02	33.482.02	33.483.02	33.484.02	33.485.02	220	640
F3-G6	33.480.03	33.481.03	33.482.03	33.483.03	33.484.03	33.485.03	220	760
F4	33.480.04	33.481.04	33.482.04	-	-	-	220	1040
F5	33.480.05	33.481.05	33.482.05	33.483.05	33.484.05	33.485.05	300	760
F6	33.480.06	33.481.06	33.482.06	33.483.06	33.484.06	33.485.06	300	1090
F7-HTM4	33.480.07	33.481.07	-	-	-	-	380	1040
F8	33.480.08	-	-	-	-	-	380	1470
A1	33.480.15	-	-	33.483.15	33.484.15	33.485.15	290	370
A2	33.480.16	33.481.16	33.482.16	33.483.16	33.484.16	33.485.16	390	490
A3	33.480.17	33.481.17	33.482.17	33.483.17	33.484.17	33.485.17	470	590
A4	33.480.18	33.481.18	33.482.18	-	-	-	550	710
A5	33.480.19	33.481.19	33.482.19	-	-	-	700	920
A6	33.480.20	33.481.20	33.482.20	-	-	-	860	1180
HTM3	33.480.14 New	33.481.14 New	33.482.14 New	-	-	-	160	390

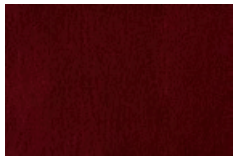
◢ 33.480.xx; 33.481.xx; 33.482.xx

◢ 33.480.0x; 33.481.0x; 33.482.0x

◢ 33.482.xx

◢ 33.484.xx

◢ 33.483.xx



◢ 33.485.xx

Pneumatic fender

OSCULATI

Made with high-strength fabric used for inflatables. Equipped with inflating/deflating valve and SS fastening rings on both sides. The pneumatic fender profiles are extremely lightweight and compact when deflated, they are ideal for:
- sailing and regatta boats - large boats
- emergency and additional fender profiles.

Fender cover	Length cm	Ø cm	Color	Synthetic fiber fender cover		
				Blue	Grey	Black
33.529.01	70	30	Grey	33.530.01	33.531.01	33.532.01
33.529.03	110	30	Grey	33.530.03	33.531.03	33.532.03
33.529.05	100	45	Grey	33.530.05	33.531.05	33.532.05
33.529.07	170	45	Grey	33.530.07	33.531.07	33.532.07
33.529.09	182	60	Grey	33.530.09	33.531.09	33.532.09

◢ 33.529.01

◢ 33.529.05

◢ 33.529.03

◢ 33.529.07

◢ 33.529.09

Fender covers with elastic head

OSCULATI

Made of high-strength **heavy-duty** synthetic fibers, washable and customizable with the **customer's brand**, **boat name or sponsors' name**. In comparison with other light fabric models available on the market, these fenders are made with anti-scratch UV-resistant polypropylene fabric having **no side seams** for very long duration in time.

Model	Navy blue	Fender with eyelet end cap cm		Fender with thru-line cm		Buoy fender Ø cm
		⟷	⌀	⟷	⌀	
A1	**33.500.00**	-	-	-	-	28/29
A2	**33.500.07**	-	-	-	-	38/40
A3	**33.500.08**	-	-	-	-	46/48
A4	**33.500.09**	-	-	-	-	53/56
A5	**33.500.10**	-	-	-	-	68/72
F02	**33.500.12**	64/68	19/20	53/58	19/20	-
F1	**33.500.01**	62/66	15/16	50/55	15/16	-
F2	**33.500.02**	62/66	22/23	51/56	22/23	-
F3	**33.500.03**	74/78	21/23	63/68	21/23	-
F4	**33.500.04**	102/107	21/23	92/97	21/23	-
F5	**33.500.05**	74/78	29/31	63/68	29/31	-
F6	**33.500.06**	106/112	29/31	-	-	-
F7	**33.500.17**	101/107	37/39	-	-	-

◢ 33.500.01/02/03/04/05/06/12/17

◢ 33.500.00/07/08/09/10

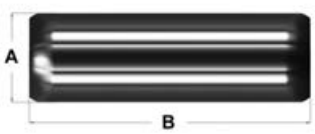
◢ 33.500.01/02/03/04/05/06/12/17

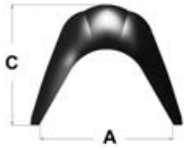
► Fender profiles made of soft injection moulded EVA

Bow fender profiles for straight sharp bow.

Made of soft injection-moulded EVA. Impact- and weather-resistant, it leaves no residues or stains on the hull even in case of heavy impacts.

Code	⟷ mm			Colour
	length (B)	width (A)	height (C)	
33.502.00	630	140	175	white
33.502.02	630	140	175	blue
33.503.00	770	120	90	white
33.503.02	770	120	90	blue

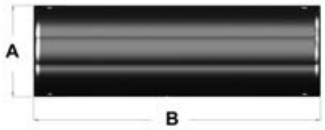


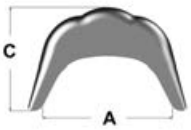


Bow rubbing strakes designed for traditional sailing boats and for stern-side gangplanks

Vertical and horizontal mounting. Made of soft injection-moulded EVA. Impact- and weather-resistant, it leaves no residues or stains on the hull even in case of heavy impacts.

Code	⟷ mm			Color
	length (B)	width (A)	height (C)	
33.502.10	610	190	150	white
33.502.11	610	190	150	blue

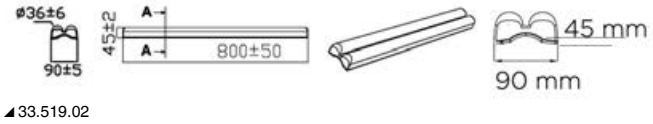




Marina and pile fenders made of solid injection moulded soft EVA

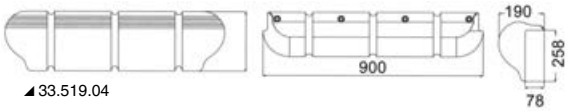
This fender ensures maximum protection against shocks and atmospheric agents. Does not leave residues or stains on boats even in case of violent shocks. Can be mounted on concrete quays and floating pontoons.

Code	Type	Colour	⟷ mm
33.519.02	TRE	blue	800x90x45
33.519.03	MAXFENDER	blue	730x175x140
33.519.33	MAXFENDER	white	730x175x140
33.519.04	BIGFENDER	blue	900x250x190
33.519.44	BIGFENDER	white	900x250x190
33.519.05	ANGOLO	blue	800x230x310
33.519.06	SISTEMA ZERO	blue	800x90x70
33.519.07	MEGA 1	blue	1000x300x160
33.519.08	BEND FENDER	blue	330x250x110
33.519.38	BEND FENDER	white	330x250x110
33.519.09	COVER FENDER	blue	800x450x30

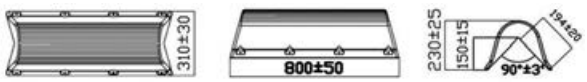


33.519.02

33.519.03/33



33.519.04



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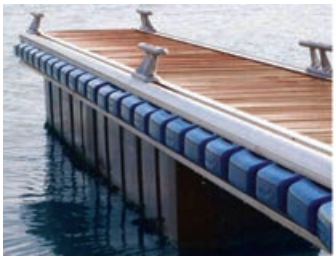

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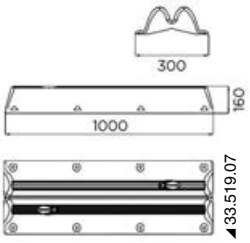
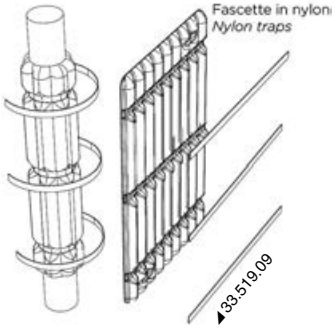
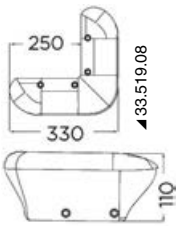
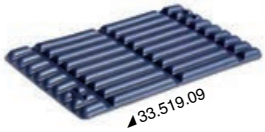




33.519.38 (white) - 33.519.08 (blue)





► Fender accessories

Foldable stainless steel fender-holder

Mountable into pipe Ø 22/25 mm with an adjustable clamp, or onto a flat surface; **can be turned down on stanchions or on walls**. Individually sold.

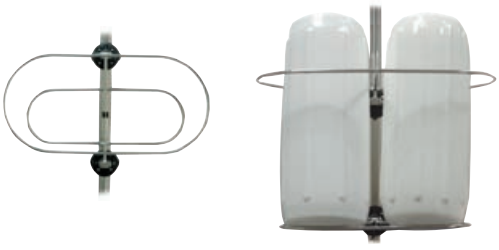
Type		Ø cm	For fenders Ø cm
double*	simple with 1 ring		
33.112.10	**33.112.40**	15	14x15
33.112.20	**33.112.50**	21	19x20
33.112.30	**33.112.60**	23	21,5x22,5

* *Double type (a set of rings may be mounted with a diameter lower to what is stated above, these will keep the **fenders raised**).*

Fender basket with stainless steel plates

For mounting with special adjustable **stainless steel and nylon** plates into the pulpit on sails or motor boats; universal size suitable for all pulpit with Ø size of 25/22mm.

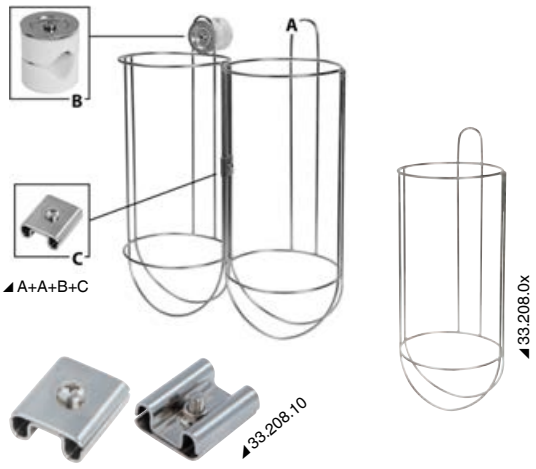
Code	⟷ cm	For fenders Ø cm	Height cm
33.204.02	31x16	2xØ15	25
33.203.02	43x21	2xØ20	30
33.202.02	52x26	2xØ25	35
33.203.03	64x21	3xØ20	30
33.202.03	78x26	3xØ25	35



Foldable fender basket

Made of mirror polished stainless steel; suitable for surface mounting or for fitting into pulpit pipe Ø size 22/32 mm; swivelling base.

Code	Upper ring cm	For fender max Ø max cm
33.205.02	30x16	2xØ15
33.205.03	43x21	2xØ20
33.205.04	52x26	2xØ25
33.206.02	48x16	3xØ15
33.206.03	64x21	3xØ20
33.206.04	78x26	3xØ25



"Easy Fender" Fender basket

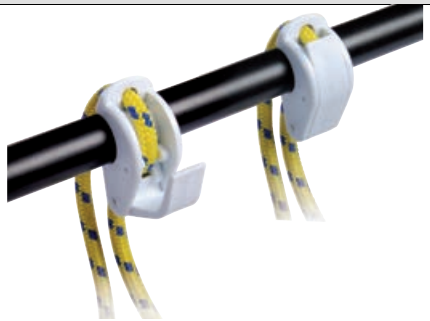
Polished AISI 316 stainless steel. It can be combined in series to contain more fenders.

Code	Type	Description	⟷ cm
33.208.01	A	Basket	Ø17x42,5(h)x32(h1)
33.208.02	A	Basket	Ø17x42,5(h)x32(h1)
33.208.03	A	Basket	Ø17x42,5(h)x32(h1)
33.208.04	A	Basket	Ø17x42,5(h)x32(h1)
33.208.05	A	Basket	Ø29x55(h)x42(h1)
33.208.12 New	B	Clamp to fix the baskets to the pulpit.	for 22/30 mm-tubes
33.208.10	C	Plate to connect the baskets	-

Bungee fender bracket

33.111.00 Four supports made of **white plastic**, **universal size**; to be used with elastic cable type 63.173.06; 63.173.08.

FENDER FLUTES



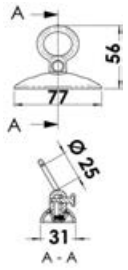
Device made of **white nylon** and used to fit and adjust the height of fenders, **without knots**. A rope of diameter 8mm should be used on the fenders.

Code	For guardrail mm	For stays mm
33.107.00	Tubes 22725	Cable 6/8

Removable fender hooking device

AISI 316

OSCULATI



Fenders can be placed and removed in a matter of seconds. Mirror-polished AISI316 stainless steel.

Code	For lines mm	⟷ mm	Ring Ø mm
33.105.00	8/12	31x77x55H	25

Leather hooking device for fenders

Removable hooking device for fenders.
Outer leather coating, it fits all handrails or tubular up to 50mm diam.
Inner woollen lining to prevent both slipping and scratching.
Wide hook&loop fasteners to close the end part.
A cam cleat fitted with polished stainless steel toothed Delrin side cheeks, suitable for 10- to 14-mm diameter ropes, adjusts the fender height whenever necessary.
Two stainless steel plates are placed inside to ensure a firm and secure fastening of the cam cleat and improve the aesthetic look of the device.
Stainless steel ring to let the rope through.

Code	Length (open) cm	Width cm	Finish
33.101.00	45	14	Leather color outside, inner lining made of black wool

Leather colours, accessory inside lining and dimensions are customizable for quantities greater than pcs. 6.

FEND FIX fender hooking device

Fenders can be easily adjusted and moved around along the guard-rail in a matter of seconds.

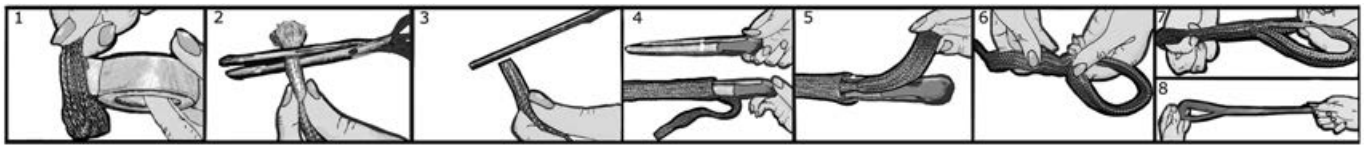
Code	For guardrail mm	Fender line Ø mm	ORDER BY BOX
33.108.00	cable 6/8	6/8	2
33.108.02	tubes 20/25	6/8	2
33.108.03	tubes 26/32	6/10	2

Polypropylene rope with 32 strands

OSCULATI

Specially designed for fastening fenders; made without a core, easy to splice without requiring any specific knowledge.

Flat bar mm	Nominal Ø mm	White	Navy blue	Grey	Black	Breaking load kg	m
3,3x18	10	**06.444.10**	**06.444.20**	**06.444.70**	**06.444.80**	350	50
4,5x20	14	**06.444.11**	**06.444.21**	**06.444.71**	**06.444.81**	600	50
5,6x25	18	**06.444.12**	**06.444.22**	**06.444.72**	**06.444.82**	850	50



OSCULATI

Lines for hanging fenders with eye, made of high-strength polyester

Polyester double braid with **hand-spliced eye**.

White	Blue	Black	Ø mm	Length m
06.444.46	**06.444.59**	**06.444.54**	6	1.5
06.444.50	**06.444.60**	**06.444.55**	8	1.5
06.444.51	**06.444.61**	**06.444.56**	10	2
06.444.52	**06.444.62**	**06.444.57**	12	2.5

FENDER-POLISH detergent

Special cleaner for soft PVC fenders, buoys, profiles and any other flexible PVC product. Warning: this product does not contain solvents like acetone, which cleans PVC temporarily and irreparably damages the surface, but it's made of chemical substances that **delicately cleanse** the PVC surface and remove traces of paint, tar, gasoil, vegetation and in particular sludge due to exhaust gas deposits on fenders that soils the boats. Spray dispenser.

Code	Package
33.023.00	750 ml

Hand-pump suitable for inflating POLYFORM fenders

Code	Litre
33.512.00	0.6

Inflator for fender profiles, buoys, inflatable mats and armbands

High-pressure inflator fitted with 4 shanks to match any fender model.

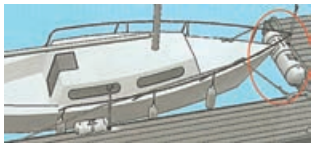
Code	Max pressure	⟷ mm
33.521.00	1.7 BAR (25 psi)	50x360

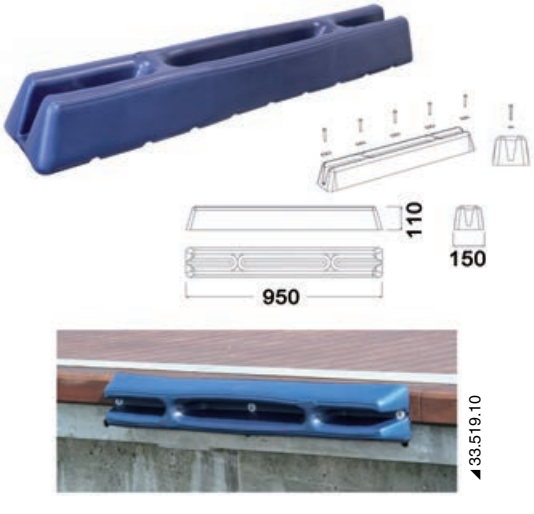
► Marina and pile fenders

White PVC inflatable marina fenders

Pontoon fitting, protect the boat against any impacts; mounted with bolts and screws through made-ready eyelets, or can be mounted with webbing straps into already existing hollows.

Code	Length cm	Section cm
33.518.01	88.5	27x27

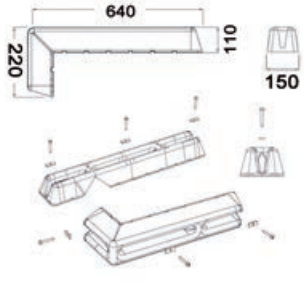




Marina and pile fenders made of solid injection moulded soft EVA

This fender ensures maximum protection against shocks and atmospheric agents. Does not leave residues or stains on boats even in case of violent shocks. Can be mounted on concrete quays and floating pontoons.

Code	Type	Colour	⟷ mm
33.519.10	SISTEMA X	Blue	950x150x110
33.519.11	SISTEMA X for corners	Blue	640+220x150x110



New FENDERTEX inflatable fender profile kit

Set of inflatable fender covers made of neoprene and fitted with spliced lines in the same colour.
It comes in a storage bag.
Easy to sell and stow.

Code	Description	Colour	No. fenders, fender covers u. ropes	Recommended for boats
33.304.01	Docking Pack C84	Black	8	43' / 52'
33.304.02	Docking Pack C104	Black	8	52' / 62'
33.304.03	Docking Pack C124	Black	10	62' / 98'

FENDERTEX

◢ 33.304.01

◢ 33.304.02

◢ 33.304.03

► Buoys

POLYFORM buoy series CC

Supplied without central rod.

Model	Color		∅		Thrust		kg	€ PACKAGE	OPTIONAL tTie-rods		Tie-rod total length	
	white	fluo redeye red	cm	in	kg	lbs			long	standard	Long	Standard
CC2	**33.603.01**	**33.602.01**	36	14	25	55	2.5	10	**33.613.01**	**33.612.01**	104	73
CC3	**33.603.02**	**33.602.02**	47	18.5	55	121	3.6	4	**33.613.02**	**33.612.02**	124	89
CC4	**33.603.03**	**33.602.03**	55	21.5	85	187	5.4	4	**33.613.03**	**33.612.03**	152	96
CC5	**33.603.04**	**33.602.04**	70	27.5	170	375	10.5	2	**33.613.04**	**33.612.04**	166	112
CC6	-	**33.602.05**	86	34	350	770	16	2	**33.613.05**	**33.612.05**	243	115

Polyform US

Blown polyethylene buoys

Specially suited for small boats or for temporary mooring.

white	yellow	red	Floating l	Height cm
33.170.00BI	**33.170.00GI**	**33.170.00RO**	10	39

Two-cone blown polyethylene buoys

Fitted with double ring on one side; available colours: **orange, white or yellow**.

Color			Litre size	⟷ cm
orange	white	yellow		
33.171.10AR	**33.171.10BI**	**33.171.10GI**	5	22x49
33.171.11AR	**33.171.11BI**	**33.171.11GI**	9	27x60
33.171.12AR	**33.171.12BI**	**33.171.12GI**	15	32x80
33.171.13AR	**33.171.13BI**	**33.171.13GI**	55	50x103

◢ 33.171.12

Blown polyethylene buoys with through-rod

Filled with expanded polyurethane; swivelling **stainless steel** rings; available colours; orange or white.

Color		Litres	Useful thrust kg	Total floatability kg	Rod Ø mm	⟷ cm
white	red					
33.168.01BI	**33.168.01RO**	15	13	20	13	32x80
33.168.02BI	**33.168.02RO**	55	28	50	13	50x103

OSCULATI

Two-cone reinforced ABS bicoloured buoy

Colours **white and red**; fitted with central seal made of **black soft PVC**; **very sturdy** central rod. Filled with polyurethane foam, resistant to hydrocarbons, **unsinkable**; available sizes according to the buoyancy litre capacity.

Code	Litre size	Ø cm	Height cm	Pole Ø mm
33.171.20	18	33	63	12
33.171.35	37	45	75	12
33.171.63	53	51	82	12
33.171.99	85	60	98	12

OSCULATI

White/red ABS buoy

Filled with polyurethane, unsinkable, fitted with **steel** central rod.

Code	Ø mm	Thrust kg	Pole Ø mm
33.172.13	700	125	18
33.172.14	1000	355	18

TAPES MARINE reflective self-adhesive tape

Ideal for marking any obstacles or over-hang areas; can be used on boat-trailers, tenders, life jackets, buoys, IOR signals or any other object. Available colours: **red or white**. From 15/02/85, the use is required for all buoys in Lombardy waters under Order 8862/83.

Color		Roll	ORDER BY BOX
white	red		
33.110.00BI	**33.110.00RO**	2.5 m x 25 mm	2

Polythene buoys fitted with central hole

Suitable for fences or run enclosures; available colours: white, orange or yellow.

white	yellow	red	Ø cm	Internal bore Ø mm	Height cm	Thrust kg
33.136.00BI	**33.136.00GI**	**33.136.00RO**	17	20	14.5	1.7
33.135.20BI	**33.135.20GI**	**33.135.20RO**	26	30	19	8.5

► Diver and racing buoys

Racing buoy

Inflatable **PVC** cylinder, **bright orange or yellow colour**, designed to signal turns in sailing races.

Code	⟷ cm	Color
33.174.00	80 Ø x120 h	orange
33.174.01	80 Ø x120 h	yellow

◢ 33.174.00

◢ 33.174.01

Giant racing buoys

Giant inflatable **PVC** cylindrical buoy designed to signal turns in sailing races. Fitted with two fast inflating/deflating valves and 4 lower mooring fairleads for weight even distribution. One or two transparent side pocket for logos and advertising messages.

Code	⟷ cm	No of pockets	Colour	OPTIONAL net
33.175.01	90 Ø x 150 h	1	Orange	-
33.175.11	90 Ø x 150 h	1	Yellow	-
33.175.02	150 Ø x 160 h	2	Orange	**33.175.05***
33.175.22	150 Ø x 160 h	2	Yellow	**33.175.05***

* *Optional levilene anchoring net where the buoy can be placed during inflation for a better pull distribution once in water.*

◢ 33.175.05

◢ 33.175.02/22

◢ 33.175.01/11

◢ 33.175.01

◢ 33.175.22

Inflatable diver signal buoy

Fitted with inflatable flag.

Code	Version	Ø cm	Total height cm	Hooking rope OPTIONAL
33.166.01	"MINI"	38	50	**33.167.01**
33.166.03	"BIG"	38	63	**33.167.01**

◢ 33.166.01

◢ 33.166.03

"Levilene" floating rope suitable for diver signal buoy

Code	⟷
33.167.01	4 mm x 20 m

► Fixed boat hooks

OSCULATI

Basic boat hook

Fitted with **anodized aluminium** pole and handle.

Length cm			Handle Ø mm
130	160	210	
34.459.13	**34.459.16**	**34.459.01**	25

OSCULATI

Premium boat hook

Very sturdy grip, **anodized aluminium** pole with rubber handle.

Code	Length cm	Handle Ø mm	Spare hook
34.171.50	220	30	34.171.40BI

Boat hook

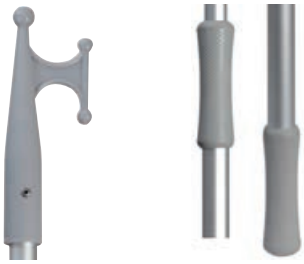
With **mirror-lacquered wooden** pole.

Code	Hook material	Total length cm	Stick Ø mm	Spare hook
34.459.11	Chromed brass	200	30	**34.171.30**
34.459.08	Stainless steel	200	30	**34.171.35**
34.459.12	Chromed brass	260	36	**34.171.20**
34.459.09	Stainless steel	260	36	**34.171.25**

► Telescopic boat hooks

Telescopic boat hook

Grey nylon boat hook, anodized aluminium handle, double knob.



Code	Min/max length cm	Pipes Ø mm
34.458.90	120/212	25/30

COLOR telescopic boat hook

Grey nylon hook, epoxy resin coated aluminium handle with double knob grip.

Code	Colour	Min/max length cm	Pipe Ø mm
34.458.80	White	120/210	25/30
34.458.81	Blue	120/210	25/30

Aluminium telescopic boat hook

White nylon hook, **anodized aluminium** pole and white polished rubber handle; very light, it floats, adjustable in all positions with its special cam.

Code	Length min/max cm	Pipe Ø mm
34.459.00	100/200	25/30
34.459.02*	60/100	25/30

* *Suitable for safety kits.*

OSCULATI

TRI-TELESCOPIC boat hook

Made of **mirror polished anodized aluminium**, with nylon hook and handle; very sturdy, made with 3 sturdy concentric tubes; can be adjusted in any position with its cam.

Code	Length min/max cm	Pipe Ø mm
34.460.00	115/285	25/30/35

OSCULATI

Professional telescopic boat hook

Made of **anodized aluminium**, natural finish **(includes hook).** Its rotation locking device enables fast locking at any point, very sturdy.

Code	Version	Length min/max cm	Tube Ø mm
34.915.41	Bi-telescopic (2 tubes)	120/209	25/29
34.915.42	Tri-telescopic (3 tubes)	105/245	25/29/32

◢ 34.915.41

◢ 34.915.42

OSCULATI

◢ 34.915.41 ◢ 34.915.42 ◢ 34.915.41/42 ◢ 34.915.41/42

Professional telescopic boat hook with roller

Made of anodized aluminium, **includes hook.**

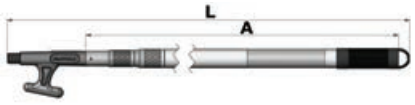
Code	Model	Length min/max cm	Shaft section Ø mm
34.916.41	Bi-telescopic	120/209	25/29
34.916.42	Tri-telescopic	105/245	25/29/32

OSCULATI

Professional boat hook with rubber head

Made of natural anodized aluminium with anti-skid bi-component technolpolymer hook. Quick lock in all positions via rotation.

Code	Version	A min-max cm	L min-max cm	Pole Ø mm
34.917.42	tri-telescopic (3 poles)	94-244	110-260	25/29/32
34.917.43	tri-telescopic (3 poles)	134-366	150-382	25/29/32



► Boat hooks

Black polypropylene boat hook

Very sturdy grip.

white	black	Hole Ø mm
34.171.40BI	34.171.40NE	30

Boat hooks in chromed brass

Code	Ø Hole mm	For wooden rods mm
34.171.20	32	35
34.171.30	27	30

Stainless steel AISI 316 boat hooks

AISI 316

Code	Hole mm	For wooden rods mm
34.171.25	34	35/36
34.171.35	28	30

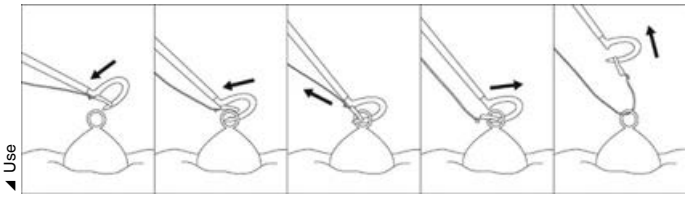
OSCULATI

Telescopic boat hook for buoy mooring

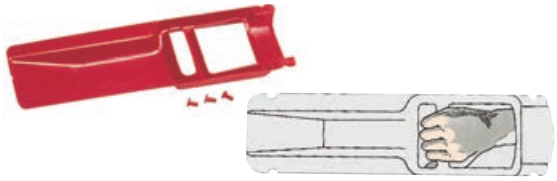
This boat hook also allows the operator to hook the eye of the buoy and retrieve the mooring line with a single movement.

Technical specification:
- Boat hook made of a special high-strength technopolymer;
- Anodized light alloy stick;
- Telescopic (105/245 cm).

Code	Min/max length cm	Tube Ø mm
34.916.43	110/250	25/29/32



► Oars and paddles



ABS paddles

34.459.30 Meets **safety regulations required for boats that navigate 1 mile from the coast; specially designed for surf-boards; can be stacked**; **clip-on** mounting with 3 special pins.

Mini telescopic emergency paddle

Paddle and handle made of bright orange plastic to be easily visible, anodized aluminium pole. Especially suited for life rafts and small tenders

Code	Pole Ø mm	⟷ cm
34.459.18	22-25	53.5 x 106

Telescopic mini paddle

Paddle and handle made of black plastic, anodized aluminium pole. Epoxy-resin coated.

Code	Min/max length cm	Pole Ø mm
34.459.19	70/118	29-25

OSCULATI

Telescopic paddle

White ABS blades, **white nylon** boat hook, **anodized aluminium** handle. Practical and very sturdy.

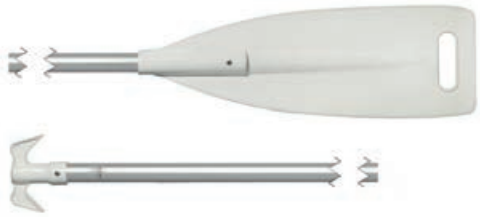
Code	Handle Ø mm	Length min/max cm
34.459.20	30	90/160

Paddles with white ABS blade and nylon boat hook handle

Aluminium pole, very functional and sturdy.

Code	Length cm	Handle Ø mm
34.459.24	130	30
34.459.25	160	30

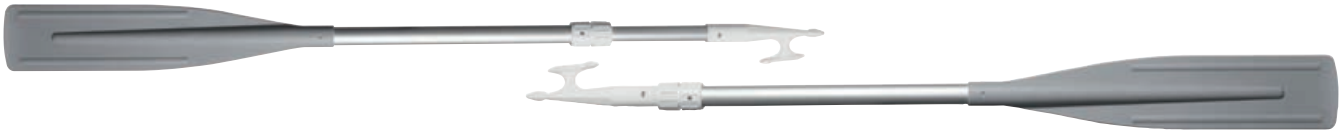
OSCULATI



Demountable telescopic oar with boat hook

Impact-resistant **plastic** blade, silver anodized aluminium pole.

Code	Length cm		Ø mm
	min	max	
34.452.20	80	180	30/35



Anodized aluminium demountable oars

Fitted with **white plastic** blade. Version with two similar slugs when disassembled.

Code	Length cm			Ø mm
	tot	ball	handle	
34.453.13	132	67	75	35
34.453.16	160	92	75	35
34.453.19	180	102	85	35

OSCULATI

Anodized aluminium oars

Fitted with **white plastic** blade, pole and handle.

Code	Length cm	Ø mm
34.454.01	190	35
34.454.02	160	35

OSCULATI

Assembling oars, suitable for inflatable boats

Impact-resistant **grey plastic** blade, **aluminium** anodized silver pole.

Code	Length cm			Ø mm
	tot	blade	handle	
34.452.13	132	55	85	35
34.452.15	147	55	100	35
34.452.17	167	55	120	35

Demountable canoe/kayak paddles

Made of anodized aluminium with ABS pole

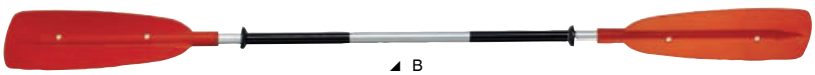
Code	Length mm	Handle Ø mm	Technical characteristics
34.470.11	150	28	It can be disassembled into 2 pieces
34.470.12	220	28	It can be disassembled into 4 pieces, the paddles can rotate by 75°

◢ 34.470.11

◢ 34.470.12

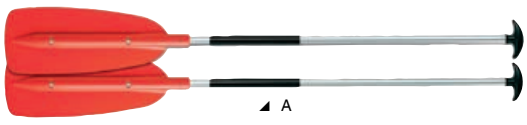
Twin canoe jointed paddles

34.470.03 Can be used as **two single paddles** 150 cm (A) each or 220 cm (B) long if used as a **double** kayak paddle.



◢ B

SCOPREGA look beyond



◢ A

Canoe/kayak paddles

Made of **anodized aluminium** with **ABS** blades.

Code	Type	Length cm	Handle Ø mm
34.470.01	simple	150	30
34.470.02	double, blade at 90°	210	30

Professional kayak paddle

Fitted with oval **anodized aluminium** pole, perfect grip.

Code	Version	Length cm	Pipe Ø mm
34.471.02	double	210	32

Aluminium paddle for SUP

Lever-adjustable length, double locking system for increased stability, made up of 3 detachable parts for easier stowage. Remove the central part to assemble a paddle for children.

Code	Length cm	Ø mm	
34.474.00	175/215	29	1160

Laminated wood paddles

Mirror lacquered polyurethane coating, with rubber handle.

Code	Length cm
34.447.00	141
34.447.02	157

Evaporated beech jointed oars

Very sturdy, lacquered with polyurethane, they can be **taken apart** at the **stainless steel** joint.

Code	Length m	Ø mm
34.456.25	2.5	46
34.456.30	3	46

Wooden paddles

Glass lacquered polyurethane; very sturdy, fitted with plastic collar; fine finish.

Code	Version	Length m	Handle Ø mm
34.458.22	Fir with curved blade*	2.2	46
34.458.25	Fir with curved blade*	2.5	46
34.455.20	Steamed beech	2	46
34.455.22	Steamed beech	2.2	46
34.455.25	Steamed beech	2.5	46
34.455.30	Steamed beech	3	46
34.446.18	Mahogany with curved blade	1.8	36
34.446.20	Mahogany with curved blade	2	36
34.446.22	Mahogany with curved blade	2.2	36
34.446.24	Mahogany with curved blade	2.45	36

* *It's a true oarsman's paddle*

Ash Jointed Oars

Made of **beech wood**, fitted with **stainless steel** snap-on joint. Very sturdy, superior finish.

Code	Length m	Ø mm
34.454.16	1.65	36
34.454.19	1.90	36
34.454.21	2.10	36

► Hooks and clips for oar-holders and general purpose applications

Plastic circlips

Clips for holding oars or handles, heavy version.

Ø mm	white	black	ORDER BY BOX
20	**34.354.03**	**34.355.03**	10
25	**34.354.04**	**34.355.04**	10
30	**34.354.05**	**34.355.05**	10
35	**34.354.00**	**34.355.00**	10
40	**34.354.01**	**34.355.01**	10
45	**34.354.02**	**34.355.02**	10

Nylon circlip

To be mounted with 2 screws.

Ø mm	white	black	ORDER BY BOX
17/23	**34.354.25**	**34.355.25**	10
22/28	**34.354.28**	**34.355.28**	10
27/35	**34.354.34**	**34.355.34**	10
34/45	**34.354.44**	**34.355.44**	10

Spring clips, suitable for holding poles, oars, boat awnings, boat hooks, fishing rods, etc

Made of UV stabilized **black Santoprene**, sturdy and very elastic.

Ø mm	Black	White	ORDER BY BOX
16/18	**34.358.16**	**34.358.17**	10
19/20	**34.358.19**	**34.358.18**	10
22/24	**34.358.22**	**34.358.23**	10
25/26	**34.358.25**	**34.358.26**	10
28/30	**34.358.28**	**34.358.29**	10
37/40	**34.358.38**	**34.358.39**	10
60/65*	**34.358.60**	**-**	2

* *Designed for table leg fastening.*

TRUDESIGN clips

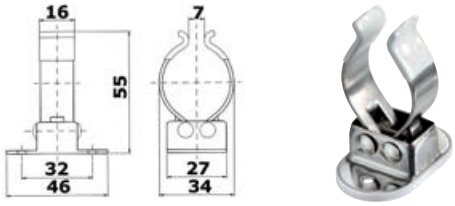
TruDesign clips include a standard size **base** that can either be **screwed** or glued.
The clip snaps into the base; pinch its arms together to unclip and detach it from the base.
The base has a slot for straps for tying down cables and wires.
Base made of composite glassreinforced Nylon, clips made of Acetal copolymer (POM) resin.

Ø mm	Black	Description	ORDER BY BOX
13/16	**34.360.13**	Clip	5
20/27	**34.360.20**	Clip	5
28/37	**34.360.28**	Clip	5
38/50	**34.360.38**	Clip	5
-	**34.360.00**	Fixing base	10

Stainless steel circlip

To lock boat hooks, fishing-rods, etc.. Spring adjustable Ø.

Code	For pipe Ø mm
34.357.00	30/35



Mirror polished stainless steel holding hooks for boat hooks

34.212.30 Suitable for holding any type of boat hooks with Ø from 22mm to 32mm; sold in **pairs**.

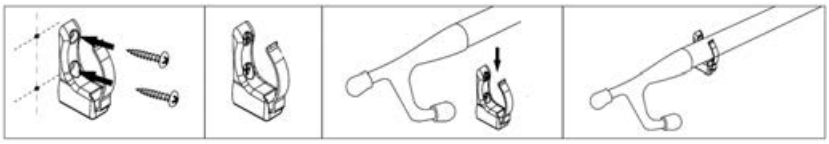
Stainless steel spring clips, suitable for holding boat hooks, fishing poles, etc.

34.356.00 Fits 25/32 mm poles, sold in **pairs**.

Spring clips for fixing boat hooks

Stainless steel + nylon

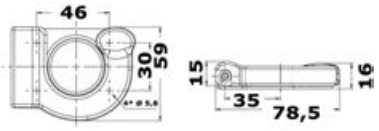
Code	Universal for Ø mm	Kit
34.359.00	25/35	2 pcs



Folding Storage bracket for boat hooks/fishing rods

Made of electro-polished S.S., with foldable nylon support

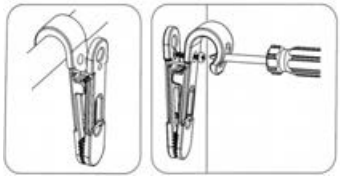
Code	Base mm	For boat hooks Ø mm
34.357.20	55x71	32/35



Multipurpose fixing clip

It can be fixed to a bulkhead by a screw, or snap-hooked to the pulpit (for pipes Ø 22/28 mm). It can be used to hang clothes to dry, ropes, electric cables and any other object. Made of white nylon + stainless steel spring.

Code	ORDER BY BOX
34.358.00	4



Super clothes pegs

Made of plastic, their ingenious safety system avoid the peg from opening even in the most difficult situation. Stainless steel internal spring.

Code	Color	⟷ mm	ORDER BY BOX
34.358.20	white	100x33	8

► Sockets and rowlocks

Plastic Collars for oars

Code	inner Ø mm
34.565.01	34/35
34.565.02	39/40
34.565.03	43/44
34.565.04	53/54

JARNFORDLINGS Delrin rowlocks

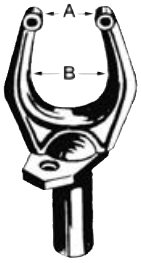
Snap-on fitting.

Code	A mm	B mm	Nylon bushing	
			for recess mount - OPTIONAL	for bulkhead mount - OPTIONAL
34.435.01	38	45	**34.435.03**	**34.435.04**
34.435.02	42	56	**34.435.03**	**34.435.04**

Sockets for nylon rowlocks

Flush mount	Wall mount	For rowlocks
34.435.03	**34.435.04**	34.435.01-02

Black nylon rowlock



Floating, type “Rio 3,10/4,10”; includes bayonet socket.

Code	For legs Ø mm	A mm	B mm
34.437.00	12	32	46

Nylon rowlocks

Very sturdy and light, white colour.

Code	Stem Ø mm	A mm	B mm
34.432.00	15	34	53

Rowlock for paddle boats

Made of **chromed brass**.

Code	Description	Fork Ø mm	Stem Ø mm
34.170.14	rowlock	64	15

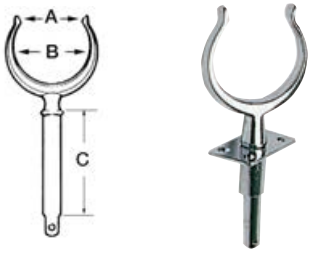
Chromed brass rowlock, suitable for small fishing boats

Includes bushing with 2 holes 34.430.13.

Code	Total length mm	Pin mm
34.150.01	150	12

Chromed brass rowlocks

Just the rowlock.



Code	Ø stem mm	⟷ mm			Bushing OPTIONAL
		A	B	C	
34.430.00	12	38	48	68	34.170.16; 34.430.13
34.170.11	12	41	53	72	34.170.16; 34.430.13
34.170.12	14	41	59	72	34.170.17; 34.430.14; 34.430.15
34.193.00	14	51	68	98	34.170.17; 34.430.14; 34.430.15

Side Socket for chromed brass rowlocks

Code	Hole mm	⟷ mm	For rowlocks
34.170.16	12	50x38x21	34.430.00; 34.170.11
34.170.17	14	50x38x21	34.170.12; 34.190.00

Socket for chromed brass rowlocks

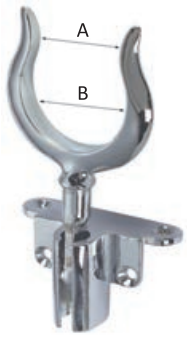
Code	Hole	⟷ mm	For rowlocks
34.430.13	2	60x23	34.430.00; 34.170.11; 34.150.01
34.430.14	4	60x35	34.170.12; 34.193.00
34.430.15	2	80x30	34.170.12; 34.193.00

Chromed brass rowlock with blind socket

Includes **blind** socket, specially suited for plastic boats with interspace; the rowlock has a bayonet fitting; this product is a perfect alternative to most plastic rowlocks that break easily; the socket has a wide area for covering any pre-existing plastic socket holes.

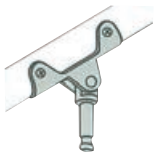
Code	Stem Ø mm	A mm	B mm
34.160.10	12	40	52
34.160.11	12	45	58

Special chromed brass rowlock



Foldable inner stringer, suitable for all types of boats, convenient, trouble-proof.

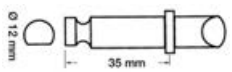
Code	Stem Ø mm	A mm	B mm
34.433.00	12	42	50



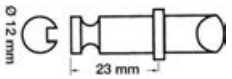
Chromed brass rowlocks for inflatable tender

For inflatable's removable oars for rubber row boat

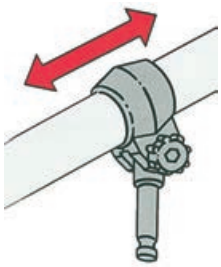
Code	Pin length mm	Type of dinghy
34.430.10	35	Zodiac
34.430.12	23	Lomac, Bat, Radial, Nova, Reeves, Axemar, Asso and Nuova Jolly



◢ 34.430.10



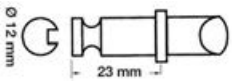
◢ 34.430.12



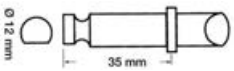
Plastic rowlocks for inflatable tenders

Fitted with **brass** snap-on pin for paddle Ø35 mm.

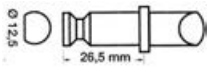
Code	Ø mm	Length mm
34.430.06	12	35
34.430.08	12.5	26.5
34.430.09	12	23



◢ 34.430.09



◢ 34.430.06



◢ 34.430.08

► WINDEX and wind indicators

WINDEX wind indicator

Wind indicator fitted with vanes, mounted on a hard stone suspension for sliding movement.
Very accurate and stable, fitted with a wind angle indicator. It comes in a display package.

Code	Type	Vane mm	Resin base
35.388.01	"DINGHI" and sports boat	230	
35.388.02	"15" for cruisers up to 11 m	380	**35.388.06* OPTIONAL**
35.388.03	for boats up to 15 m	584	

* *To mount WINDEX 15 on the side or on the top of the mast.*

Small resin base

Mount WINDEX 15 on the side or on the top of the mast.

Code	For wind vane
35.388.06	**35.388.02**

Wind indicator

To be mounted on the side of the mast with a bayonet bracket. Counter-weight balance; indicates minimal wind; framed fag to avoid inaccurate indications.

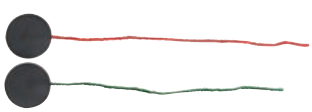
Code	Material	⟷ windward mm
35.387.00	Stainless steel with nylon flag	160x100

Wind indicator strips

Made of **nylon** with hook&loop fastener, red/green pairs, packed in cardboard displays.

Code	Type	ORDER BY BOX
35.660.01	normal	1 red + 1 green
35.660.02	large	1 red + 1 green

PSP Tell Tales wind indicator strips for sail trimming



Permanent wind indicator strips.

Code	Package contains
35.661.00	16 x self-adhesive discs, 8 x red strips, 8 x blue strips, 16 x self-adhesive strips.

PSP Tell Tales wind indicator strips for sail trimming

Permanent wind indicator strips

Code	Description
35.661.01	8 x 45-mm Ø self-adhesive dacron discs + 8 x 15-mmx150-mm nylon strips.

► Flags, "Gran Pavese" flags and burgees

Italian ensign made of heavy polyester

Indelible colour, intense tone; sewn internally with nylon thread, fitted with the coat-of-arms of the Merchant Navy (on both sides) with bright clear colours; include nylon line for mounting; top quality product.

Code	⟷ cm	Code	⟷ cm	Code	⟷ cm
35.453.01	20x30	**35.453.05**	60x90	**35.453.08**	130x200
35.453.02	30x45	**35.453.15**	70x100	**35.453.09**	150x225
35.453.03	40x60	**35.453.06**	80x120		
35.453.04	50x75	**35.453.07**	100x150		

FRENCH flag Kit

Kit includes the three required flags N+C+ French flag.

Code	⟷ cm	Category
35.446.10	30x40	3a/4a/5a
35.446.20	50x75	2a/1a

Italian ensign made with light polyester

Fitted with the coat-of-arms of the Merchant Navy.

Code	⟷ cm
35.459.01	20x30
35.459.02	30x45

Italian courtesy flag made of polyester

Without the coat-of-arms of the Merchant Navy.

Code	⟷ cm
35.453.00	20x30

Self-adhesive Italian ensign

Fitted with the coat-of-arms of the Merchant Navy, on both sides.
Polished crystal model, excellent finish, fast colours.

Code	⟷ cm
35.452.80	11x16
35.452.81	20x30
35.452.83	15x22

◢ 35.443.01/02 (Sardinia)

◢ 35.451.01/02 (Corsica)

◢ 35.427.01/02 (Sicily)

◢ 35.418.01/02 (Elba)

◢ 35.425.01/02 (Tuscany)

Italian Regional flags

Made of **polyester bunting**, printed with indelible colours.

Region	20x30 cm	30x45 cm
Corsica	**35.451.01**	**35.451.02**
Elba	**35.418.01**	**35.418.02**
Sardinia	**35.443.01**	**35.443.02**
Sicily	**35.427.01**	**35.427.02**
Tuscany	**35.425.01**	**35.425.02**

Venetian Burgee

Made of polyester.

12x24 cm	22x44 cm	30x60 cm
35.479.01	**35.479.02**	**35.479.03**

European Union flag

Made of **polyester**, indelible colours.

20x30 cm	30x45 cm	Type
35.440.01	**35.440.02**	EU + Italy (corner)

Flag - Europe

Made of **polyester**, indelible colours.

20x30 cm	30x45 cm	Type
35.461.01	**35.461.02**	European Union

Flag - Austria

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.455.01	35.455.02	35.455.03	35.455.04	35.455.05	35.455.06

Flag - Belgium

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.471.01	35.471.02	35.471.03	35.471.04	35.471.05	35.471.06

Flag - Croatia

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.457.01	35.457.02	35.457.03	35.457.04	35.457.05

Flag - Denmark

Made of polyester, indelible colours.

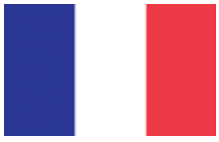
20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.431.01	35.431.02	-	-	-

Flag - Finland

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.433.01	35.433.02	35.433.03	35.433.04	35.433.05	-

Flag - France



Made of polyester, indelible colours.

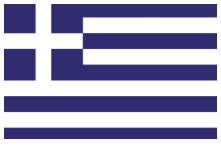
20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.456.01	35.456.02	35.456.03	35.456.04	35.456.05	35.456.06

Flag - Germany

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.454.01	35.454.02	35.454.03	35.454.04	35.454.05	35.454.06

Flag - Greece



Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.452.01	35.452.02	35.452.03	35.452.04	35.452.05

Flag - UK merchant

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.449.01	35.449.02	35.449.03	35.449.04	35.449.05	35.449.06

Flag - Cayman Islands - merchant

For vessels registered in the CI

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.468.01	35.468.02	35.468.03	-	-

Flag - British Virgin Islands - merchant

For vessels registered in the BVI

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
-	35.466.02	35.466.03	-	-

Flag - Malta

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.439.01	35.439.02	35.439.03	35.439.04	-	-

Flag - Principality of Monaco

Polyester fabric printed in indelible hues.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.487.01	35.487.02	35.487.03	35.487.04	35.487.05	35.487.06

Flag - Norway

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.432.01	35.432.02	35.432.03	-	-

Flag - The Netherlands

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.448.01	35.448.02	35.448.03	35.448.04	35.448.05	35.448.06

Flag - Poland

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.463.01	35.463.02	35.463.03	-	-

Flag - Portugal

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.437.01	35.437.02	35.437.03	35.437.04	-	-

Flag - Russia

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.460.01	35.460.02	35.460.03	35.460.04	35.460.05	35.460.06

Flag - Slovenia

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.441.01	35.441.02	35.441.03	35.441.04	35.441.05

Flag - Spain

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.450.01	35.450.02	35.450.03	35.450.04	35.450.05	-

Flag - Sweden

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.429.01	35.429.02	35.429.03	35.429.04	35.429.05	-

Flag - Switzerland

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm	80x120 cm
35.458.01	35.458.02	35.458.03	35.458.04	35.458.05	35.458.06

Flag - Tunisia

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.438.01	35.438.02	35.438.03	-	-

Flag - Turkey

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.442.01	35.442.02	35.442.03	35.442.04	-

Flag - Ukraine

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.462.01	35.462.02	35.462.03	35.462.04	35.462.05

Flag - Hungary

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.465.01	35.465.02	35.465.03	-	-

Flag - The USA

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.444.01	35.444.02	35.444.03	35.444.04	-

New Flag - Albania

Made of polyester, indelible colours.

20x30 cm	30x45 cm	40x60 cm
35.474.01	35.474.02	35.474.03

Scuba diving flag

Made of **polyester**.

20x30 cm	30x45 cm	40x60 cm	50x75 cm	70x100 cm
35.480.01	**35.480.02**	-	-	-

Signal flags made of woolen fabric

Sizes 20x30 cm. Wool material.

Code	Letter	Version	Meaning
35.445.04	A	Underwater	“Diver in immersion. Keep far away and sail slow.”
35.445.01	C	-	"Positive."
35.446.01	N	-	"Negative."
35.445.05	Q	-	“My boat is undamaged. Request for free circulation.”

"Gran Pavese" flags set

40 piece set with international navigation codes, made of **polyester**, printed with bright colours, includes rope.

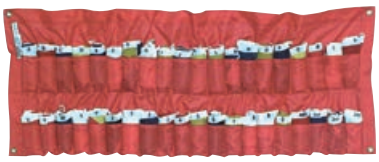
Code	⟷ cm	Type
35.453.10	14x20	Pre-binded flags in single festoon
35.453.11	20x30	Single flags with buttonhole and rope
35.453.12	30x45	Single flags with buttonhole and rope

Pocket container for "Gran Pavese" flags

35.453.13 Made of **100% cotton**; designed to store all Gran Pavese flags (Art. 35.453.10/11), maximum size of 20x30cm.

40 "Gran Pavese" flags with bag

35.453.20 The flags comply with the International Navigational Code; each set includes rope, mounting toggle and clear letters sewn on the side; comes in a foldable bag; flag size 30x42cm.



International code table, printed on plywood board

Made of marine plywood.

Code	⟷ cm
35.452.89	40x29

Type-approved protest flag

Made of **nylon**, tytpe-approved, backstay mounting with hook&loop fastener, red colour, letter "B".

Code	⟷ cm
35.660.80	20x30

► Flag poles

Flagstaff

Stainless steel conical section.

Code	Length cm	For flags cm	Ø mm	Base OPTIONAL
35.195.00	40	max 20x30	14	**35.390.03; 35.390.11**
35.196.00	60	max 40x60	20	**35.390.12**

Flag pole made of AISI316 stainless steel

Mirror-polished. Ogive terminal.

Code	Length mm	Ø mm	Optional base
35.393.01	610	25	**35.390.13**
35.393.02	750	25	**35.390.13**
35.393.03	900	25	**35.390.13**
35.393.04	1200	25	**35.390.13**

ARC teak-wood flagstaff

ORIGINAL TEAK End knob.

Code	Length cm
71.607.50	60
71.607.52	75
71.607.54	90
71.607.56	120

35.390.13 *Stainless steel flag pole*

Spare stainless steel base

Code	For poles Ø mm	It matches poles	Material
35.390.03	14	**35.390.00; 35.195.00**	Chromed plastic
35.390.11	14	**35.390.02; 35.195.00**	AISI316 stainless steel
35.390.12	20	**35.390.01; 35.392.01; 35.196.00**	AISI316 stainless steel
35.390.13	25	**35.390.10; 35.392.02; 35.392.03; 35.392.04; 71.607.50; 71.607.52; 71.607.54; 71.607.56**	AISI316 stainless steel

Stainless steel conical flagstaffs

Mirror polished finish, includes **base**;
fitted with adjustable flag mounting rings; supplied with top rubber bumper; very sturdy.
All models include butterfly locking nut. Raked to 60°.

Code	Length cm	For flag cm	Ø mm	Base made of	Spare base	Just the pole
35.390.00	40	max 20x30	14	chromed ABS	**35.390.03**	**35.195.00**
35.390.02	40	max 20x30	14	stainless steel	**35.390.11**	**35.195.00**
35.390.01	60	max 40x60	20	stainless steel	**35.390.12**	**35.196.00**
35.390.10	80	max 60x90	25	stainless steel	**35.390.13**	-
35.390.15	120	max 80x120	25	stainless steel	**35.390.13**	-

Flagstaff sleeve socket

AISI 316 Designed for mounting onto a pushpit rail; made of **mirror polished AISI 316 stainless steel**.

Code	Pulpit pipe Ø mm	For poles Ø mm
35.394.02	25	20/25
35.394.03	30	20/25

Mirror polished stainless steel flagstaff with hook flag fitting

PATENT **AISI 316**

Stainless steel terminal ball, **stainless steel** ends and eyelets, suitable for flags.

Code	Length mm	Ø mm	Base OPTIONAL
35.392.01	610	20	**35.390.20**
35.392.02	750	25	**35.390.25**
35.392.03	900	25	**35.390.25**
35.392.04	1200	25	**35.390.25**

OSCULATI

Flag poles, wing-shape section

PATENT

Made of mirror polished AISI 316 stainless steel.
Bayonet fixing to our bases 35.390.20/25.

AISI 316

Code	Length mm	Section mm	Clamp holders
35.392.50	610	38x24	**35.390.20**
35.392.51	750	38x24	**35.390.20**
35.392.52	900	45x29	**35.390.25**

OSCULATI

Flush recessed flagstaff socket

AISI 316

Made of **mirror polished AISI 316 stainless steel**; **clip-on** base fitting.

PATENT

Code	Base mm	Depth mm	For poles
35.390.20	60x45	40	**35.392.01**
35.390.25	60x45	40	**35.392.02; 35.392.03; 35.392.04**

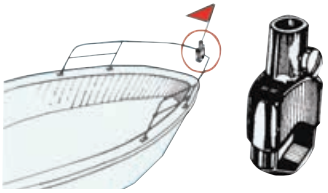
OSCULATI

Flagstaff, pushpit or handrail mounting

Made of **mirror polished stainless steel**; includes flag mounting rings and unbreakable terminal ball.

Code	Length cm	For pipes/handrails Ø mm
35.391.00	40	22/25

Flagstaff socket, pushpit or handrail mounting



Made of **chromed brass**, **clamp** fitting; universal for all poles with Ø of 22/25mm.

Code	Pole Ø mm
35.191.14	14
35.191.20	20

Flagstaff socket with reduced rake

Made of **chromed brass**, 10° inclination, the other bases from this series have a 30° inclination.

Code	For poles Ø mm
35.158.01	20
35.158.02	25

► Key rings and document holders

◢ 35.825.98 - example of customised key ring with 1-color print

◢ 35.825.99 - example of customised key ring with 4-color print

Soft rubber floating key ring

Fitted with **brass** chain. Convenient and practical, it holds two large keys or three small ones.
Logo customized printing.

Code	Description/color	Screen printing	ORDER BY BOX
35.825.00	Mixed colors	Standard	10
35.825.01	White	Standard	10
35.825.02	Blue	Standard	10
35.825.03	Red	Standard	10
35.825.04	Yellow	Standard	10
35.825.05	Green	Standard	10
35.825.07	Orange	Standard	10
-	- -	-	-
35.825.98*	**1-color print** customized key rings. Add code of printing system 35.825.91	Customized	300
35.825.99	**4-color print** customized key rings	Customized	200

* **35.825.91** *Printing system.*

◢ 35.823.98 - example of custom-made 1-colour print key ring

◢ 35.823.99 - example of custom-made 4-colour print key ring

Soft foam motorboat key rings, motorboat version

With brass chain. Very convenient, they can keep 2 large keys or 3 small ones.
The corporate Logo can be printed on all models.

Code	Description/color	Screen printing	ORDER BY BOX
35.823.00	Mixed colors	Standard	10
35.823.01	White	Standard	10
35.823.02	Blue	Standard	10
35.823.03	Red	Standard	10
35.823.04	Yellow	Standard	10
35.823.05	Green	Standard	10
35.823.07	Orange	Standard	10
35.823.98*	**1-color print** customized key rings. Add code of printing system 35.825.91	Customized	300
35.823.99	**4-color print** customized key rings	Customized	200

* **35.825.91** *Printing system.*

◢ 35.822.98 - example of custom-made 1-colour print key ring

◢ 35.822.99 - example of custom-made 4-colour print key ring

Soft foam key ring, Sailing Boat model

With **brass** chain. Very comfortable and convenient, they hold 2 large keys or 3 small ones.
They can all be printed with the customer's logo.

Code	Description/color	Screen printing	ORDER BY BOX
35.822.00	Mixed colors	Standard	10
35.822.01	White	Standard	10
35.822.02	Blue	Standard	10
35.822.03	Red	Standard	10
35.822.04	Yellow	Standard	10
35.822.05	Green	Standard	10
35.822.98*	**1-color print** customized key rings. Add code of printing system 35.825.91	Customized	300
35.822.99	**4-color print** customized key rings	Customized	200

* **35.825.91** *Printing system.*

Soft foam key rings, Outboard model

With **brass** chain. Very comfortable and convenient, they hold 2 large keys or 3 small ones.
They can all be printed with the customer's logo.

Code	Design of the outboard brand	Screen printing	ORDER BY BOX
35.824.00	Mixed	Standard	10
35.824.01	Evinrude	Standard	10
35.824.02	Johnson	Standard	10
35.824.03	Mercury	Standard	10
35.824.04	Yamaha	Standard	10
35.824.06	Suzuki	Standard	10
35.824.07	Honda	Standard	10
35.824.08	Tohatsu	Standard	10
35.824.98*	**1-color print** customized key rings. Add code of printing system 35.825.91	Customized	300
35.824.99	**4-color print** customized key rings	Customized	200

* **35.825.91** *Printing system.*

◢ 35.824.98 - example of custom-made 1-colour print key ring

◢ 35.824.99 - example of custom-made 4-colour print key ring

Soft foam key ring, Anchor model

With **brass** chain. Very comfortable and convenient, they hold 2 large keys or 3 small ones.
They can all be printed with the customer's logo.

Code	Description/color	Screen printing	ORDER BY BOX
35.821.00	Mixed colors	Standard	10
35.821.01	White	Standard	10
35.821.02	Blue	Standard	10
35.821.03	Red	Standard	10
35.821.04	Yellow	Standard	10
35.821.05	Green	Standard	10
35.821.06	Fuchsia	Standard	10
35.821.07	Orange	Standard	10
35.821.98*	**1-color print** customized key rings. Add code of printing system 35.825.91	Customized	300
35.821.99	**4-color print** customized key rings	Customized	200

* **35.825.91** *Printing system.*

◢ 35.821.98 - example of custom-made 1-colour print key ring

◢ 35.821.99 - example of custom-made 4-colour print key ring

Soft foam steering wheel key ring

Available in various colours

Code	ORDER BY BOX
35.827.00	10

Mini-fender floating key ring

Made of **flexible PVC**, the customer's logo may be printed; size 28x80mm (length).

Long fender *	Spherical fender	Colour	
		Head	Body
35.511.01	**35.511.03**	Blue	White
35.511.02	**35.511.04**	Blue	Red
35.511.05	-	Red	White

* *Specific logo on request*

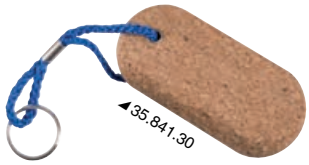
◢ 35.511.02

◢ 35.511.01

◢ 35.511.05

◢ 35.511.04

◢ 35.511.03



Cork floating key ring

Fitted with strap and stainless steel keyring.

Code	Shape	⟷ mm	ORDER BY BOX
35.841.00	ball	Ø 50	10
35.841.10	double ball	Ø 50	10
35.841.20	ball	Ø 35	10
35.841.30	oval floater	105x50x25	10

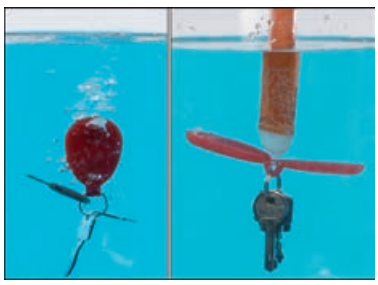
"Monkey's fist" key ring

35.820.00 Made of colored braided **nylon**, includes mirror polished brass shackle 5 mm.

Pendant polished brass key rings

Code	Shape
35.831.00	Propeller
35.835.00	Diving helmet
35.837.00	Lamp
35.838.00	Whistle
35.839.00	Bell

Patented floating key ring



35.830.00 Fitted with small internal PVC pocket, which **inflates** by chemical reaction when the key ring falls into the water, thus taking the keys afloat. Compact sizes (thickness 56x40x16mm) holds up to **120 grams** when activated.

Floatable cord for sunglasses

Code	Description
35.818.00	Made of soft lacquered floating **rubber**, available in various colors.

Floatable document holder

Made of **nylon fibre** with floating **polyethylene** sheets; functional and very sturdy; made with **customer's logo** upon request for at least 100 pieces.

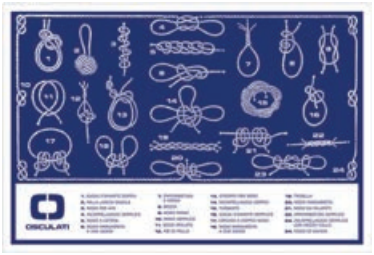
Code	⟷ cm
35.776.50	20x25
35.776.51	25x35

► Signals

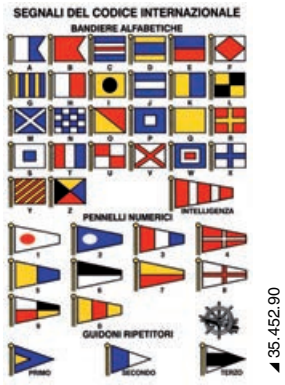
Nautical code stickers various

Hard wearing and high clarity. Italian language, only.

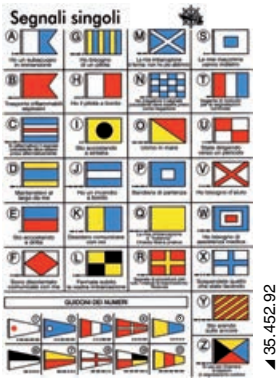
Code	Chart type	⟷ mm
35.452.90	Intenational codes with symbols	110x170
35.452.91	Most common “Knots”	240x160
35.452.92	International code with simbols and meaning of the flags	160x240
35.452.97	“Acoustic signals” of the international code	160x240
35.452.98	“Race signals” of the international code	160x240
35.452.99	Marine Code “International Navigation Standards” meaning of buoys, right of way, emergency signals, navigation lights, warning lights, harbour entry lights, tide warning signals	240x160



◢ 35.452.91



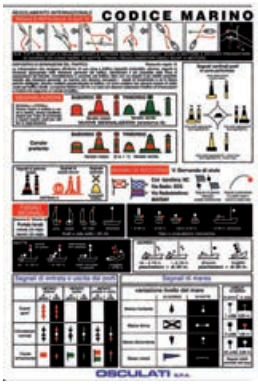
◢ 35.452.90



◢ 35.452.92

◢ 35.452.97

◢ 35.452.98



◢ 35.452.99

Compass card label

Italian language, only.

Code	Ø mm
35.452.87	150

Waste sticker

Code	⟷ mm
35.464.03	25x27

Type-approved EC labels

◢ 35.464.01

◢ 35.464.02

Made of **red PVC** on white background; required for EC boats. Italian language, only.

Code	Figure	⟷ mm
35.464.01	Extinguisher	100x80
35.464.02	Self-inflating	127x80

► STOPGULL bird deterrent device

STOPGULL Air

StopGull Air is a device designed to deter seagulls and coastal birds from landing on cabin tops, hardtops, booms and Bimini tops. Very easy bayonet-coupling mounting.
It can be folded or removed for little stowage room during navigation.
StopGull is designed to stand any wind speed.
By aligning the flags in the same direction it becomes 'wind-neutral' so there is no need to disassemble it.
StopGull can be mounted on any flat surface and can be combined with hardware for installation on hand rails, Bimini tops, etc.

Code	Model	Width cm
35.901.01	STOPGULL	185
35.901.02	STOPGULL XL	235

STOPGULL clamp support for handrails

35.902.00 For 22- to 38-mm diameter tubes. Made of anodized aluminium.
To be combined with 35.901.01/02.

STOPGULL support for Bimini tops and handrails

35.903.00 For 22- to 38-mm diameter tubes.
Made of AISI316 stainless steel.
To be combined with 35.901.01/02.

STOPGULL suction cup support

35.904.00 Suction cup support.
Ideal for hatches or outboard engines.
To be combined with 35.901.01/02.

STOPGULL support for upholstery

35.906.00 Weighed support (4 kg) to be installed on the solarium upholstery.

STOPGULL Keeper

35.915.00 To be mounted by means of adhesive tape onto radar and TV antennas, etc. 50-cm Ø.
When a bird lands on it, the device rotates and makes the bird fly away.

STOPGULL S27

35.918.00 To be mounted on the head of the 360° light. When a bird lands on it, the device **rotates** and makes the bird fly away. 55-mm Ø.

► Cleaning accessories, brushes, cleaning tubes and accessories

Boat washing kit

OSCULATI

Includes: **white PVC** 12x18mm hose with **polyester** reinforced fiber, **high pressure**, resistant up to **15 BAR** + adjustable water-jet pistol with **clip-on** connectors and 3 **clip-on** water joints.

Length 15 m	Length 25 m	Clip-on joints
36.464.15	**36.464.25**	1/2 - 3/4 - 1"

Reinforced PVC hose on roller

ABS roller, equipped with nozzle and gun.

Code	Pipe length m	⟷ external cm	Gun spray joint OPTIONAL
36.703.00	15	Ø 35 x 11	**36.188.99; 36.189.00; 36.189.01; 36.189.02**

Retractable hoses for boat washing

Made of EVA thermoplastic, a high-elasticity material.
Fitted with snap joints and adjustable flow nozzle.
They come in a case with zipper and water drain mesh.

Code	Length m (feet)	Hose Ø mm	Overall dimensions mm
36.464.39*	4.5 (15')	9x12	210x100
36.464.40	12 (40')	9x12	580x100
36.464.60	18 (60')	9x12	860x100

* *Sold without bag*

Case with water spiral hose

Bulkhead mount housing fitted with adjustable supply valve and polyurethane hose for connection to the water supply network. Standard plastic nozzle + professional heavy-duty nozzle + 1.5-m connection hose.

Code	Spiral hose	Ø mm	⟷ mm
36.464.30	7.5 m (25 feet)	8x12	480x260x130

◢ 36.189.05

◢ 36.189.04

◢ 36.189.02

◢ 36.189.03

Boat washing spray hose and accessories

Code	Description
36.189.00	spray spare made of ABS, boat washer with adjustable jet, fitted with lock/unlock distribution lever; female thread 3/4”
36.189.01	Male joint 3/4” screw-in on gun spray 36.189.00
36.189.02	Snap in joint 1/2”, with flow lock if gun spray not inserted; can be used from the spray gun from the tap side.
36.189.03	Female hose adaptor with thread size 1”
36.189.04	Female hose adaptor with thread size 3/4”
36.189.05	reducing coupling for adapting joint 36.189.02 size 3/4” with tap size 1/2”

Spray hose with 7 jet types

36.188.98 Fitted with tank for automatic shampoo dispensing. Soft rubber handle. Including trigger joint.

Boat washing spray gun

36.188.99 Professional metal pistol coated with anti-shock rubber. Adjustable jet with lock/unlock evaporation lever; supplied with snap-on joints 36.189.01.

Chromed brass joint

Code	Description
36.189.06	Suitable for connecting two hoses

2-way valve made of brass

Designed to connect 2 water hoses to a single outlet.
3/4" thread (for 1/2" reduction, use 36.189.05).
Two shut-off valves on the outlets.
Snap connection of the water hoses (international standard fitting).

Code	Description
36.189.08	2-way valve

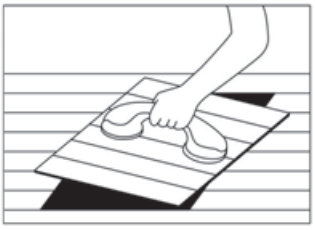
Cleaning kit

36.302.15 Includes: one telescopic mooring hook (75/130cm) + 1 cotton mop + one heavy fiber brush; all items are interchangeable.

Handle fitted with suction pads

Ideal to hang to the boat sides during cleaning operations and external maintenance activities, otherwise very tiring. Also fit for lifting hatches. It hangs to any surface within seconds.
Fitted with suction pads and flip-up fastening flaps.

Code	⟷ mm
36.185.00	290x100x84



80 micron filter, descaling, washable

Designed to be mounted along the piping that carries water onto the berth.
Filters water that goes onboard and that contains lime residues that be clog the pipework; fitted with 2 snap-in joints.

Code	⟷ mm
52.124.75	140x60

► MAFRAST line cleaning accessories

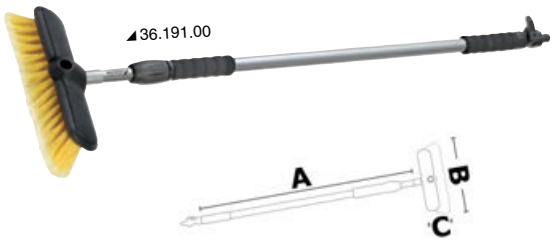
Ergonomic, handy and heavy-duty products designed for boat cleaning. High-quality materials that have undergone strict production tests. Compatible and interchangeable with SHURHOLD equivalent items.

MAFRAST telescopic scrubbing brush made of anodized aluminium and fitted with rotational closing tap

Convenient and sturdy, fitted with ergonomic anti-slip rubber handle for use also with wet hands and snap joint on the end for use in case of water flow. Medium-hardness brush for all surfaces.

Code	Version	Handle		Brush (BxC) mm
		length (A) cm	Ø mm	
36.191.00	Standard	95/150	22/25	25x9
36.191.02*	Double angle	117/180	22/25	25x14
36.191.03	Five angles	117/180	22/25	30x15

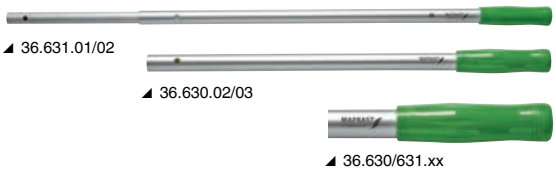
* *Double angle adjustable brush and water wiper rim.*



MAFRAST anodized aluminium stick

Snap mounting. Fixed or telescopic version available.

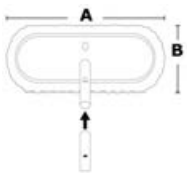
Code	Length cm	Type
36.630.02	102	Fixed
36.630.03	153	Fixed
36.631.01	90/160	Telescopic
36.631.02	120/220	Telescopic



MAFRAST special scrubbing brush

Polyurethane-coated marine wood structure, shock-proof rim, premium fibres, anodized aluminium snap coupling. 2 sizes available: 8" and 10".

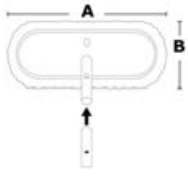
8" brush 195 (a) x 85 (b) mm	10 brush" 250 (a) x 90 (b) mm	Fibres	
		Type	Material
36.633.03	**36.634.03**	Soft	Yellow polyester
36.633.05	**36.634.05**	Medium hardness	Blue polyester



MAFRAST Eco scrubbing brush

White polypropylene frame with shock-resistant rubber rim.
Polyester premium fibres, aluminium snap coupling.

8" brush 195 (a) x 985(b) mm	10" brush 250 (a) x 90 (b) mm	Fibres	
		type	material
36.632.03	**36.635.03**	Soft	Yellow polyester
36.632.05	**36.635.05**	Medium hardness	Blue polyester



Mafrast floor mop, extremely high water absorption power

With snap coupling, made of anodized aluminium.

Code	Description
36.638.01	PVA leather, the most effective

Abrasive brush with nylon handle

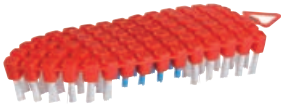
It removes surface vegetation and rust from metals. Medium abrasive power.

Code	⟷ pad mm
36.330.02	150x90

MAFRAST hand brush

Ideal for frequent washdown. Medium-hardness brush for any surface.

Code	Type	⟷ mm
36.636.00	Brush with water flow system, standard snap coupling	120x185
36.637.00	Brush with ergonomic handle	120x185



MAFRAST brush for line cleaning

36.639.01 Flexible brush to clean mooring lines, water tubes, electric cables, etc.
It can be used on 10- to 25-mm Ø poles.

MAFRAST water wiper for panes and windscreens.

Made of soft silicone.

Code	Length mm
36.640.01	310

MAFRAST squeegee

Tool with microfibre brush + squeegee. Fitted with foldable handle made of anodized aluminium.

Code	Brush mm	Blade mm	Total length mm
36.641.00	235	235	500

MAFRAST lamb wool mitt

Code	Description
36.641.01	Ideal to wash and clean. It can be used wet or dry.

MAFRAST Wash Mitt made of microfiber

36.641.02 Made of soft microfiber.
It absorbs large quantities of water for optimal and effortless cleaning of wide surfaces.
Elastic wrist band for a better cleaning performance.

MAFRAST absorbing cloth

Ultra-absorbing PVA leather. It absorbs 50% more than natural chamois leather.

Code	⟷ cm
36.642.01	66x43

Natural chamois leather DAINO SALT

Full leather treated with special tanning for salty environments; the way natural leather dries cannot be compared to that of synthetic leathers.

Code	Size
36.215.02	giant (0,45/0,60 m^2, approx cm 60/70 x 70/85)
36.215.01	large (0,35/0,42 m^2, approx cm 45/55 x 65/75)

As they are full leathers the sizes are aproximate

Microfiber cloth

Pair of microfiber cloths for your boat care. Ideal for the application of polish products and wax.

Code	⟷ mm
65.230.40	38x38

► SHURHOLD boat cleaning material

High-quality product, very sturdy, specifically designed for boat usage, 100% rust-proof.

Aluminium handles

Triple anodized aluminium, clip-on fitting; fixed or telescopic version.

Code	Length cm	Type	Neoprene coating Handle mate OPTIONAL*
36.730.00	76	Fixed	-
36.740.00	102	Fixed	-
36.760.00	153	Fixed	**36.760.01**
36.833.00	109/183	Telescopic	**36.833.01**
36.855.00	160/274	Telescopic	**36.855.01**

* *It makes the brush floating, protects the boat from unwanted bumps of the handle and improves grip.*

◢ 36.833-855.00

◢ 36.730-740-760.00

◢ 36.833-855.00

◢ 36.760.01; 36.833.01; 36.855.01

◢ 36.760.01; 36.833.01; 36.855.01

SHURHOLD threaded snap adapter for handles

36.101.00 Threaded adapter suitable for standard thread brushes.

SHURHOLD snap adapter for handles

36.102.00 30° sloped, the two end holes provide a 180° rotation.

Handle extension

36.103.00 Length 76 cm.

Scrubbers

Fitted with a **polyurethane lacquered marine wooden** structure, anti-shock corners, "fibre premium", **aluminium** clip-on connector; available in 2 different sizes.

Brush 10"	Brush 6"	Fiber	
		type	material
36.990.00	**36.950.00**	hard	white polyester
36.985.00	**36.955.00**	medium	yellow polyester
-	**36.970.00**	soft	blue nylon
36.980.00	**36.960.00**	soft	yellow polyester
-	**36.965.00**	soft + medium	red polyester

◢ 36.990.00

◢ 36.985.00

◢ 36.980.00

◢ 36.950.00

◢ 36.955.00

◢ 36.970.00

◢ 36.965.00

◢ 36.960.00

Scrubbers suitable for difficult applications

Useful for cleaning windshields, hulls, rudders; fitted with long fibres.

Code	Brush	Fiber	
		type	material
36.310.00	8"	soft	blue nylon
36.050.00	5"	soft	yellow polyester

◢ 36.050.00

◢ 36.310.00

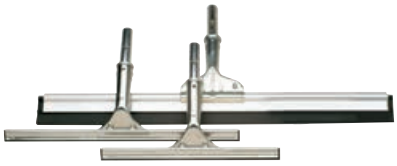
SHURHOLD HAMMERHEAD SOFT brush

36.945.00 Can either be used by hand or with any clip-on SHURHOLD handle; designed for maximum comfort, fitted with side cushion; suitable for hull or deck cleaning.

SHURHOLD mops

Fitted with **aluminium** clip-on connector.

Code	Version
36.112.00	classical and low cost
36.113.00	synthetic chamois, extra assorbing
36.117.00	made of synthetic leather, very efficient



SHURHOLD glass wipers

Made of **stainless steel**, fitted with clip-on connector.

Code	Length mm
36.141.20	305
36.141.60	407
36.142.40	610

SHURHOLD patented water removing blade

This flexible blade moulds to **curved surfaces.**

Code	Description
36.142.65	Handle
36.142.60	Flexible blade length 300 mm adjustable at 180°

SHURHOLD swivel scrubber with DIP and GO snap-on connector

36.170.01 Scrubber without pad.
It matches pads 36.170.10; 36.170.20; 36.170.30.

SHURHOLD synthetic polish wool pad

36.171.00 To put over scrubber 36.170.01

SHURHOLD abrasive pad

Code	Abrasion	Colour	To be applied to brush	ORDER BY BOX
36.170.10	Light	White	**36.170.01**	2
36.170.20	Medium	Blue	**36.170.01**	2
36.170.30	Heavy	Brown	**36.170.01**	2

36.220.00

36.210.00

SHURHOLD wiping cloth and synthetic sponge

Code	Description
36.220.00	Extra large (43x69 cm) absorbing/wiping cloth, it absorbs **50% more** than shammy leather
36.210.00	Extra absorbing synthetic sponge (17.5x7.5 cm)

Manual SHURHOLD brushes

Ideal for cleaning the waterline, propellers, teak decks, difficult angles, canvasses, rusted areas on stainless steel pulpits, etc...

Code	model	Version
36.947.01	276	fitted with extra-long handle 50cm
36.947.02	274	with short handle
36.947.03	272	with soft side bumper and handle suitable for handling high pressure
36.947.04	270 "type light"	especially suitable for carpets, canvas, covers, frabrics, etc..

36.947.01

36.947.03

36.947.04

36.947.02

SHURHOLD fishing accessories

Clip-on mounting.

Code	landing net	Size
36.182.20	long	small, cm 30x33x38
36.182.00	long	long, cm 43x51x76
36.182.25	fine	big, cm 43x51x76

36.182.20

36.182.00

36.182.25

SHURHOLD boat hook

36.190.10 Three in one model.

SHURHOLD gaff hook

36.180.40 Fitted with safety protection.

SHURHOLD Wash Mitts

Excellent for washing and cleaning, to be used either dry or wet. Top quality.

Code	Description
36.285.00	Made of lambwool.

SHURHOLD Magic Wool hand pad

Fine bronze wool brush.
Removes rust and oxidation from stainless steel, brass and metals without leaving scratches.
Also suitable for cleaning solar panels and removing limescale deposits from glass and ceramics.

Code	Description
36.286.00	Pack of 3

SHURHOLD cleaning brush for lines and tubes

36.287.00 Flexible brush to clean 12-25mm pipes, flexible pvc hose, electric cables and all other types of tubes.

► YACHTICON cleaning products

YACHTICON oval brush with medium nylon fibre

Suitable for a deep clening of the deck, central water flow system.

Code	⟷ mm
36.560.01	200x135x90

YACHTICON telescopic handle made of aluminium with QuickRelease hook

QuickRelease connecting system for fast assembly/disassembly of the brush.

Code	⟷ cm
36.569.00	75/180

◢ 36.560.10

◢ 36.560.12

◢ 36.560.11

USA-type brush

Painted wooden body with perimetral rubber buffer, central water flow system.

Code	⟷ mm	Fibre
36.560.10	200x85	SOFT
36.560.11	200x85	MEDIUM
36.560.12	200x85	HARD

◢ 36.565.01

◢ 36.565.02

Abrasive pad holder made of nylon

To clean bottom, deck, bulbs, rudder, etc. Fitted with special quick hooks to secure the abrasive pads.

Code	⟷ mm	Version
36.565.01	232x92	For manual use
36.565.02	225x92	To be mounted on handle 36.569.00

◢ 36.566.01

◢ 36.566.02

◢ 36.566.03

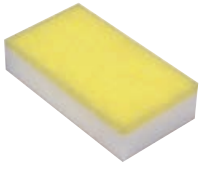
Abrasive cleaning pads

Code	Color	Type	Use	⟷ mm
36.566.01	Black	HARD - energetic abrasion	Rust, barnacles, paint, etc.	260x115
36.566.02	Blue	MEDIUM - regular abrasion	Surface algae	260x115
36.566.03	White	SOFT - light abrasion	General cleaning	260x115

Cleaning glove

Microfibre on one side and sponge on the other.

Code	Type
36.566.05	GLOVE



YACHTICON Magic Sponge

Just add water to remove algae, black streaks, limescale, rust, tea/coffee stains, and grime from the waterline. Also to be used to clean RIB tubes, PVC surfaces, glass, toilets, basins and other surfaces. 4-pcs package.

Code	⟷ mm
36.566.08	120x60x55

◢ 36.567.20

◢ 36.567.21

Hook&loop fastener supports for cleaning pads

Code	Type	⟷ mm	To be combined with
36.567.20	Stiff	Ø 150	**36.567.01/02/03**
36.567.21	Flexible	Ø 180	**36.567.11/12/13**

YACHTICON soft deep-cleaning pads

Code	Colour	Type	⟷ mm
36.567.01	orange	hard	Ø 150x25
36.567.02	blue	medium	Ø 150x25
36.567.03	black	soft	Ø 150x25
36.567.11	orange	hard	Ø 180x25
36.567.12	blue	medium	Ø 180x25
36.567.13	black	soft	Ø 180x25

YACHTICON Dustpan mini-broom

36.599.09 Very flexible, flat broom. It adapts to any surface.

► Bucket bags

YACHTICON Rubber sinking bucket

Made of heavy rubber, it sinks rapidly for fast refilling

Code	Capacity l	Accessories
23.887.00	8	Polyester line, 3-m splicing

YACHTICON Folding Sink

Ideal for washing plates and dishes. Highly resistant construction.

Code	⟷ mm	Capacity (L)
23.886.00	330x330x165	15

Folding bucket

Made of Oxford fabric with AISI304 stainless steel handle. Case included.

Code	Ø esternal mm	Height mm	Capacity l
23.885.00	240	35/225	9
23.885.01	240	45/330	12

SHURHOLD bucket + base + accessories

The system includes:
A) UV-resistant plastic bucket with 19-mm Ø nylon rope handle.
B) Special non-skid, UV-resistant, floating base. It prevents scratches on the deck.
C) Bucket seat/lid.
D) Bucket caddy to store cleaning products.
E) Bucket grid for drying and storing natural and synthetic chamois leather cloths, sponges, etc.

Code	Description
23.888.01	19.25-l (5 gallons) bucket
23.888.02	Anti-skid snap-in base
23.888.03	Bucket seat/lid
23.888.04	Bucket caddy
23.888.05	Bottom grid

◀23.888.01/02

◀23.888.04

◀23.888.05

◀23.888.02

◀23.888.03

◀23.888.05

► Boxes with assorted screws

Different cases are available with an assortment of screws and a range of diameters and lengths most commonly used in the marine sector.
Packed in professional cases made of anti-shock clear plastic to easily locate the items inside and fitted with safety slide closure.

Compact screw box, 540 pcs

37.300.01 Size: A2 AISI 304 175x145x32 mm.
Total items: 540
Include: 220 self-tapping screws (DIN 7981) - 320 self-tapping screws (DIN 7982).

Compact screw box, 600 pcs

37.300.02 Size: A2 AISI 304 175x145x32 mm.
Total items: 600
Include: 90 self-tapping screws (DIN 7981) - 135 self-tapping screws (DIN 7982) - 50 hexagonal head screws (DIN 933) - 50 countersunk screws (DIN 963) - 90 hexagon nuts(DIN 934) - 40 self-locking hexagon nuts (DIN 982) - 85 flat washers (DIN 125) - 60 washers three times larger than the hole.

Compact screw box, 390 pcs

37.300.03 Size: A2 AISI 304 175x145x32 mm.
Total items: 390
Include: 46 hexagonal head screws (DIN 933) - 64 countersunk screws (DIN 963) - 90 hexagon nuts(DIN 934) - 40 self-locking hexagon nuts (DIN 982) - 90 flat washers (DIN 125) - 60 washers three times larger than the hole.

Medium screw box, 850 pcs

37.300.04 Size: A2 AISI 304 240x195x42 mm.
Total items: 850
Include: 150 self-tapping screws (DIN 7981) - 148 self-tapping screws (DIN 7982) - 94 hexagonal head screws (DIN 933) - 97 countersunk screws (DIN 963) - 115 hexagon nuts(DIN 934) - 64 self-locking hexagon nuts (DIN 982) - 105 flat washers (DIN 125) - 70 washers three times larger than the hole - 7 threaded rod slugs, 20cm long (DIN 975).

Large screw box, 200 pcs

37.300.05 Size: A2 AISI 304 340x260x57 mm.
Total items: 2000
Include: 192 self-tapping screws (DIN 7981) - 200 self-tapping screws (DIN 7982) - 168 Fastar countersunk Philips screws - 16 bolt sleeves (DIN 571) - 138 hexagonal head screws (DIN 933) - 129 countersunk screws (DIN 963) - 124 cap screws (DIN 84) - 42 Allen screws (DIN 912) - 240 hexagon nuts(DIN 934) - 71 self-locking hexagon nuts (DIN 982) - 17 blind nuts (DIN 1587) - 20 wing nuts (DIN 315) - 215 flat washers (DIN 125) - 130 washers three times larger than the hole - 70 crown washers (DIN 6798) -80 grower washers (DIN 127) - 15 threaded rod slugs, 20cm long (DIN 975) - 48 pins (DIN 127) - 38 stainless steel studs - 30 various stainless steel items: fillets, tightening clamps, pin with rings, shackle opening tool.

Selection of stainless steel nuts

Code	Selection of 60 nuts AISI 304*
37.300.10	4-mm thread length, 5-mm total length, flat head; 5-mm thread length, 5-mm total length, flat head; 5-mm thread length, 6-mm total length, point head; 6-mm thread length, 6-mm total length, flat head; 1/4" thread length, 5-mm total length, point head.

* *12 pcs per type.*

► Bolts and screws in packs

Bolts and screws in packs - Pan head selftapping screw DIN 7981 / Tapping screw, raised countersunk head with cross recess DIN 7983 / Chipboard screws DIN 7505 A / Self-locking nuts DIN 982.

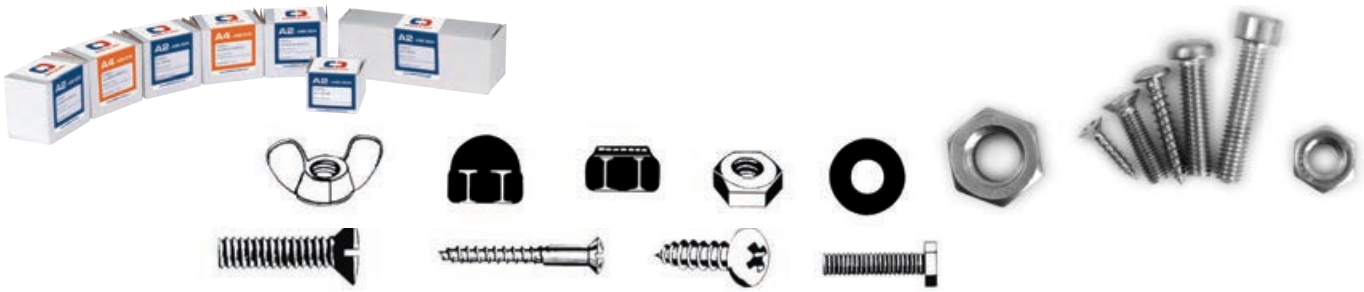
Autofilettante testa cilindrica DIN 7981			Autofilettante testa goccia DIN 7983			Viti a legno fastar DIN 7505A			Dadi auto-bloccanti DIN 982		
Code	mm	ORDER BY BOX	Code	mm	ORDER BY BOX	Code	mm	ORDER BY BOX	Code	mm	ORDER BY BOX
37.050.01	2.9x10	20	**37.051.01**	2.9x13	20	**-**	-	-	**-**	-	-
37.050.02	3.5x13	18	**37.051.02**	3.5x16	18	**37.054.02**	3x15	20	**-**	-	-
37.050.04	3.9x16	14	**37.051.04**	3.9x19	13	**37.054.04**	3.5x20	18	**37.056.04**	4	5
-	-	-	**-**	-	-	**-**	-	-	**37.056.05**	5	4
37.050.06	4.2x25	11	**37.051.06**	3.9x25	10	**-**	-	-	**37.056.06**	6	3
37.050.08	4.8x25	9	**37.051.08**	4.2x32	9	**37.054.08**	4x25	14	**37.056.08**	8	2
37.050.10	4.8x32	7	**37.051.10**	4.8x25	9	**37.054.10**	4.5x30	10	**-**	-	-
37.050.12	5.5x25	5	**-**	-	-	**-**	-	-	**-**	-	-
37.050.14	5.5x38	4	**37.051.14**	5.5x50	4	**37.054.14**	5x45	8	**-**	-	-
37.050.16	6.3x25	4	**37.051.16**	6.3x50	3	**37.054.16**	6x40	6	**-**	-	-
37.050.18	6.3x50	3	**-**	-	-	**-**			**-**	-	-

Bolts and screws in packs – Slotted countersunk head screws DIN 963 + hex nut DIN 934 + plain washer DIN 125 / Full thread hex head screws DIN 933 + hex nut DIN 934 + plain washer DIN 125 / Cross recessed countersunk flat head screws DIN965 + hex nut DIN 934 + plain washer DIN 125.

Viti a metallo testa svasata piana DIN 963 + dado DIN 934 + rondella DIN 125			Viti a metallo testa esagonale DIN 933 + dado DIN 934 + rondella DIN 125			Copiglie DIN 94			Viti a metallo testa a croce svasata piana DIN965 + dado DIN934 + rondella DIN125		
Code	mm	ORDER BY BOX	Code	mm	ORDER BY BOX	Code	mm	ORDER BY BOX	Code	mm	ORDER BY BOX
37.052.01	3x20	8	**-**	-	-	**37.055.01**	1.5x25	20	**37.057.01**	3x20	8
37.052.02	4x20	7	**-**	-	-	**37.055.02**	2x35	15	**37.057.02**	4x20	7
37.052.04	4x40	5	**-**	-	-	**37.055.04**	3x40	7	**37.057.04**	4x40	5
37.052.06	5x20	5	**37.053.06**	5x20	5	**37.055.06**	4x50	4	**37.057.06**	5x20	5
37.052.08	5x50	3	**37.053.08**	5x40	4	**-**	-	-	**37.057.08**	5x50	3
37.052.10	6x30	4	**37.053.10**	6x30	3	**-**	-	-	**37.057.10**	6x30	4
37.052.12	6x60	2	**37.053.12**	6x60	2	**-**	-	-	**-**	-	-
-	-	-	**37.053.14**	8x60	2	**-**	-	-	**37.057.14**	6x60	2
37.052.16	8x60	2	**-**	-	-	**-**	-	-	**37.057.16**	8x60	2

► Stainless steel nuts, bolts and screws: A4 - AISI 316

Screws are sold in practical cardboard boxes



Self tapping screw, cross head, round head, UNI 6954 DIN 7981

Code	mm	ORDER BY BOX
A4-7981-02.9X010	2.9 x 10	200
A4-7981-02.9X013	2.9 x 13	200
A4-7981-02.9X019	2.9 x 19	200
A4-7981-03.5X010	3.5 x 10	200
A4-7981-03.5X013	3.5 x 13	200
A4-7981-03.5X016	3.5 x 16	200
A4-7981-03.5X019	3.5 x 19	100
A4-7981-03.5X025	3.5 x 25	100
A4-7981-03.5X032	3.5 x 32	100
A4-7981-03.9X010	3.9 x 10	200
A4-7981-03.9X016	3.9 x 16	100
A4-7981-03.9X019	3.9 x 19	100
A4-7981-03.9X025	3.9 x 25	100
A4-7981-03.9X032	3.9 x 32	50

Code	mm	ORDER BY BOX
A4-7981-03.9X038	3.9 x 38	50
A4-7981-04.2X010	4.2 x 10	100
A4-7981-04.2X016	4.2 x 16	100
A4-7981-04.2X019	4.2 x 19	100
A4-7981-04.2X022	4.2 x 22	100
A4-7981-04.2X025	4.2 x 25	100
A4-7981-04.2X032	4.2 x 32	50
A4-7981-04.2X038	4.2 x 38	50
A4-7981-04.2X045	4.2 x 45	50
A4-7981-04.2X050	4.2 x 50	25
A4-7981-04.8X013	4.8 x 13	100
A4-7981-04.8X016	4.8 x 16	100
A4-7981-04.8X019	4.8 x 19	50
A4-7981-04.8X022	4.8 x 22	50

Code	mm	ORDER BY BOX
A4-7981-04.8X025	4.8 x 25	50
A4-7981-04.8X032	4.8 x 32	50
A4-7981-04.8X038	4.8 x 38	50
A4-7981-04.8X045	4.8 x 45	25
A4-7981-04.8X050	4.8 x 50	25
A4-7981-05.5X016	5.5 x 16	50
A4-7981-05.5X032	5.5 x 32	25
A4-7981-05.5X038	5.5 x 38	25
A4-7981-05.5X050	5.5 x 50	25
A4-7981-06.3X019	6.3 x 19	50
A4-7981-06.3X025	6.3 x 25	25
A4-7981-06.3X032	6.3 x 32	25

Self tapping screw cross head / countersunk, UNI 6955 DIN 7982

Code	mm	ORDER BY BOX
A4-7982-02.9X010	2.9 x 10	200
A4-7982-02.9X013	2.9 x 13	200
A4-7982-02.9X019	2.9 x 19	200
A4-7982-03.5X010	3.5 x 10	200
A4-7982-03.5X013	3.5 x 13	200
A4-7982-03.5X016	3.5 x 16	200
A4-7982-03.5X019	3.5 x 19	100
A4-7982-03.5X025	3.5 x 25	100
A4-7982-03.5X032	3.5 x 32	100
A4-7982-03.5X038	3.5 x 38	50
A4-7982-03.9X010	3.9 x 10	200
A4-7982-03.9X016	3.9 x 16	100
A4-7982-03.9X019	3.9 x 19	100
A4-7982-03.9X022	3.9 x 22	100
A4-7982-03.9X025	3.9 x 25	100

Code	mm	ORDER BY BOX
A4-7982-03.9X032	3.9 x 32	50
A4-7982-03.9X038	3.9 x 38	50
A4-7982-04.2X010	4.2 x 10	100
A4-7982-04.2X016	4.2 x 16	100
A4-7982-04.2X019	4.2 x 19	100
A4-7982-04.2X022	4.2 x 22	100
A4-7982-04.2X025	4.2 x 25	100
A4-7982-04.2X032	4.2 x 32	50
A4-7982-04.2X038	4.2 x 38	50
A4-7982-04.2X045	4.2 x 45	50
A4-7982-04.2X050	4.2 x 50	25
A4-7982-04.8X013	4.8 x 13	100
A4-7982-04.8X016	4.8 x 16	100
A4-7982-04.8X019	4.8 x 19	50
A4-7982-04.8X022	4.8 x 22	50

Code	mm	ORDER BY BOX
A4-7982-04.8X025	4.8 x 25	50
A4-7982-04.8X032	4.8 x 32	50
A4-7982-04.8X038	4.8 x 38	50
A4-7982-04.8X045	4.8 x 45	25
A4-7982-04.8X050	4.8 x 50	25
A4-7982-05.5X016	5.5 x 16	50
A4-7982-05.5X022	5.5 x 22	50
A4-7982-05.5X032	5.5 x 32	25
A4-7982-05.5X038	5.5 x 38	25
A4-7982-05.5X050	5.5 x 50	25
A4-7982-06.3X019	6.3 x 19	50
A4-7982-06.3X025	6.3 x 25	25
A4-7982-06.3X032	6.3 x 32	25
A4-7982-06.3X045	6.3 x 45	25
A4-7982-06.3X060	6.3 x 60	10

Machine screw - Cheese head with slot UNI 6107 DIN 84

Code	mm	ORDER BY BOX
A4-84-03X012	3 x 12	200
A4-84-03X016	3 x 16	200
A4-84-03X020	3 x 20	100
A4-84-03X025	3 x 25	100
A4-84-03X030	3 x 30	100
A4-84-03X035	3 x 35	50
A4-84-04X016	4 x 16	100
A4-84-04X020	4 x 20	100
A4-84-04X025	4 x 25	50

Code	mm	ORDER BY BOX
A4-84-04X030	4 x 30	50
A4-84-04X035	4 x 35	50
A4-84-04X040	4 x 40	50
A4-84-04X050	4 x 50	25
A4-84-05X020	5 x 20	50
A4-84-05X030	5 x 30	50
A4-84-05X040	5 x 40	25
A4-84-05X050	5 x 50	25
A4-84-05X060	5 x 60	25

Code	mm	ORDER BY BOX
A4-84-06X020	6 x 20	50
A4-84-06X030	6 x 30	50
A4-84-06X040	6 x 40	25
A4-84-06X050	6 x 50	10
A4-84-06X060	6 x 60	10
A4-84-08X030	8 x 30	10
A4-84-08X040	8 x 40	10
A4-84-08X050	8 x 50	10
A4-84-08X060	8 x 60	10

Threaded hexagon setscrew UNI 5739 DIN 933

Code	mm	ORDER BY BOX
A4-933-04X012	4 x 12	100
A4-933-04X020	4 x 20	100
A4-933-04X030	4 x 30	50
A4-933-04X040	4 x 40	50
A4-933-05X020	5 x 20	50
A4-933-05X030	5 x 30	50
A4-933-05X040	5 x 40	50
A4-933-05X050	5 x 50	25
A4-933-06X020	6 x 20	50
A4-933-06X030	6 x 30	50
A4-933-06X040	6 x 40	25
A4-933-06X050	6 x 50	25
A4-933-06X060	6 x 60	25
A4-933-06X070	6 x 70	10
A4-933-06X080	6 x 80	10
A4-933-06X100	6 x 100	10
A4-933-08X030	8 x 30	25
A4-933-08X040	8 x 40	25
A4-933-08X050	8 x 50	10
A4-933-08X060	8 x 60	10
A4-933-08X070	8 x 70	10
A4-933-08X080	8 x 80	10
A4-933-08X100	8 x 100	5
A4-933-10X040	10 x 40	10
A4-933-10X050	10 x 50	10
A4-933-10X060	10 x 60	10
A4-933-10X080	10 x 80	5
A4-933-10X100	10 x 100	5
A4-933-10X120	10 x 120	5
A4-933-12X050	12 x 50	10
A4-933-12X060	12 x 60	10
A4-933-12X080	12 x 80	5
A4-933-12X100	12 x 100	5
A4-933-12X120	12 x 120	5

Machine screw, slot head - countersunk UNI 6109 DIN 965

Code	mm	ORDER BY BOX
A4-965-03X012	3 x 12	200
A4-965-03X016	3 x 16	200
A4-965-03X020	3 x 20	100
A4-965-03X025	3 x 25	100
A4-965-03X030	3 x 30	100
A4-965-03X040	3 x 40	50
A4-965-04X016	4 x 16	100
A4-965-04X020	4 x 20	100
A4-965-04X030	4 x 30	50
A4-965-04X040	4 x 40	50
A4-965-04X050	4 x 50	25
A4-965-05X020	5 x 20	50
A4-965-05X030	5 x 30	50
A4-965-05X040	5 x 40	25
A4-965-05X050	5 x 50	25
A4-965-05X060	5 x 60	25
A4-965-06X020	6 x 20	50
A4-965-06X030	6 x 30	50
A4-965-06X040	6 x 40	25
A4-965-06X050	6 x 50	25
A4-965-06X060	6 x 60	10
A4-965-06X070	6 x 70	10
A4-965-06X080	6 x 80	10
A4-965-06X100	6 x 100	5
A4-965-08X030	8 x 30	10
A4-965-08X040	8 x 40	10
A4-965-08X050	8 x 50	10
A4-965-08X060	8 x 60	10
A4-965-08X070	8 x 70	5
A4-965-08X080	8 x 80	5
A4-965-08X100	8 x 100	5

Countersunk socket screw, UNI 5933 DIN 7991

Code	mm	ORDER BY BOX
A4-7991-03X012	3 x 12	50
A4-7991-03X020	3 x 20	50
A4-7991-03X030	3 x 30	50
A4-7991-04X016	4 x 16	50
A4-7991-04X020	4 x 20	50
A4-7991-04X030	4 x 30	50
A4-7991-04X040	4 x 40	25
A4-7991-04X050	4 x 50	25
A4-7991-05X020	5 x 20	50
A4-7991-05X040	5 x 40	25
A4-7991-05X050	5 x 50	25
A4-7991-06X020	6 x 20	50
A4-7991-06X030	6 x 30	25
A4-7991-06X040	6 x 40	25
A4-7991-06X060	6 x 60	10
A4-7991-06X070	6 x 70	10
A4-7991-06X100	6 x 100	5

Hexagon nut DIN 934

Code	mm	ORDER BY BOX
A4-934-03	3	200
A4-934-04	4	200
A4-934-05	5	200
A4-934-06	6	200
A4-934-08	8	100
A4-934-10	10	25
A4-934-12	12	25

Self-locking hexagon nut DIN 982

Code	mm	ORDER BY BOX
A4-982-04	4 (DIN 985 low type)	50
A4-982-05	5	25
A4-982-06	6	25
A4-982-08	8	10
A4-982-10	10	10
A4-982-12	12	5

Domed cap hexagon nut UNI 5721 DIN 1587

Code	mm	ORDER BY BOX
A4-1587-04	4	25
A4-1587-05	5	25
A4-1587-06	6	10
A4-1587-08	8	10
A4-1587-10	10	5
A4-1587-12	12	5

Washer UNI 6592 DIN 125

Code	mm	ORDER BY BOX
A4-125-03	3	200
A4-125-04	4	200
A4-125-05	5	200
A4-125-06	6	200
A4-125-08	8	100
A4-125-10	10	50
A4-125-12	12	50

Washer x 3 nominal diameter

Code	mm	ORDER BY BOX
A4-9021A-03X009	3 x 9	200
A4-9021A-04X012	4 x 12	200
A4-9021A-05X015	5 x 15	200
A4-9021A-06X018	6 x 18	100
A4-9021A-08X024	8 x 24	50
A4-9021A-10X030	10 x 30	25
A4-9021A-12X036	12 x 36	10

Serrated lock washer DIN 6798

Code	mm	ORDER BY BOX
A4-6798-04	4	200
A4-6798-05	5	200
A4-6798-06	6	200
A4-6798-08	8	200
A4-6798-10	10	100
A4-6798-12	12	50

Grower washers UNI 1751 DIN 127

Code	mm	ORDER BY BOX
A4-127-03	3	200
A4-127-04	4	200
A4-127-05	5	200
A4-127-06	6	200
A4-127-08	8	200
A4-127-10	10	100
A4-127-12	12	50

► Stainless steel nuts, bolts and screws: A2 - AISI 304

Screws are sold in practical cardboard boxes.

Self tapping screw cross head - oval, UNI 6954 DIN 7981

Code	mm	ORDER BY BOX
A2-7981-02.9X010	2.9 x 10	200
A2-7981-02.9X013	2.9 x 13	200
A2-7981-02.9X019	2.9 x 19	200
A2-7981-03.5X010	3.5 x 10	200
A2-7981-03.5X013	3.5 x 13	200
A2-7981-03.5X016	3.5 x 16	200
A2-7981-03.5X019	3.5 x 19	200
A2-7981-03.5X025	3.5 x 25	100
A2-7981-03.5X032	3.5 x 32	100
A2-7981-03.5X038	3.5 x 38	100
A2-7981-03.9X010	3.9 x 10	200
A2-7981-03.9X016	3.9 x 16	200
A2-7981-03.9X019	3.9 x 19	200
A2-7981-03.9X022	3.9 x 22	100
A2-7981-03.9X025	3.9 x 25	100
A2-7981-03.9X032	3.9 x 32	100
A2-7981-03.9X038	3.9 x 38	100
A2-7981-04.2X010	4.2 x 10	200
A2-7981-04.2X013	4.2 x 13	200
A2-7981-04.2X016	4.2 x 16	200
A2-7981-04.2X019	4.2 x 19	100
A2-7981-04.2X022	4.2 x 22	100
A2-7981-04.2X025	4.2 x 25	100
A2-7981-04.2X032	4.2 x 32	100
A2-7981-04.2X038	4.2 x 38	100
A2-7981-04.2X045	4.2 x 45	100
A2-7981-04.2X050	4.2 x 50	50
A2-7981-04.8X013	4.8 x 13	100
A2-7981-04.8X016	4.8 x 16	100
A2-7981-04.8X019	4.8 x 19	100
A2-7981-04.8X022	4.8 x 22	100
A2-7981-04.8X025	4.8 x 25	100
A2-7981-04.8X032	4.8 x 32	100
A2-7981-04.8X038	4.8 x 38	50
A2-7981-04.8X045	4.8 x 45	50
A2-7981-04.8X050	4.8 x 50	50
A2-7981-05.5X016	5.5 x 16	50
A2-7981-05.5X022	5.5 x 22	50
A2-7981-05.5X032	5.5 x 32	50
A2-7981-05.5X038	5.5 x 38	50
A2-7981-05.5X050	5.5 x 50	25
A2-7981-06.3X019	6.3 x 19	50
A2-7981-06.3X025	6.3 x 25	50
A2-7981-06.3X032	6.3 x 32	25
A2-7981-06.3X045	6.3 x 45	25
A2-7981-06.3X060	6.3 x 60	25

Self tapping screw cross head, countersunk, UNI 6955 DIN 7982

Code	mm	ORDER BY BOX
A2-7982-02.9X010	2.9 x 10	200
A2-7982-02.9X013	2.9 x 13	200
A2-7982-02.9X019	2.9 x 19	200
A2-7982-03.5X010	3.5 x 10	200
A2-7982-03.5X013	3.5 x 13	200
A2-7982-03.5X016	3.5 x 16	200
A2-7982-03.5X019	3.5 x 19	200
A2-7982-03.5X025	3.5 x 25	100
A2-7982-03.5X032	3.5 x 32	100
A2-7982-03.5X038	3.5 x 38	100
A2-7982-03.9X010	3.9 x 10	200
A2-7982-03.9X016	3.9 x 16	200
A2-7982-03.9X019	3.9 x 19	200
A2-7982-03.9X022	3.9 x 22	100
A2-7982-03.9X025	3.9 x 25	100
A2-7982-03.9X032	3.9 x 32	100

Code	mm	ORDER BY BOX
A2-7982-03.9X038	3.9 x 38	100
A2-7982-04.2X010	4.2 x 10	200
A2-7982-04.2X013	4.2 x 13	200
A2-7982-04.2X016	4.2 x 16	200
A2-7982-04.2X019	4.2 x 19	100
A2-7982-04.2X022	4.2 x 22	100
A2-7982-04.2X025	4.2 x 25	100
A2-7982-04.2X032	4.2 x 32	100
A2-7982-04.2X038	4.2 x 38	100
A2-7982-04.2X045	4.2 x 45	100
A2-7982-04.2X050	4.2 x 50	50
A2-7982-04.8X013	4.8 x 13	100
A2-7982-04.8X016	4.8 x 16	100
A2-7982-04.8X019	4.8 x 19	100
A2-7982-04.8X022	4.8 x 22	100
A2-7982-04.8X025	4.8 x 25	100

Code	mm	ORDER BY BOX
A2-7982-04.8X032	4.8 x 32	100
A2-7982-04.8X038	4.8 x 38	50
A2-7982-04.8X045	4.8 x 45	50
A2-7982-04.8X050	4.8 x 50	50
A2-7982-05.5X016	5.5 x 16	50
A2-7982-05.5X022	5.5 x 22	50
A2-7982-05.5X032	5.5 x 32	50
A2-7982-05.5X038	5.5 x 38	50
A2-7982-05.5X050	5.5 x 50	25
A2-7982-06.3X019	6.3 x 19	50
A2-7982-06.3X025	6.3 x 25	50
A2-7982-06.3X032	6.3 x 32	25
A2-7982-06.3X045	6.3 x 45	25
A2-7982-06.3X060	6.3 x 60	25

Flat countersunk Phillips-head screws for chipboard panels, wood and plastic - DIN 7505A

Code	mm	ORDER BY BOX
A2-7505A-03X015	3 x 15	100
A2-7505A-03X020	3 x 20	100
A2-7505A-03X030	3 x 30	100
A2-7505A-03.5X015	3.5 x 15	100
A2-7505A-03.5X020	3.5 x 20	100
A2-7505A-03.5X025	3.5 x 25	100
A2-7505A-03.5X030	3.5 x 30	100
A2-7505A-03.5X040	3.5 x 40	100
A2-7505A-04X015	4 x 15	100
A2-7505A-04X020	4 x 20	100
A2-7505A-04X025	4 x 25	100
A2-7505A-04X030	4 x 30	100

Code	mm	ORDER BY BOX
A2-7505A-04X035	4 x 35	100
A2-7505A-04X040	4 x 40	100
A2-7505A-04X050	4 x 50	100
A2-7505A-04.5X025	4.5 x 25	100
A2-7505A-04.5X030	4.5 x 30	100
A2-7505A-04.5X035	4.5 x 35	100
A2-7505A-04.5X040	4.5 x 40	100
A2-7505A-04.5X050	4.5 x 50	50
A2-7505A-05X025	5 x 25	100
A2-7505A-05X030	5 x 30	50
A2-7505A-05X035	5 x 35	50
A2-7505A-05X040	5 x 40	50

Code	mm	ORDER BY BOX
A2-7505A-05X050	5 x 50	50
A2-7505A-05X060	5 x 60	50
A2-7505A-05X070	5 x 70	25
A2-7505A-05X080	5 x 80	25
A2-7505A-06X025	6 x 25	50
A2-7505A-06X030	6 x 30	50
A2-7505A-06X035	6 x 35	50
A2-7505A-06X040	6 x 40	50
A2-7505A-06X050	6 x 50	50
A2-7505A-06X060	6 x 60	25
A2-7505A-06X070	6 x 70	25
A2-7505A-06X080	6 x 80	25

Self tapping screw cross head - oval UNI 6956 DIN 7983

Code	mm	ORDER BY BOX
A2-7983-02.9X010	2.9 x 10	200
A2-7983-02.9X013	2.9 x 13	200
A2-7983-02.9X019	2.9 x 19	200
A2-7983-03.5X010	3.5 x 10	200
A2-7983-03.5X013	3.5 x 13	200
A2-7983-03.5X016	3.5 x 16	200
A2-7983-03.5X019	3.5 x 19	200
A2-7983-03.5X025	3.5 x 25	100
A2-7983-03.5X032	3.5 x 32	100
A2-7983-03.5X038	3.5 x 38	100
A2-7983-03.9X010	3.9 x 10	200
A2-7983-03.9X016	3.9 x 16	200
A2-7983-03.9X019	3.9 x 19	200
A2-7983-03.9X022	3.9 x 22	100
A2-7983-03.9X025	3.9 x 25	100
A2-7983-03.9X032	3.9 x 32	100

Code	mm	ORDER BY BOX
A2-7983-03.9X038	3.9 x 38	100
A2-7983-04.2X010	4.2 x 10	200
A2-7983-04.2X013	4.2 x 13	200
A2-7983-04.2X016	4.2 x 16	200
A2-7983-04.2X019	4.2 x 19	100
A2-7983-04.2X022	4.2 x 22	100
A2-7983-04.2X025	4.2 x 25	100
A2-7983-04.2X032	4.2 x 32	100
A2-7983-04.2X038	4.2 x 38	100
A2-7983-04.2X045	4.2 x 45	100
A2-7983-04.2X050	4.2 x 50	50
A2-7983-04.8X013	4.8 x 13	100
A2-7983-04.8X016	4.8 x 16	100
A2-7983-04.8X019	4.8 x 19	100
A2-7983-04.8X022	4.8 x 22	100
A2-7983-04.8X025	4.8 x 25	100

Code	mm	ORDER BY BOX
A2-7983-04.8X032	4.8 x 32	100
A2-7983-04.8X038	4.8 x 38	50
A2-7983-04.8X045	4.8 x 45	50
A2-7983-04.8X050	4.8 x 50	50
A2-7983-05.5X016	5.5 x 16	50
A2-7983-05.5X022	5.5 x 22	50
A2-7983-05.5X032	5.5 x 32	50
A2-7983-05.5X038	5.5 x 38	50
A2-7983-05.5X050	5.5 x 50	25
A2-7983-06.3X019	6.3 x 19	50
A2-7983-06.3X025	6.3 x 25	50
A2-7983-06.3X032	6.3 x 32	25
A2-7983-06.3X045	6.3 x 45	25
A2-7983-06.3X060	6.3 x 60	25

Hexagon head, wood screw UNI 704 DIN 571

Code	mm	ORDER BY BOX
A2-571-06X030	6 x 30	25
A2-571-06X040	6 x 40	25
A2-571-06X050	6 x 50	25
A2-571-06X060	6 x 60	25
A2-571-06X070	6 x 70	10
A2-571-08X040	8 x 40	10

Code	mm	ORDER BY BOX
A2-571-08X050	8 x 50	10
A2-571-08X060	8 x 60	10
A2-571-08X070	8 x 70	10
A2-571-08X080	8 x 80	10
A2-571-08X100	8 x 100	10
A2-571-10X050	10 x 50	10

Code	mm	ORDER BY BOX
A2-571-10X060	10 x 60	10
A2-571-10X070	10 x 70	10
A2-571-10X080	10 x 80	10
A2-571-10X100	10x1000	10

Threaded hexagon setscrew UNI 5739 DIN 933

Code	mm	ORDER BY BOX
A2-933-04X012	4 x 12	100
A2-933-04X020	4 x 20	100
A2-933-04X030	4 x 30	100
A2-933-04X040	4 x 40	50
A2-933-05X016	5 x 16	100
A2-933-05X020	5 x 20	100
A2-933-05X030	5 x 30	100
A2-933-05X040	5 x 40	50
A2-933-05X050	5 x 50	50
A2-933-06X016	6 x 16	100
A2-933-06X020	6 x 20	100
A2-933-06X025	6 x 25	100
A2-933-06X030	6 x 30	50
A2-933-06X035	6 x 35	50
A2-933-06X040	6 x 40	50
A2-933-06X045	6 x 45	50
A2-933-06X050	6 x 50	50
A2-933-06X055	6 x 55	25
A2-933-06X060	6 x 60	25
A2-933-06X065	6 x 65	25
A2-933-06X070	6 x 70	25
A2-933-06X075	6 x 75	25
A2-933-06X080	6 x 80	25
A2-933-06X100	6 x 100	10
A2-933-08X025	8 x 25	25
A2-933-08X030	8 x 30	25
A2-933-08X040	8 x 40	25
A2-933-08X050	8 x 50	25
A2-933-08X060	8 x 60	25
A2-933-08X070	8 x 70	25
A2-933-08X080	8 x 80	25
A2-933-08X100	8 x 100	10
A2-933-08X120	8 x 120	10
A2-933-10X040	10 x 40	25
A2-933-10X050	10 x 50	25
A2-933-10X060	10 x 60	25
A2-933-10X080	10 x 80	10
A2-933-10X100	10 x 100	10
A2-933-10X120	10 x 120	10
A2-933-12X045	12 x 45	25
A2-933-12X060	12 x 60	10
A2-933-12X080	12 x 80	10
A2-933-12X100	12 x 100	10
A2-933-12X120	12 x 120	5
A2-933-12X150	12 x 150 parz filet	5

Convex countersunk head machine screw cross recedded UNI 7689 DIN 966

Code	mm	ORDER BY BOX
A2-966-03X012	3 x 12	200
A2-966-03X016	3 x 16	200
A2-966-03X020	3 x 20	200
A2-966-03X025	3 x 25	200
A2-966-03X030	3 x 30	200
A2-966-04X016	4 x 16	100
A2-966-04X020	4 x 20	100
A2-966-04X030	4 x 30	100
A2-966-04X040	4 x 40	50
A2-966-05X020	5 x 20	100
A2-966-05X025	5 x 25	50
A2-966-05X030	5 x 30	50
A2-966-05X035	5 x 35	50
A2-966-05X040	5 x 40	50
A2-966-05X045	5 x 45	25
A2-966-05X050	5 x 50	25
A2-966-06X020	6 x 20	50
A2-966-06X025	6 x 25	50
A2-966-06X030	6 x 30	50
A2-966-06X035	6 x 35	50
A2-966-06X040	6 x 40	25
A2-966-06X045	6 x 45	25
A2-966-06X050	6 x 50	25
A2-966-06X060	6 x 60	25
A2-966-08X030	8 x 30	25
A2-966-08X040	8 x 40	25
A2-966-08X050	8 x 50	25
A2-966-08X060	8 x 60	10
A2-966-08X070	8 x 70	10
A2-966-08X080	8 x 80	10

Machine screw cross head - countersunk, UNI 7688 DIN 965

Code	mm	ORDER BY BOX
A2-965-03X012	3 x 12	200
A2-965-03X016	3 x 16	200
A2-965-03X020	3 x 20	200
A2-965-03X025	3 x 25	200
A2-965-03X030	3 x 30	100
A2-965-04X016	4 x 16	100
A2-965-04X020	4 x 20	100
A2-965-04X025	4 x 25	100
A2-965-04X030	4 x 30	100
A2-965-04X035	4 x 35	50
A2-965-04X040	4 x 40	50
A2-965-05X020	5 x 20	100
A2-965-05X025	5 x 25	50
A2-965-05X030	5 x 30	50
A2-965-05X035	5 x 35	50
A2-965-05X040	5 x 40	50
A2-965-05X045	5 x 45	25
A2-965-05X050	5 x 50	25
A2-965-06X020	6 x 20	50
A2-965-06X025	6 x 25	50
A2-965-06X030	6 x 30	50
A2-965-06X035	6 x 35	50
A2-965-06X040	6 x 40	25
A2-965-06X045	6 x 45	25
A2-965-06X050	6 x 50	25
A2-965-06X060	6 x 60	25
A2-965-08X020	8 x 20	25
A2-965-08X025	8 x 25	25
A2-965-08X030	8 x 30	25
A2-965-08X035	8 x 35	25
A2-965-08X040	8 x 40	25
A2-965-08X045	8 x 45	25
A2-965-08X050	8 x 50	25
A2-965-08X060	8 x 60	10
A2-965-08X070	8 x 70	10
A2-965-08X080	8 x 80	10

machine screw, slot head - countersunk UNI 6109 DIN 963

Code	mm	ORDER BY BOX
A2-963-03X012	3 x 12	200
A2-963-03X016	3 x 16	200
A2-963-03X020	3 x 20	200
A2-963-03X025	3 x 25	200
A2-963-03X030	3 x 30	100
A2-963-03X040	3 x 40	50
A2-963-04X016	4 x 16	100
A2-963-04X020	4 x 20	100
A2-963-04X025	4 x 25	100
A2-963-04X030	4 x 30	100
A2-963-04X035	4 x 35	50
A2-963-04X040	4 x 40	50
A2-963-04X050	4 x 50	25
A2-963-05X020	5 x 20	100
A2-963-05X025	5 x 25	100
A2-963-05X030	5 x 30	100
A2-963-05X035	5 x 35	50
A2-963-05X040	5 x 40	50
A2-963-05X045	5 x 45	50
A2-963-05X050	5 x 50	25
A2-963-05X060	5 x 60	25
A2-963-06X020	6 x 20	100
A2-963-06X025	6 x 25	50
A2-963-06X030	6 x 30	50
A2-963-06X035	6 x 35	50
A2-963-06X040	6 x 40	50
A2-963-06X045	6 x 45	25
A2-963-06X050	6 x 50	25
A2-963-06X060	6 x 60	25
A2-963-06X070	6 x 70	25
A2-963-06X080	6 x 80	10
A2-963-06X100	6 x 100	10
A2-963-06X120	6 x 120	5
A2-963-08X030	8 x 30	25
A2-963-08X040	8 x 40	25
A2-963-08X050	8 x 50	25
A2-963-08X060	8 x 60	10
A2-963-08X070	8 x 70	10
A2-963-08X080	8 x 80	10
A2-963-08X100	8 x 100	5
A2-963-08X120	8 x 120	5

Machine screw - Cheese head with slot UNI 6107 DIN 84

Code	mm	ORDER BY BOX
A2-84-03X012	3 x 12	200
A2-84-03X016	3 x 16	200
A2-84-03X020	3 x 20	200
A2-84-03X030	3 x 30	100
A2-84-03X040	3 x 40	50
A2-84-04X016	4 x 16	200
A2-84-04X020	4 x 20	100
A2-84-04X030	4 x 30	100
A2-84-04X040	4 x 40	50
A2-84-04X050	4 x 50	50
A2-84-05X020	5 x 20	100
A2-84-05X025	5 x 25	100
A2-84-05X030	5 x 30	50
A2-84-05X035	5 x 35	50
A2-84-05X040	5 x 40	50
A2-84-05X045	5 x 45	50
A2-84-05X050	5 x 50	25
A2-84-05X060	5 x 60	25
A2-84-06X020	6 x 20	50
A2-84-06X025	6 x 25	50
A2-84-06X030	6 x 30	50
A2-84-06X035	6 x 35	50
A2-84-06X040	6 x 40	50
A2-84-06X045	6 x 45	25
A2-84-06X050	6 x 50	25
A2-84-06X060	6 x 60	25
A2-84-06X070	6 x 70	25
A2-84-06X080	6 x 80	10
A2-84-08X030	8 x 30	25
A2-84-08X040	8 x 40	25
A2-84-08X050	8 x 50	25
A2-84-08X060	8 x 60	10
A2-84-08X080	8 x 80	10

Machine screw - Large cheese head - cross head - round UNI 7687 DIN 7985

Code	mm	ORDER BY BOX
A2-7985-04X020	4 x 20	100
A2-7985-04X025	4 x 25	100
A2-7985-04X030	4 x 30	100
A2-7985-04X035	4 x 35	50
A2-7985-04X040	4 x 40	50
A2-7985-05X020	5 x 20	50
A2-7985-05X025	5 x 25	50
A2-7985-05X030	5 x 30	50
A2-7985-05X035	5 x 35	50
A2-7985-05X040	5 x 40	50
A2-7985-05X045	5 x 45	25
A2-7985-05X050	5 x 50	25
A2-7985-06X020	6 x 20	50
A2-7985-06X025	6 x 25	50
A2-7985-06X030	6 x 30	50
A2-7985-06X035	6 x 35	50
A2-7985-06X040	6 x 40	25
A2-7985-06X045	6 x 45	25
A2-7985-06X050	6 x 50	25
A2-7985-06X060	6 x 60	25
A2-7985-08X030	8 x 30	25
A2-7985-08X035	8 x 35	25
A2-7985-08X040	8 x 40	25
A2-7985-08X045	8 x 45	25
A2-7985-08X050	8 x 50	25
A2-7985-08X060	8 x 60	10
A2-7985-08X070	8 x 70	10
A2-7985-08X080	8 x 80	10

Socket head cap screw UNI 5931 DIN 912

Code	mm	ORDER BY BOX
A2-912-04X010	4 x 10	50
A2-912-04X016	4 x 16	50
A2-912-04X020	4 x 20	50
A2-912-04X030	4 x 30	50
A2-912-04X040	4 x 40	50
A2-912-05X010	5 x 10	50
A2-912-05X016	5 x 16	50
A2-912-05X020	5 x 20	50
A2-912-05X030	5 x 30	50
A2-912-05X040	5 x 40	50
A2-912-05X050	5 x 50	25
A2-912-05X060	5 x 60	25
A2-912-06X016	6 x 16	50
A2-912-06X020	6 x 20	50
A2-912-06X030	6 x 30	50
A2-912-06X040	6 x 40	50
A2-912-06X050	6 x 50	25
A2-912-06X060	6 x 60	25
A2-912-08X016	8 x 16	25
A2-912-08X020	8 x 20	25
A2-912-08X030	8 x 30	25
A2-912-08X040	8 x 40	25
A2-912-08X050	8 x 50	25
A2-912-08X060	8 x 60	25
A2-912-08X080	8 x 80	10

Hexagon nut UNI 5588 DIN 934

Code	mm	ORDER BY BOX
A2-934-03	3	200
A2-934-04	4	200
A2-934-05	5	200
A2-934-06	6	100
A2-934-08	8	100
A2-934-10	10	50
A2-934-12	12	25
A2-934-14	14	25
A2-934-16	16	25

Self locking hexagon nut DIN 982

Code	mm	ORDER BY BOX
A2-982-04	4	50
A2-982-05	5	50
A2-982-06	6	50
A2-982-08	8	50
A2-982-10	10	25
A2-982-12	12	10
A2-982-14	14	10
A2-982-16	16	10

Domed cap hexagon nut UNI 5721 DIN 1587

Code	mm	ORDER BY BOX
A2-1587-04	Ø 4	25
A2-1587-05	Ø 5	25
A2-1587-06	Ø 6	25
A2-1587-08	Ø 8	25
A2-1587-10	Ø 10	10
A2-1587-12	Ø 12	10
A2-1587-14	Ø 14	5
A2-1587-16	Ø 16	5

Wing nut UNI 5448 DIN 315

Code	mm	ORDER BY BOX
A2-315-04	Ø 4	25
A2-315-05	Ø 5	25
A2-315-06	Ø 6	25
A2-315-08	Ø 8	10
A2-315-10	Ø 10	10
A2-315-12	Ø 12	10

Washer UNI 6592 DIN 125

Code	mm	ORDER BY BOX
A2-125-03	Ø 3	200
A2-125-04	Ø 4	200
A2-125-05	Ø 5	200
A2-125-06	Ø 6	200
A2-125-08	Ø 8	200
A2-125-10	Ø 10	100
A2-125-12	Ø 12	50
A2-125-14	Ø 14	25
A2-125-16	Ø 16	25

Washer x 3 nominal diameter

Code	mm	ORDER BY BOX
A2-9021A-03X009	Ø 3 x 9	200
A2-9021A-04X012	Ø 4 x 12	200
A2-9021A-05X015	Ø 5 x 15	200
A2-9021A-06X018	Ø 6 x 18	100
A2-9021A-08X024	Ø 8 x 24	50
A2-9021A-10X030	Ø 10x30	25
A2-9021A-12X036	Ø 12x36	25
A2-9021A-14X042	Ø 14x42	10
A2-9021A-16X048	Ø 16x48	10

Washer x 4 nominal diameter

Code	mm	ORDER BY BOX
A2-9021B-03X012	Ø 3 x 12	100
A2-9021B-04X016	Ø 4 x 16	100
A2-9021B-05X020	Ø 5 x 20	50
A2-9021B-06X024	Ø 6 x 24	50
A2-9021B-08X032	Ø 8 x 32	25
A2-9021B-10X040	Ø 10x40	25
A2-9021B-12X048	Ø 12x48	10
A2-9021B-14X056	Ø 14x56	10
A2-9021B-16X064	Ø 16x64	5

Grower Washer, UNI 1751 DIN 127

Code	mm	ORDER BY BOX
A2-127-04	Ø 4	200
A2-127-05	Ø 5	200
A2-127-06	Ø 6	200
A2-127-08	Ø 8	100
A2-127-10	Ø 10	50
A2-127-12	Ø 12	50

Serra ted lock washer DIN 6798

Code	mm	ORDER BY BOX
A2-6798-04	Ø 4	200
A2-6798-05	Ø 5	100
A2-6798-06	Ø 6	100
A2-6798-08	Ø 8	50
A2-6798-10	Ø 10	50
A2-6798-12	Ø 12	25

Split pin UNI 1336 DIN 94

Code	mm	ORDER BY BOX
A2-94-01.5X025	1.5 x 25	100
A2-94-01.5X030	1.5 x 30	100
A2-94-02X035	2 x 35	100
A2-94-02X040	2 x 40	100
A2-94-02.5X030	2.5 x 30	50
A2-94-03X050	3 x 50	50
A2-94-03.5X040	3.5 x 40	50
A2-94-04X050	4 x 50	25
A2-94-04.5X050	4.5 x 50	25
A2-94-05X060	5 x 60	25

Threaded rod, 1 m, DIN 975

Code	mm
37.418.05	Ø 5
37.418.06	Ø 6
37.418.08	Ø 8
37.418.10	Ø 10
37.418.12	Ø 12
37.418.14	Ø 14
37.418.16	Ø 16

► Fixing parts: pins, clamps and screw covers

Drop nose pin

Stainless steel clevis pin with with spring loaded locking mechanism

Code	Size mm	Code	Size mm	Code	Size mm
37.107.01	6x15	**37.107.04**	8x35	**37.107.07**	10x25
37.107.02	6x25	**37.107.05**	10x35		
37.107.03	8x20	**37.107.06**	10x45		

Drop nose pins

Made of **stainless steel**; with spring locking mechanism and safety tooth.

Net length "L" mm	Ø 6 mm		Ø 8 mm		Ø 10 mm	
	Type A	Type B	Type A	Type B	Type A	Type B
15	**37.266.15**	-	-	-	-	-
17	-	-	**37.268.17**	-	-	-
20	**37.266.20**	**37.267.20**	**37.268.20**	**37.269.20**	-	-
25	**37.266.25**	-	-	-	-	-
30	**37.266.30**	**37.267.30**	**37.268.30**	**37.269.30**	**37.270.30**	**37.271.30**
40	**37.266.40**	**37.267.40**	**37.268.40**	**37.269.40**	**37.270.40**	**37.271.40**
42	**37.266.42**	**37.267.42**	-	-	-	-
50	**37.266.50**	**37.267.50**	**37.268.50**	**37.269.50**	**37.270.50**	**37.271.50**
60	**37.266.60**	-	**37.268.60**	**37.269.60**	**37.270.60**	**37.271.60**
70	-	-	-	-	-	**37.271.70**
80	-	-	**37.268.80**	**37.269.80**	**37.270.80**	**37.271.80**
100	-	-	-	-	**37.270.10**	**37.271.10**

Suitable to fasten "Laser" vangs.

◢ 37.267.xx;37.269.xx ;37.271.xx (Type B)

◢37.266.xx;37.268.xx; 37.270.xx (Type A)

Stainless steel clevis pins

Multipurpose, **split ring not included**

Code	Ø mm	Length mm	Code	Ø mm	Length mm	Code	Ø mm	Length mm
37.106.18A	4	10	**37.106.20B**	5	15	**37.106.21C**	6	20
37.106.18B	4	15	**37.106.20C**	5	20	**37.106.21D**	6	25
37.106.18C	4	25	**37.106.21A**	6	10	**37.106.22**	7	15
37.106.20A	5	10	**37.106.21B**	6	15	**37.106.23**	8	20

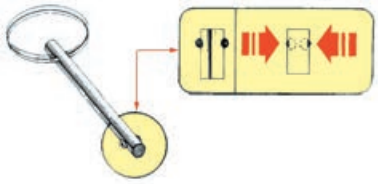
Stainless steel split rings

Code	Size mm
37.106.01	13x0,8
37.106.02	17x1
37.106.03	18x1,2

Stainless steel self-locking pins

Fitted with **spring balls** on one end and ring on the other end; ideal for tent forks (46.662.00; 46.662.20; 46.662.22; 46.653.20; 46.653.22) boarding ladders, boom fittings, anchor locks etc.. and wherever safety is required without having to fasten screws.

Code	Ø mm	Length mm		ORDER BY BOX
		tot.	usable	
37.264.10	6	25	12	10
37.264.15	6	38	25	10
37.264.20	6	51	38	10
37.264.25	6	64	51	10
37.264.30	6	76	64	10



Nylon tarpaulin lacing buttons

Available in colors black or white.

Code	Type	Colour	ORDER BY BOX
37.256.10BI	With 4.5-mm hole	White	100
37.256.10NE	With 4.5-mm hole	Black	100
37.256.50BI	With ball*	White	100
37.256.50NE	With ball*	Black	100

* *Specially suited to be used with **elastic** cable.*

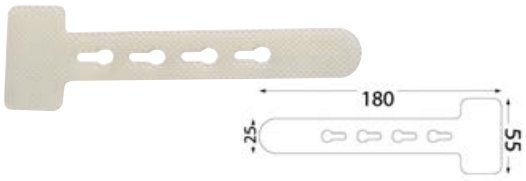
◢37.256.50

◢37.256.10

AISI 316 stainless steel lacing button for tarpaulin

AISI 316 Available in 4 different shapes.

Code	Length mm	Hole mm	Head
37.321.10	10	5	normal
37.321.13	13	5	normal
37.321.15	19	4	normal
37.321.17	12.5	4	large Ø mm 19



Adjustbale cover tensioner to be sewn

Soft plastic buckle with nylon weft to tension covers. To be used with pins 37.256.xx/37.321.xx.

Code	⟷ mm
37.319.00	180x55x25

"Shore Caps"

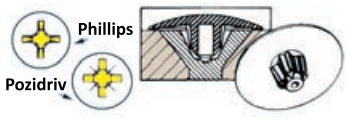
Under screw rims fitted with snap-on cover; head-cover attached to the base.

Color			For screw Ø mm	ORDER BY BOX
white	black	teak		
37.339.01	**37.339.02**	**37.339.03**	3,5/4,2	500

"Snap Caps"

Genuine USA washers, fitted with snap-on caps; made of **UV resistant polypropylene** , stabilized, guaranteed, high-quality finish, watertight and anti-corrosive; for self-tapping into wood or metal.

Edging color				For screw Ø mm	ORDER BY BOX
white	light gray	black	teak		
37.340.01	**37.340.04**	**37.340.02**	**37.340.03**	3.5-4.2	1000
37.341.01	**37.341.04**	**37.341.02**	**37.341.03**	4.8-6	1000



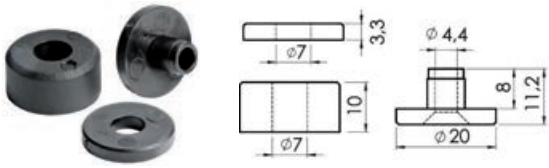
"Tap-Caps"

Genuine US white nylon caps; for Phillips self-tapping screws DIN 7982 3,5/3,9/4,2/4,8mm or machine screws DIN 965 4/5mm.

Code	screw cover Ø mm	ORDER BY BOX
37.342.00	12	1000

Under-screw washers

Hole mm	nylon white	external Ø mm	nylon black	external Ø mm	chromed brass	external Ø mm	ORDER BY BOX
4	**37.322.04BI**	13	**37.322.04NE**	15	**37.323.04**	12	100
5	**37.322.05BI**	15	**37.322.05NE**	15	**37.323.07**	15	100



Glass stop spacers for windscreen fixing

Code	Color	ORDER BY BOX
37.350.01	White	100
37.350.02	Black	100

OSCULATI

Special bayonet locks, suitable for mounting kits

Code	Description
37.331.00	Special bayonet holders made of **stainless steel**, designed for floor plates, fitted with one bushing to be screwed and one conical bayonet screw that locks the floor plate; universal size or floor plates size 8/15 (thickness)

Nylon clamps

To be fixed to pulpits or stanchions as hooking point for plates, straps, elastics, etc.
It comes with screws.

Code	For pipes mm
37.175.81	22/25

AISI 316 mirror polished stainless steel clamps

AISI 316

Suitable as point of strength to mount accessories into pulpits or A-Frames, also hold any type of **heavy** accessories.

Code	For pipe size mm	hole wheelbase mm
37.261.01	20/22/25	31.5
37.261.02	30/35/40	31.5

◢ 37.261.01

◢ 37.261.02

Stainless steel plate

To pair with items 37.175.81 and 37.261.01.

Code	Size mm
37.260.83	44x44
37.260.84	19x51

Stainless steel hooks

Code	Type
37.251.80	"Sea Sure" grapnel type
37.290.00	canvas holder and for various uses
37.290.01	canvas holder and for various uses, curved base for pipei Ø mm 40/70

◢ 37.251.80

◢ 37.290.01

◢ 37.290.00

Stainless steel rivets, standard head

Fitted with **stainless steel** mandrill.

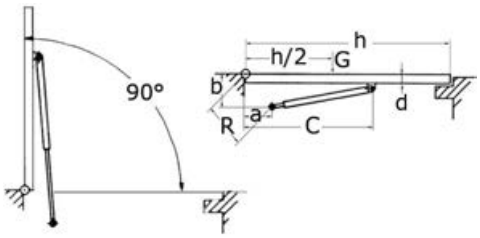
100-piece display bag	500-piece box	1000-piece box	⟷ mm
37.221.01	-	**37.220.01**	4x10
37.221.02	**37.220.02**	-	4x13
37.221.03	**37.220.03**	-	4x16
37.221.04	**37.220.04**	-	4.8x10
37.221.05	**37.220.05**	-	4.8x13
37.221.06	**37.220.06**	-	4.8x16

Stainless steel stud with standard head

Fitted with **stainless steel** nail.

Code	Size mm	ORDER BY BOX
37.218.01	3,9x10	1000
37.218.02	4,9x10	500
37.218.03	3,9x14	1000
37.218.04	4,9x16	500
37.218.05	4,8x20	500

► Gas springs for hatches, engine rooms etc.



Formula to choose the correct gas spring: you have to calculate the reaction value needed to open the pick using the following formula: VR= (Gxh/2)/R where G is the hatch weight in kg - h/2 is the hatch thickness in centimetersdivided by two and R is the shortest distance in centimeters between the rod fixing point and the rotation centre.

OSCULATI

Painted steel gas springs eye - eye

Made with chromed steel rod and epoxy-powder painted body. Resistant to the marine environment.

Code	Open mm	Stroke mm	Response kg	Ø body mm	Ø rod mm
38.004.00	244	88	5	15	6
38.005.00	244	88	9	15	6
38.006.00	244	88	18	15	6
38.014.00	355	130	11	19	8
38.015.00	355	130	18	19	8
38.015.02	355	130	25	19	8
38.015.01	355	130	35	19	8
38.013.91	550	229	8	19	8
38.013.90	550	229	12	19	8
38.014.15	550	229	15	19	8
38.014.01	550	229	20	19	8
38.014.02	550	229	29	19	8
38.018.99	550	229	38	19	8
38.011.10	600	255	20	19	8
38.011.28	600	255	28	19	8
38.017.26	600	255	36	19	8
38.017.42	600	255	42	19	8
38.016.00	700	300	25	22	10
38.016.01	700	300	42	22	10
38.016.02	700	300	55	22	10
38.018.01*	850	360	50	27	10
38.018.02*	950	400	70	27	10

* *Requires fixing plates: product numbers 38.012.99; 38.013.03*

Painted steel gas springs eye - ball

Made with chromed steel rod and epoxy-powder painted body. Resistant to the marine environment.

Code	Open mm	Stroke mm	Responce kg	Ø body mm	Ø rod mm	Ø ball mm
38.115.00	355	130	18	19	8	10
38.114.01	550	229	20	19	8	10
38.118.99	550	229	38	19	8	10
38.117.26	600	255	36	19	8	10

OSCULATI

Stainless steel gas springs eye – eye

AISI 316 fitted with **eye terminals with hole size 8 mm**.

Code	Open mm	Stroke mm	Response kg	Body mm	Rod Ø mm
38.009.00*	250	90	5	15	6
38.009.01*	250	90	10	15	6
38.009.03*	250	90	18	15	6
38.009.40	250	90	30	15	6
38.009.04*	355	130	12	18	8
38.009.05*	355	130	18	18	8
38.009.06*	355	130	24	18	8
38.009.07*	355	130	30	18	8
38.009.41	432	170	15	18	8
38.009.42	432	170	25	18	8
38.009.43	432	170	35	18	8
38.009.44	432	170	45	18	8
38.009.09*	500	210	14	18	8
38.009.11*	500	210	20	18	8
38.009.12*	500	210	30	18	8
38.009.15*	500	210	40	18	8
38.009.16*	500	210	50	18	8
38.009.17*	600	255	20	18	8
38.009.18*	600	255	30	18	8
38.009.19*	600	255	40	18	8
38.009.20*	600	255	50	18	8
38.009.23	700	300	25	22	10
38.009.24	700	300	35	22	10
38.009.25	700	300	45	22	10
38.009.26	700	300	55	22	10
38.009.27	900	380	45	22	10
38.009.29	900	380	60	22	10

OSCULATI

* **38.020.25** *OPTIONAL: SS head, 10-mm Ø ball*

Stainless steel gas spring with ball head

AISI 316 Composite ball terminals.

Code	Open mm	Closed mm	Stroke mm	Response kg	Body Ø mm	Rod Ø mm	Requested ball Ø mm
38.020.31*	254	178	76	9	15	6	10
38.020.32*	254	178	76	14	15	6	10
38.020.35*	305	216	89	20	15	6	10
38.020.40*	380	240	140	12	18	8	10
38.020.41*	380	241	140	18	18	8	10
38.020.42*	380	241	140	26	18	8	10
38.020.43*	380	241	140	38	18	8	10
38.020.45*	500	295	205	20	18	8	10
38.020.46*	500	295	205	29	18	8	10
38.020.47*	500	295	205	38	18	8	10
38.020.48*	600	345	255	20	18	8	10
38.020.49*	600	345	255	30	18	8	10
38.020.50*	600	345	255	40	18	8	10
38.020.51	700	401	299	30	22	10	10
38.020.52	700	401	299	45	22	10	10
38.020.55**	922	536	386	60	22	10	10

OSCULATI

* **38.020.25; 38.012.00** *OPTIONAL SS head, 10-mm Ø ball*

** **38.020.55** *OPTIONAL SS heads*

Stainless steel gas spring eye – eye ALROSE

Fitted with eye terminals made of **stainless steel with 8-mm bore**. They match plates in our catalogue. Fitted with **air-relief valve** designed to vary the reaction load.

Code	Open length mm	Stroke mm	Reaction kg*		Body Ø mm	Rod Ø mm
			from	to		
38.020.03	355	130	10	40	18	8
38.020.07	500	200	10	50	18	8
38.020.09	600	255	10	50	18	8
38.020.11	730	315	20	70	23	10
38.020.14	950	400	20	200	28	14

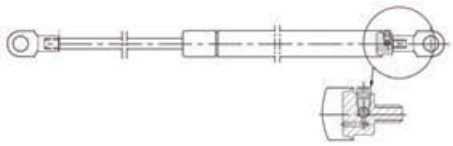
* ***State the kg required reaction.***

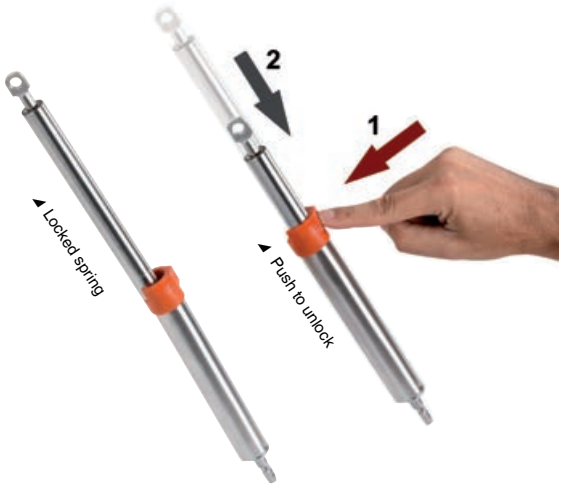
Eye-eye stainless steel gas spring with adjustable pressure setting

Fitted with **vent valve** for **perfect setting** of the elevated standard push-in force of the spring depending on the weight of the hatch/peak. Setting is possible only when fully extended. Fitted with stainless steel end eyelets, 8-mm Ø bore, and key for the vent valve.

Code	Open mm	Stroke mm	Basic push-in force kg	Body Ø mm	Rod Ø mm
38.010.00*	272	81	40	15	6
38.010.03*	377	132	70	18	8
38.010.07*	522	205	70	18	8
38.010.09*	622	255	70	18	8
38.010.11	752	315	120	23	10
38.010.14	972	415	160	28	14

* **38.020.25** *OPTIONAL: SS head, 10-mm Ø ball*





Safety automatic lock for gas springs

It automatically locks the spring at its maximum extension and releases it with a single movement. This safety device prevents hatches from closing unintentionally in case of rolling or pitching. AISI316 stainless steel body.

NB: 1)The addition of this lock increases the spring declared length by 25 mm.
2) In case of mounting in pairs, order extension 38.040.90.]

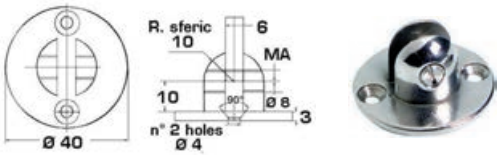
Code	Matching springs	Spring characteristics		New length with lock mm	25-mm extension for second spring OPTIONAL
		Length mm	body Ø mm		
38.040.01	38.009.04/05/06/07; 38.020.03	355	18	380	**38.040.90**
38.040.03	38.020.45/46/47	500	18	525	**38.040.90**

► Gas spring fixing plate and bases

OSCULATI

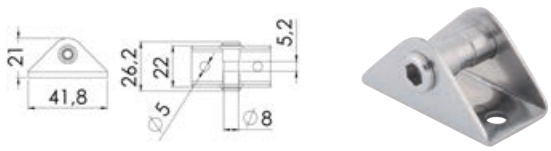
fork base

AISI 316



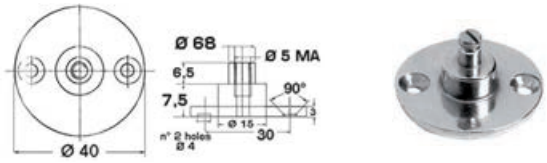
Code	Fork pin mm
38.013.66	6
38.013.68	8

Deluxe fork base



Code	Fork pin mm
38.013.27	8

Pin base



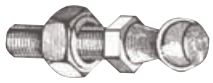
Code	Fork pin mm
38.013.56	6
38.013.58	8

Deluxe base with pin

Code	Fork pin mm
38.013.28	8

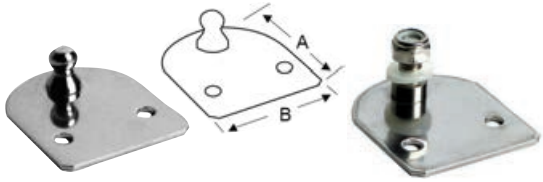
Steel ball for snap mounting of gas springs

Code	Ball-Ø mm
38.012.00	10



Fastening plates, flat version

Code	A mm	B mm	Type	Version
38.013.00	60	50	standard	threaded pin 8 mm
38.013.40	60	50	standard	ball Ø 10 mm
38.012.99	60	50	standard	threaded pin 8 mm, length 23 mm, **only** for gas springs 38.018.01; 38.018.02
38.013.20	45	35	compact	threaded pin 8 mm
38.013.21	45	35	compact	ball Ø 10 mm



◢ 38.013.21/40

◢ 38.012.99; 38.013.00/20

Flat fastening plates, 90° version

Code	A mm	B mm	C mm	Size	Version
38.013.01	30	50	30	Standard	**External** 8-mm threaded pin
38.013.02	30	50	30	Standard	**Internal** 8-mm threaded pin
38.013.41	30	50	30	Standard	**External** 10-mm Ø ball
38.013.42	30	50	30	Standard	**Internal** 10-mm Ø ball
38.013.03	30	50	30	Standard	**External** 8-mm threaded pin, 23-mm long, for 38.018.01/02
38.013.23	25	35	25	Compact	**External** 8-mm threaded pin
38.013.25	25	35	25	Compact	**Internal** 8-mm threaded pin
38.013.24	25	35	25	Compact	**External** 10-mm Ø ball
38.013.26	25	35	25	Compact	**Internal** 10-mm Ø ball

◢ 38.013.42/26

◢ 38.013.02/25

◢ 38.013.41/24

◢ 38.013.01/03/23

Fastening plates, embossed version

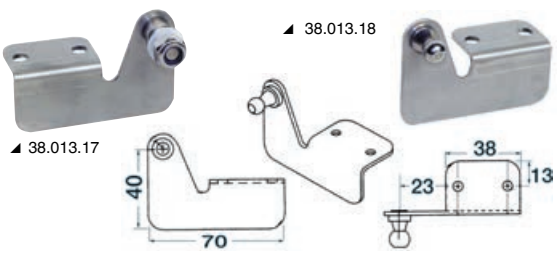
Code	A mm	B mm	C mm	Version
38.013.10	55	48	10 (overhang)	8-mm Ø threaded pin
38.013.11	55	48	10 (overhang)	10-mm Ø ball

◢ 38.013.10

◢ 38.013.11

Fastening plates, angle emossed version

Code	Version	Type
38.013.16	threaded pin 8 mm	left
38.013.17	threaded pin 8 mm	right
38.013.18	ball Ø 10 mm	left
38.013.19	ball Ø 10 mm	right



◢ 38.013.18

◢ 38.013.17

► Powered Stays

◄ 38.376.01/02

◄ 38.376.06

LENCO linear powered stay

Linear stay thrust: 225 kg.
60-cm cable with Deutsch plug.
Extension cables available (51.259.xx).
Stainless steel quick release plug.
It can work in pairs (use switch 38.376.02).
100% rustproof parts.
Friction system to prevent end-of-stroke burning (extended and retracted).
Current draw: 10A (12V), 5A (24V).

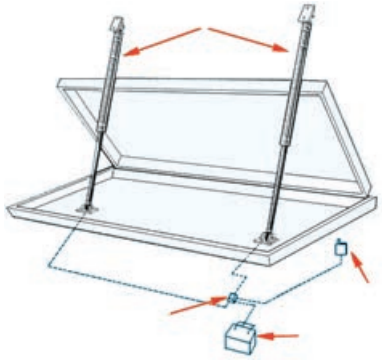
Code	LENCO code	Model	V	Total length when retracted (bracket to bracket) mm	Stroke mm	Total length when extended mm
38.374.64	20764-001	HL-800S	12	508	204	712
38.374.66	20766-001	HL-800	12	610	204	813
38.374.68	20768-001	HL-1200S	12	610	305	915
38.374.70*	20770-001	HL-1200	12	737	305	1042
38.374.74*	20774-001	HL-1600S	12	737	407	1143
38.374.76	20776-001	HL-1600	12	839	407	1245
38.374.78	20778-001	HL-2000S	12	839	508	1347
38.374.80	20780-001	HL-2000	12	940	508	1448
38.374.82	20782-001	HL-2400S	12	940	610	1550
38.374.84*	20784-001	HL-2400	12	1042	610	1651
38.374.86*	20786-001	HL-2600	12	1194	661	1855
38.375.65	20765-001	HL-800S/24V	24	508	204	712
38.375.69	20769-001	HL-1200S/24V	24	610	305	915
38.375.79*	20779-001	HL-2000S/24V	24	839	508	1347
38.375.83	20783-001	HL-2400S/24V	24	940	610	1550
38.375.87	20787-001	HL-2600S/24V	24	1194	661	1855

* *Available only upon order*

38.376.01 *Switch for single jacks.*

38.376.02 *Switch to operate **two** actuators at the same time*

38.376.06 *OPTIONAL Bracket for emergency opening in case of current failure. The housing can be lifted by 12.7 cm and the lock plug can be pulled out.*



Powered stay for hatches type AV, designed for heavy loads

Body Ø 48 mm, maximum thrust for a single actuator: 120 kg; manual emergency opening, electronic system, if mounted in **pairs** or a **higher number** it balances the engine cycles to provide a synchronous lift, speed 17 mm/sec. **Aluminium** body and stainless steel telescopic stem, water resistant IP65; total or partial hatch opening in all desired positions.

Code	Single type	Double type	Travel mm	Thrust kg	Closed length mm	volt	Amp absorption
38.370.12	x	-	300	120	677	12	10
38.370.13	x	-	300	120	677	24	5
38.370.14	x	-	450	120	827	12	10
38.370.15	x	-	600	120	977	12	10
38.370.21	x	-	450	120	827	24	5
38.370.16	x	-	600	120	977	24	5
38.370.17	-	x	450	240	827	12	20
38.370.18	-	x	600	240	977	12	20
38.370.19	-	x	450	240	827	24	10
38.370.20	-	x	600	240	977	24	10

38.370.10/11 *OPTIONAL relay box*

Powered stay for hatches type model Ulysses designed for light loads

Electrical linear single mounting stay, 34-mm Ø body, 65-kg maximum thrust, absorption 2 A at 12 V, speed 4 mm/sec at 12 V, 6 mm/sec at 24 V. Fitted with **aluminium** body and stainless steel telescopic stem, water resistant IP65. Total or partial hatch opening in all desired positions.
They cannot be mounted in pairs.

Code	Travel mm	Thrust kg	Closed length mm	volt
38.370.40	180	65	486	12
38.370.41	180	65	486	24
38.370.43	300	65	608	12
38.370.44	300	65	608	24

Relay boxes enable cycle inversion and synchronization

Code	Version
38.370.10	12 V (RB 12)
38.370.11	24 V (RB 24)

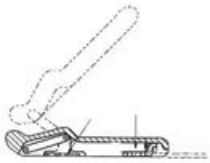
For switches with "O" in the middle and spring return, see the various models available on group 14 of this catalogue.

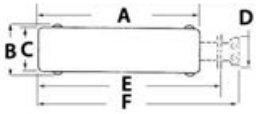
► Lever latches

Anti-vibration peak latch

With eccentric lever lock, made of **elastic thermorubber**, fitted with mounting plate and **stainless steel** hook.

Code	Colour	⟷ mm					
		A	B	C	D	E	F
38.200.00	White	96/106	31	29	22	118	129
38.200.01	Black	96/106	31	29	22	118	129

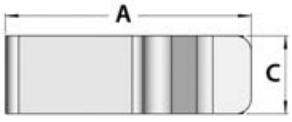


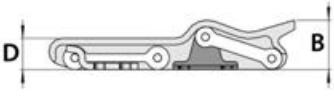


Locker anti-vibrating lock with stainless steel cover

With eccentric lever lock. Made of elastic thermo-rubber with mirror-polished stainless steel front. 6-mm spring travel.

Code	⟷ mm				Padlock eyelet
	A	B	C	D	
38.200.10	95	19	30	12	No
38.200.11	95	19	30	12	Yes

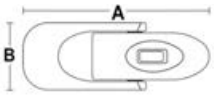


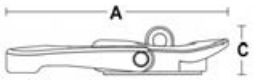


Locker latch

Made of technopolymer with padlock holder. Opening/closing fit with antivibration hidden snap spring.

Code	⟷ mm		
	A	B	C
38.208.50	111	40	17.5

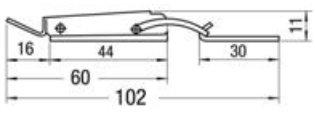


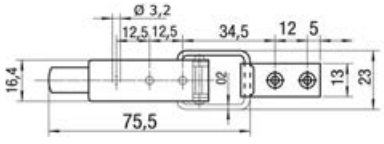


Stainless steel toggle fastener suitable for trunks and hatches

3.2-mm Ø fastening bores.

Code	Version	Length mm	Max pull kg	Max load kg
38.203.00	Standard	102	150	55
38.203.01	With padlock holder	102	150	55





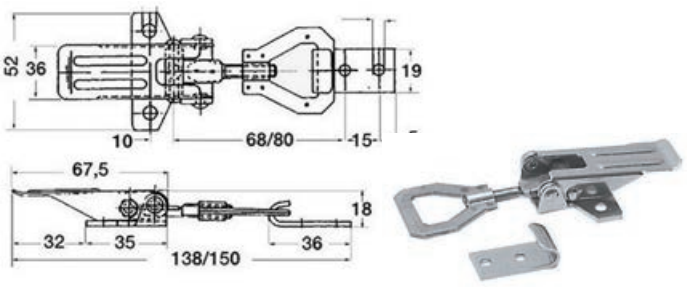
38.203.00

38.203.01

Stainless steel toggle fastener lockable

Code	Length mm	max traction kg	Max load kg
38.206.01	113	250	100

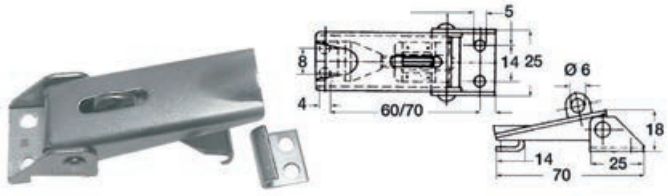
Locking with adjustable stainless steel lever



High strength model.

Code	Max working load kg	Max tension load kg
38.210.00	110	250

Adjustable faired lever latch



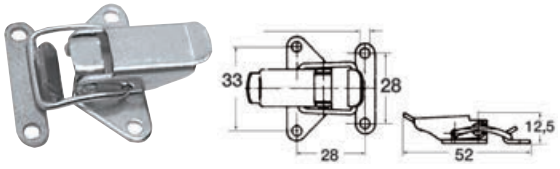
Made of stainless steel. Fitted with padlock ring.

Code	External fairing	Adjustable part	Size
38.241.00	70x25 mm	60x70 mm	18 mm

Stainless steel toggle fastener for peaks

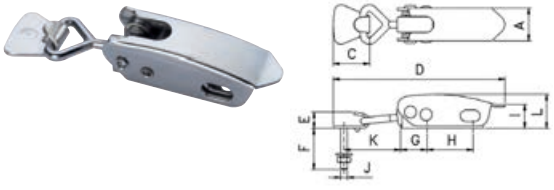
fully closed

Code	Length mm	Width mm	Overhang mm
38.493.00	99	18	11



Stainless steel toggle fastener suitable for trunks and hatches

Code	Length mm	Max traction kg	Max load kg
38.204.00	52	150	100



Elastic level lock

Made of polished stainless steel is equipped with padlock holder and has a internal compensating spring avoid all vibrations

Code	Length mm	A mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm
38.207.01	106	20	22	104	10	25	16	28	15	M4	34	21

Peak toggle fastener fitted with padlock eye

Adjustable up to 12 mm, made of **mirror polished stainless steel**.

Code	Length mm	Width mm	Run mm
38.209.00	110 (total)	30	12

OSCULATI

Toggle fastener SLIM series

AISI 316

Fitted with padlock eye; adjustable length; made of mirror polished AISI 316 stainless steel.

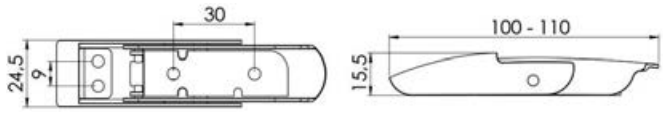
Code	Total length mm	Width mm	Size mm	Adjustable travel
38.208.01	82	20	18.8	4.5
38.208.02	115	30	16.5	13

RIVIERA lever latch

OSCULATI

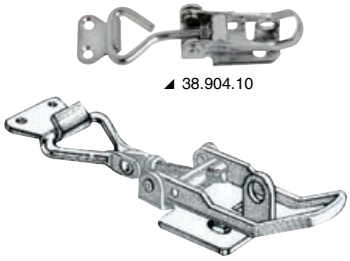
AISI 316

38.212.00 Made of polished stainless steel. Ready for locking with a padlock.



Adjustable stainless steel toggle fastener with padlock ring

Code	Length mm	Coupling mm	Padlock ring
38.904.10	from 75 to 90	18	Yes
38.904.12	from 100 to 125	25	No
38.904.11	from 123 to 137	29	Yes



Lock for hoods and hatches, 90° hook type, lightweight and sturdy

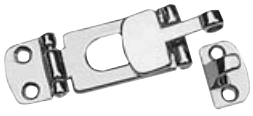
Locking for trunks, hatches, portholes, 90° coupling, light weight and sturdy.

Code	Material
38.107.70	chromed brass

Lever latch with screw-covering hinge

Made of **chromed brass**, fitted with padlock holder, safety system with screws protected by the hinge.

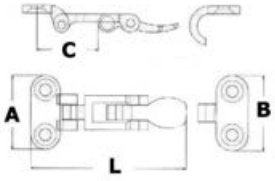
Code	⟷ mm
38.195.00	82x30



Lever closures

Locker latch with padlock ring

Code	Material	A mm	B mm	C mm	L mm
38.107.30	Chromed brass	50	50	42	110
38.107.31	**AISI 316 stainless steel**	48	48	42	110
38.107.32	**AISI 316 stainless steel**	37	38	30	75

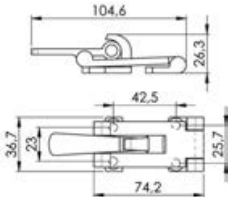


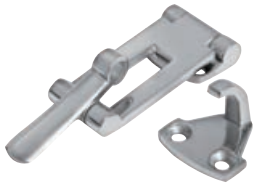
AISI316 lever fastener

AISI 316

Suitable for lockers. With eye for padlock

Code	Material
38.107.34	AISI 316 Stainless Steel

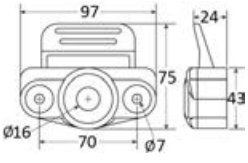


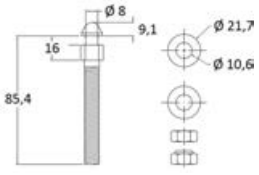


Hidden vertical lock

Ideal to lock and lift benches and outside kitchen furniture.

Code	Pin	Plastic handle
38.109.00	SS	Black
38.109.01	SS	White





► Hatch stays and brackets for lockers

Telescopic hatch adjuster, heavy duty

Code	Description	Range mm
38.191.40	chromed brass	320/500
38.191.41	chromed brass	360/640

Telescopic hatch adjuster

Code	Description	Range mm
38.191.50	Made of **chromed brass**. Very sturdy.	205/305

Extra-sturdy spring hatch stay

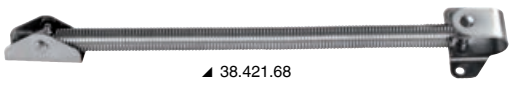
Made of **stainless steel**, fitted with spring **hatch** opening system, **supports heavy loads**, suitable for hatches and bilge peaks.

Code	Length mm	spring Ø mm	INCLUDED
38.421.67	350	22	2 fixing plates size 47x47 mm

Telescopic hatch stay

Made of **mirror polished stainless steel, telescopic version** with locking on each position by rotation the conical point.

Code	Adjustable mm
38.281.00	250/425
38.282.00	300/525

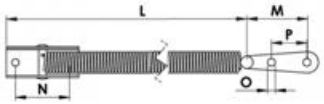


◢ 38.421.68

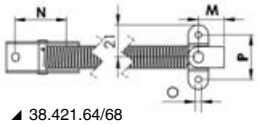
Spring hatch stay

Made of **stainless steel**, fitted with hatch opening spring, includes fork U-bolt and L shape plate. **Equipped with safety stainless steel cable to prevent the springs from stretching**.

Code	Teminal (1)	Terminal (2)	Length mm	Spring Ø mm	L mm	M mm	N mm	O mm	P mm
38.421.65	A	D	220	10.6	235	40	30	4.2	18
38.421.47	A	D	470	10.6	425	40	30	4.2	18
38.421.66	B	D	260	14	275	45	35	4.7	23
38.421.64	C	D	220	10.6	235	17	30	4.2	27
38.421.68	C	D	260	14.2	275	24	36	5.1	42



◢ 38.421.65/47/66



◢ 38.421.64/68

Mini gas spring

Made of **stainless steel**, designed to lift small hatches or kitchen furniture.

Code	Open size mm	Travel mm	Thrust kg
38.008.00	144	38	5

Telescopic hatch stay

Suitable for **nylon** portholes and hatches, fitted with **stainless steel** sliding rod; this special sliding system ensures an extraordinary locking and a remarkable travel at the same time.

Code	Travel mm
38.191.60	220/480

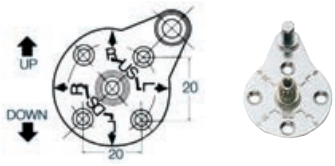
Ready to be used with plates 38.013.00; 38.013.01 included on the drawing..

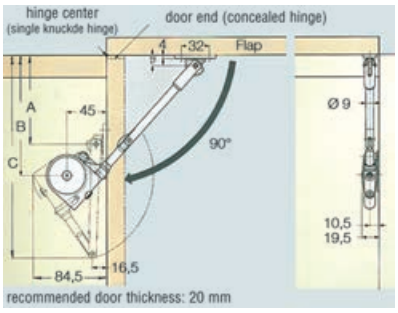
38.013.00; 38.013.01 *OPTIONAL Plates* ***sold separately***.

Soft Down Stay - upward window stay

Once the hatch is raised, the bracket keeps it under position, when is closed the bracket dampens the descending until the door is completely closed; colour: white, includes mounting plate, torsional moment calculation: **bracket**: door length (cm) x 1/2 x door weight (kg).

Code	For door	Mounting plate
48.610.00	90° opening	Included

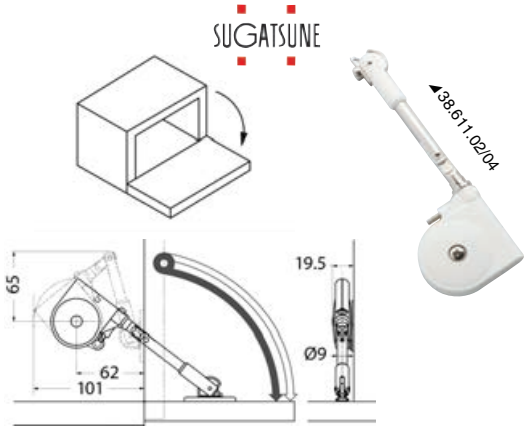




SUGATSUNE Soft Down Stay for opening downwards

Version with stopper. For doors **opening downwards**.
Soft-opening door (right or left opening).
The door has a **stopper** for **closed** position.
Torque calculation. Arm: length of door (cm) x 1/2 x weight of door (kg).

Code	Colour	Torque
38.611.01	Black	0.49 - 1.18 N•m (5 - 12 kgf•cm)
38.611.02	White	0.49 - 1.18 N•m (5 - 12 kgf•cm)
38.611.03	Black	1.62 - 3.68 N•m (16.5 - 37.6 kgf•cm)
38.611.04	White	1.62 - 3.68 N•m (16.5 - 37.6 kgf•cm)

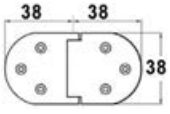


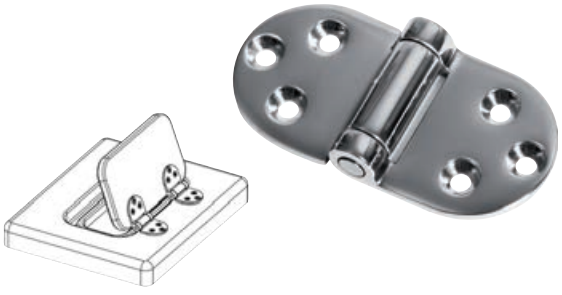
Self-supporting hinge

AISI 316

Made of precision-cast AISI 316 stainless steel.
Constant torque: 30 kg/cm ± 15%.
Example: 2 hinges hold a hatch 2-kg heavy and 40-cm deep.

Code	⟷ mm	Thickness mm
38.832.01	76x38	3.2





► Hinges by the metre

Hinges - 2-m bars

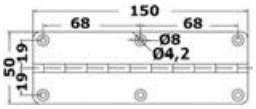
Made of mirror polished stainless steel.

Code	Width mm	Thickness mm	Bore Ø mm	Bore pitch mm	Centre distance mm	Type	Material
38.999.01	30	0.8	3.3	60	16	With bores	AISI304
38.999.02	40	1.5	4.3	90	23	With bores	AISI304
38.999.03	50	1.5	4.3	90	28	With bores	AISI304
38.998.01	30	1	3.3	60	16	With bores and countersunk	AISI304
38.998.02	40	1.5	4.3	90	23	With bores and countersunk	AISI304
38.998.05	30	1.5	3.5	50	19	With bores and countersunk	AISI 316

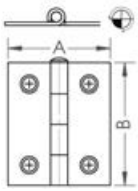
Short piano hinge

It can be used as single or multiple to replace the piano hinge.

Code	⟷ mm	Ø thickness mm
38.997.01	50x150	1.5



► Hinges 0.8 mm thickness



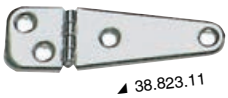
0.8-mm hinges

Made of **polished stainless steel**, designed for hatches, small peaks.

Code	⟷ AxB mm
38.600.25	25x30
38.600.30	30x30
38.600.40	40x40

► Hinges 1.2 mm thickness

◢ 38.823.10



◢ 38.823.11

◢ 38.823.12

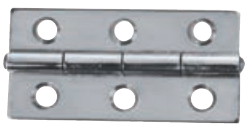
1.2-mm hinges

Made of pressed mirror polished **stainless steel**.

Code	⟷ mm
38.823.10	60x32
38.823.11	103x32 (asimetric)
38.823.12	145x32

► Hinges 1,3 mm thickness

◢ 38.822.02



◢ 38.822.01

◢ 38.822.04

◢ 38.822.03

1.3-mm hinges

rectangular hinges made of mirror polished **stainless steel**

Code	⟷ AxB mm
38.467.80	38x33
38.467.81	51x38
38.467.83	51x51
38.467.85	75x75

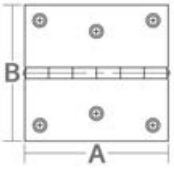
Code	⟷ AxB mm
38.822.01	60x30
38.822.02	60x40
38.822.03	75x40
38.822.04	75x50

◢ 38.467.80

◢ 38.467.81

◢ 38.467.83

◢ 38.467.85



► Hinges 1.5 mm thickness

1.5-mm hinges

AISI 316

◢ 38.829.00

◢ 38.829.02

Pressed polished AISI 316 stainless steel hinges, with relief flaring, screw holes 5 mm.

Code	⟷ mm
38.829.02	44x46
38.829.00	68x46

1.5-mm hinges

AISI 316

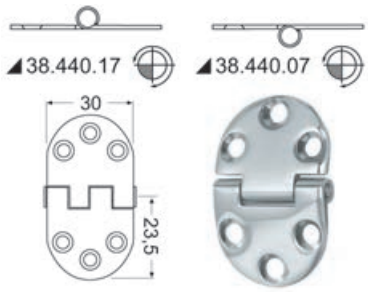
◢ 38.829.03

◢ 38.829.04

Pressed polished **AISI 316 stainless steel** hinges, with relief flaring.

Code	⟷ mm
38.829.03	73x46
38.829.04	102x46

Hinge 2 mm thickness



Made of stainless steel. Flush- or external-mount version.

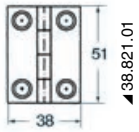
Code	⟷ mm	Type
38.440.17	47x30	standard pin
38.440.07	47x30	reversed pin

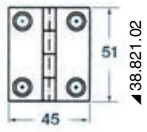
► Hinges 1.7 mm thickness

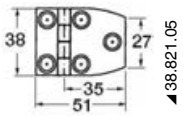
1.7-mm hinges

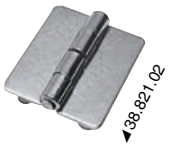
Made of **stainless steel without screws**, thickness of 1.7 mm, fitted with female bushing, threaded 4MA, welded under the hinge at the same position of the passing holes.

Code	⟷ mm	Shape	No. of bushings
38.821.01	51x38	Rectangular	4
38.821.02	51x45	Rectangular	4
38.821.05	51x38	Trapezoidal	6









Low-cost 1.7-mm hinges

Low-cost version, made of **stainless steel**, electrolytically polished finish.

Code	⟷ mm
38.491.30	51,5x38
38.491.00	70x38

1.7-mm hinges

Made of modelled **mirror polished stainless steel**, thickness of 1.7 mm.

Code	⟷ mm
38.467.90	101x27
38.467.89	101x38

► Hinges 2 mm thickness

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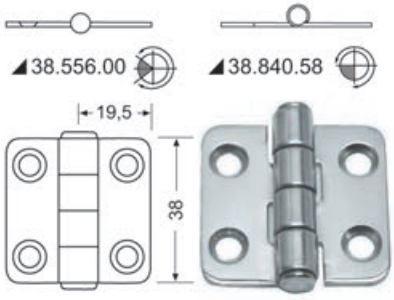
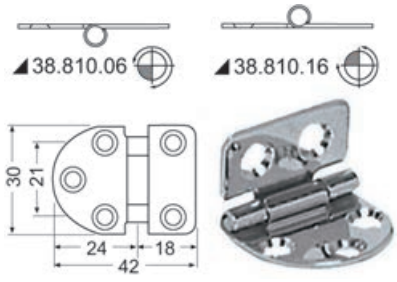
2-mm hinges thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.840.58	38x39	standard pin
38.556.00	38x39	central pin

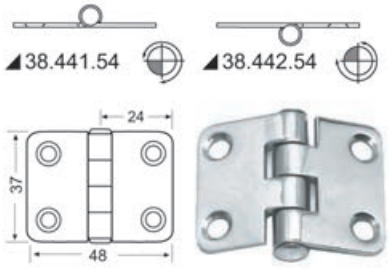
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.810.16	42x30	standard pin
38.810.06	42x30	reversed pin

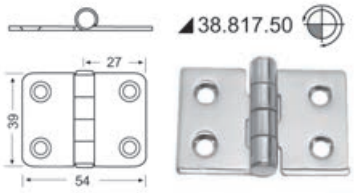
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.54	48x37	standard pin
38.442.54	48x37	reversed pin

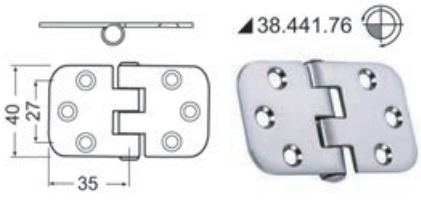
2-mm hinges thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.817.50	54x39	standard pin

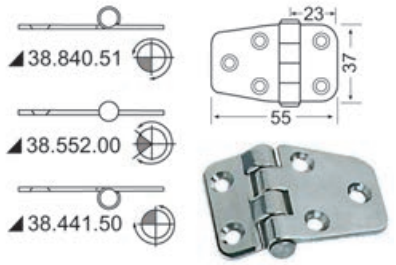
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.76	70x39	reversed pin

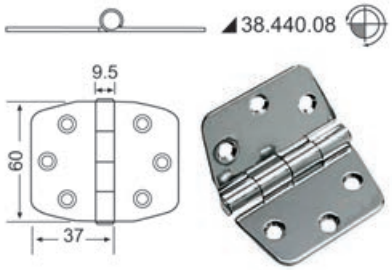
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.840.51	55x37	standard pin
38.441.50	55x37	reveresed pin
38.552.00	55x37	central pin

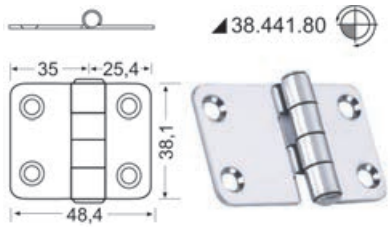
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.440.08	74x60	standard pin

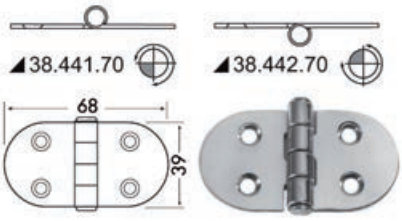
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.80	60,4x38,1	standard pin

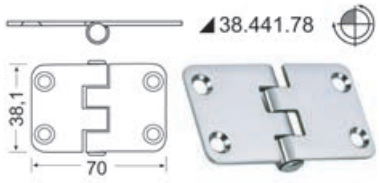
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.70	68x39	standard pin
38.442.70	68x39	reversed pin

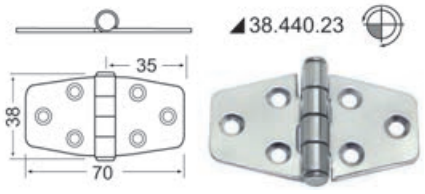
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.78	70x38,1	reversed pin

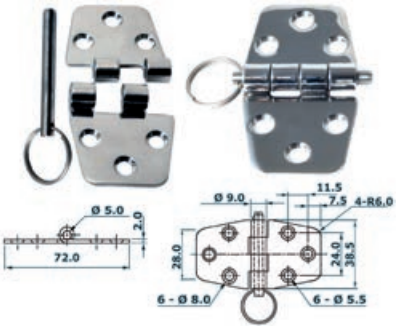
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.440.23	70x38	standard pin

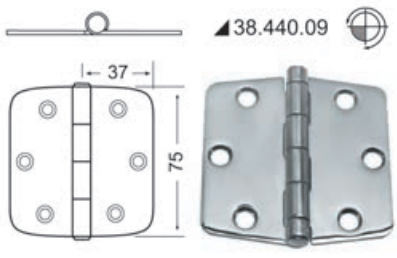
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.51	72x38,5	standard pin

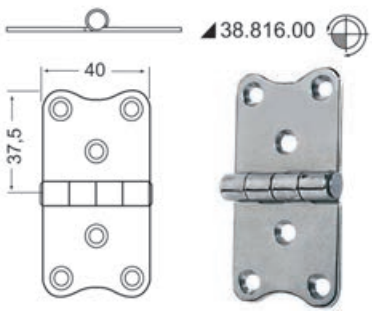
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.440.09	74x75	standard pin

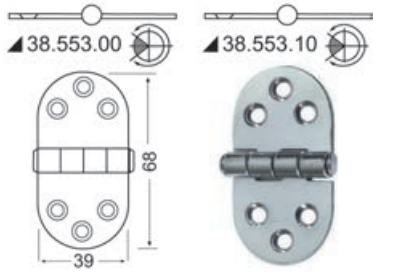
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.816.00	75x40	standard pin

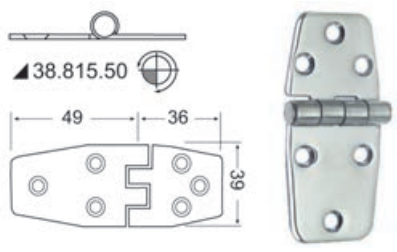
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Model
38.553.00	68x39	Semi-recessed
38.553.10	76x38	Semi-recessed

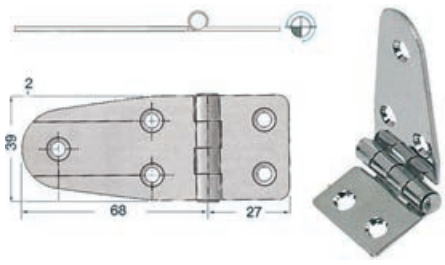
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.815.50	85x39	standard pin

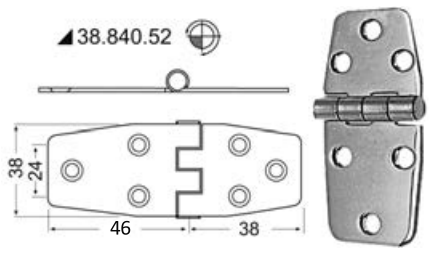
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.217.40	95x39	standard pin

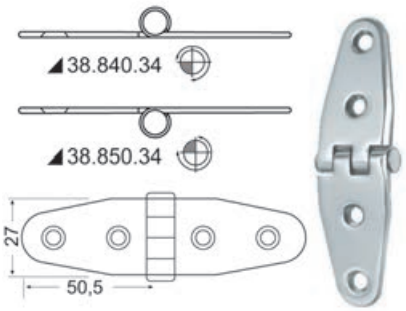
Hinges 2 mm hickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.840.52	84x38	standard pin

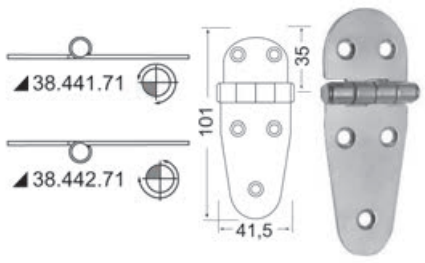
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.840.34	101x27	standard pin
38.850.34	101x27	reversed pin

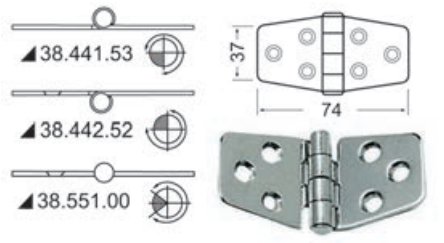
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.71	101x41,5	standard pin
38.442.71	101x41,5	reversed pin

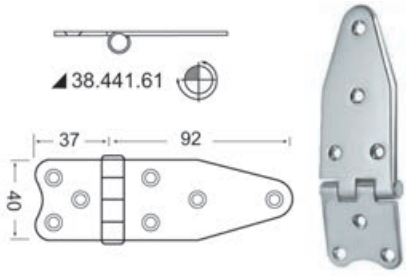
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.53	74x37	standard pin
38.441.52	74x37	reversed pin
38.551.00	74x37	central pin

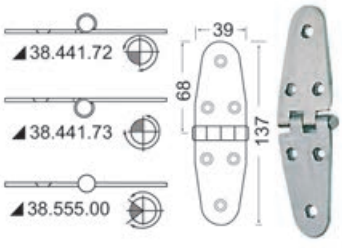
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.61	129x40	reversed pin

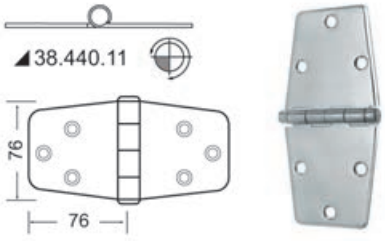
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.441.72	137x39	standard pin
38.441.73	137x39	reversed pin
38.555.00	137x39	central pin

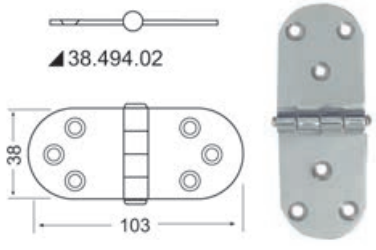
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Type
38.440.11	152x76	standard pin

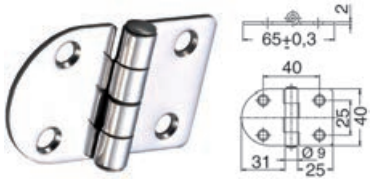
Hinges 2 mm thickness



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	Model
38.494.02	103x38	standard pin

Hinges 2 mm thickness



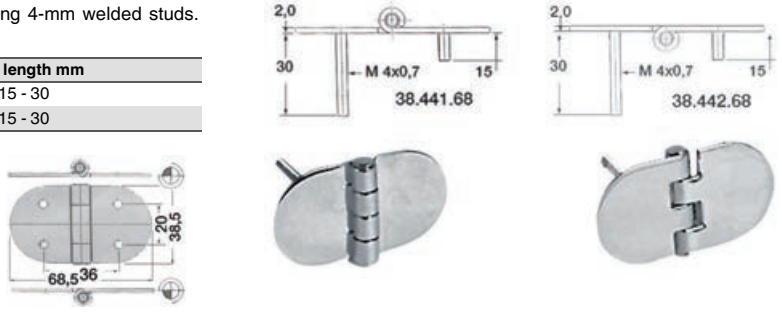
Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm	version
38.441.69	65x40	standard pin

Hinges with studs

Made of mirror polished stainless steel, with hidden mounting system using 4-mm welded studs. Vibration damping by means of a braked central axle.

Code	⟷ mm	Model	Stud length mm
38.441.68	68.5x38.5	standard pin	15 - 30
38.442.68	68.5x38.5	reversed pin	15 - 30



Hinges 2 mm thickness

Semi-embedded polished stainless steel hinge. Fitted with central oval bores to provide perfect centering. Designed for peak hinges. Vibration damping by means of a braked central axle.

Code	⟷ mm	Model
38.814.03	80x50	standard pin

◢ 38.840.10

◢ 38.551.10

◢ 38.840.42

AISI316 mirror polished stainless steel cover for hinges

Made of mirror polished stainless steel. Self-adhesive fastening, vibration damping by means of a braked central axle.

Code	Cover ref.	For hinge
38.441.10	1 pc for 1/2 hinge	**38.441.70; 38.553.00**
38.840.10	1 pc for 1/2 hinge	**38.840.58; 38.556.00**
38.551.10	1 pc for 1/2 hinge	**38.441.53; 38.551.00**
38.840.41	1 pair per hinge	**38.840.51; 38.552.00**
38.840.42	1 pair per hinge	**38.440.09**

◢ 38.840.41

◢ 38.441.10

◢ 38.441.10

► Oval hinges

◢ 38.450.01

◢ 38.450.02

◢ 38.450.03

◢ 38.450.04

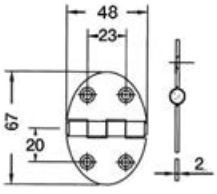
◢ 38.452.01;38.450.53

◢ 38.453.01/02

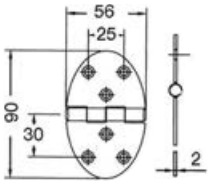
Oval hinges

Made of mirror polished stainless steel OVAL TYPE series; semi-embedded central axis; 270° opening.

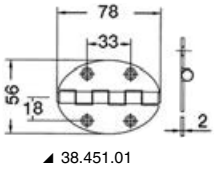
⟷ mm	With semi-embedded knuckle and stud mounting	With semi-embedded knuckle and screw mounting	With overhanging knuckle	Thickness mm
35x51	**38.453.01**	**38.450.01**	-	1.5
48x67	**38.453.02**	**38.450.02**	-	2
56x78	-	**38.450.03**	-	2
56x90	-	**38.450.04**	-	2
78x56	-	-	**38.451.01**	2
78x56	-	**38.450.53**	-	3
84x56	-	**38.452.01**	-	2



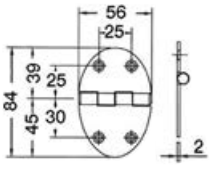
◢ 38.450.02/38.453.02



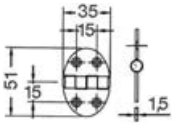
◢ 38.450.04



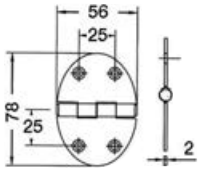
◢ 38.451.01



◢ 38.452.01



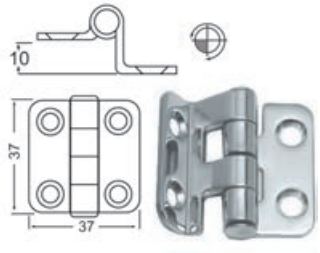
◢ 38.450.01



◢ 38.450.03

► Overhang hinges 2 mm thickness

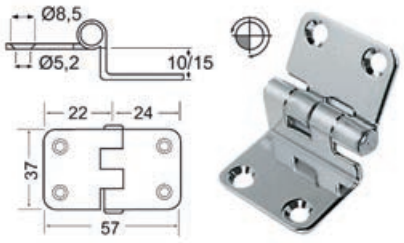
2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm
38.441.59	37x37

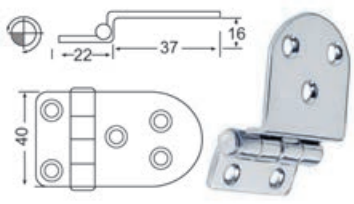
2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm
38.441.55	57x37x10
38.441.56	57x37x15

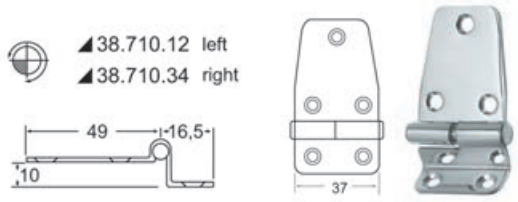
2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm
38.441.58	59x40

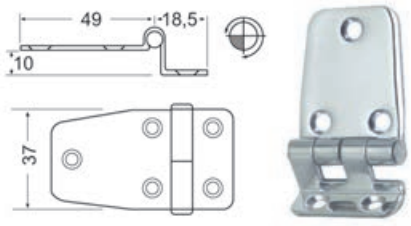
2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm
38.710.12	65,5x37
38.710.34	65,5x37

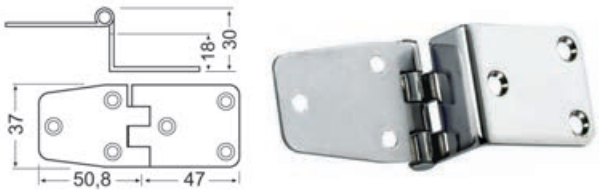
2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm
38.441.57	67,5x37

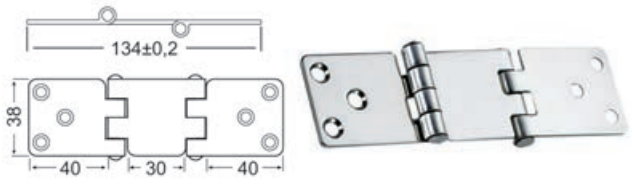
2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

Code	⟷ mm
38.441.84	97,8x37

2-mm overhang hinges



Made of mirror polished stainless steel. Vibration damping by means of a braked central axle.

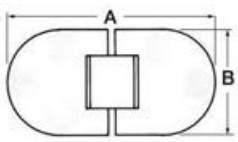
Code	⟷ mm
38.441.82	134x38

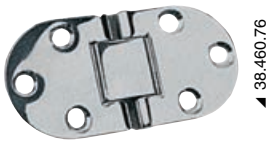
► Hinges 2 mm thickness foldable

Hinges 2 mm foldable

Made of mirror polished stainless steel. Flush design for folding tables. Fitted with precision-cast central unit.

Code	A mm	B mm
38.460.50	50	38
38.460.76	76	38
38.440.06	84	30

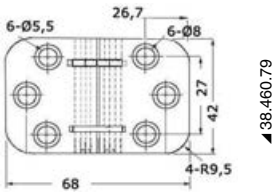


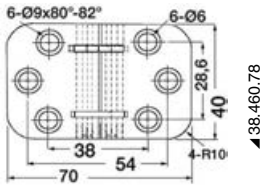


Hinges 2 mm foldable

Made of mirror polished stainless steel. Flush design for folding tables. Fitted with precision-cast central unit.

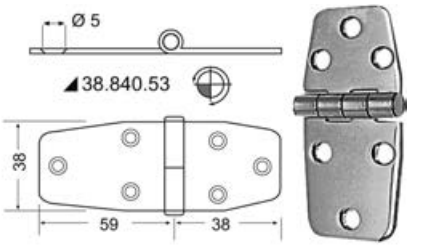
Code	⟷ mm
38.460.79	68x42
38.460.78	70x40





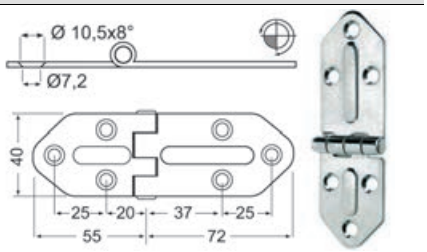
► Hinges 2,5 mm thickness

Hinges 2,5 mm



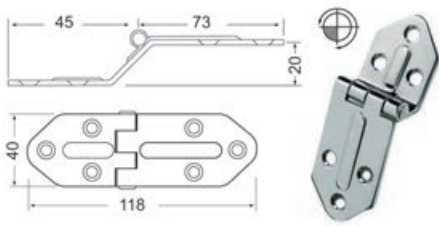
Code	⟷ mm	Type
38.840.53	97x38	standard pin

Hinges 2,5 mm



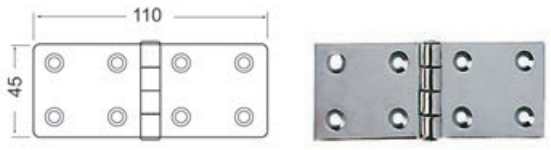
Code	⟷ mm	Type
38.444.00	127x40	standard pin

Hinges 2,5 mm



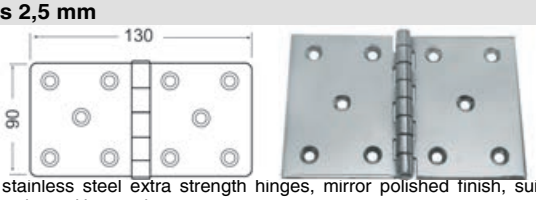
Code	⟷ mm	Type
38.445.05	118x40	standard pin

Hinges 2,5 mm



Code	⟷ mm
38.822.05	45x110

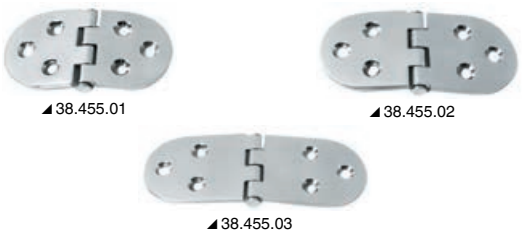
Hinges 2,5 mm



Special stainless steel extra strength hinges, mirror polished finish, suitable for engine trunks and heavy duty usage.

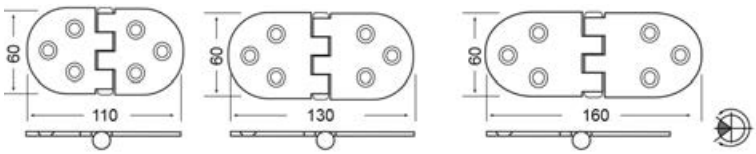
Code	⟷ mm
38.822.06	130x90

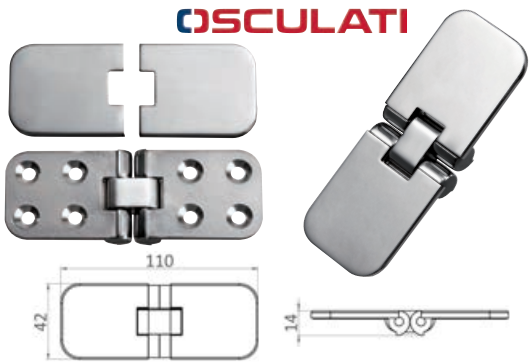
► Hinges 3 mm thickness



Hinges 3 mm; HEAVY DUTY

Code	Model	⟷ mm	Thickness mm
38.455.01	reversed pin	110x60	3
38.455.02	reversed pin	130x60	3
38.455.03	reversed pin	160x60	3





New **Foldable precision hinge, 180° rotation and screw cover**

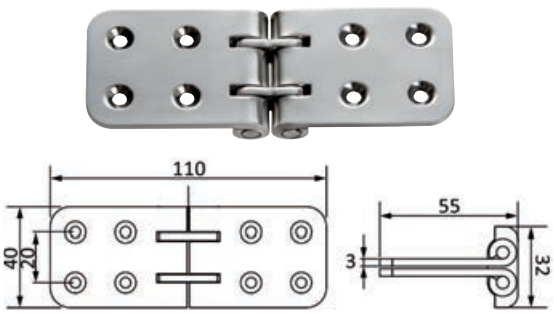
AISI 316

HIGH - PRECISION

INVISIBLE SCREW

Made of mirror-polish AISI316 stainless steel. For tip-top tables or hatches. Fitted with screw cover to be fixed after mounting for neat design.

Code	⟷ mm	Thickness mm
38.292.00	110x42	3

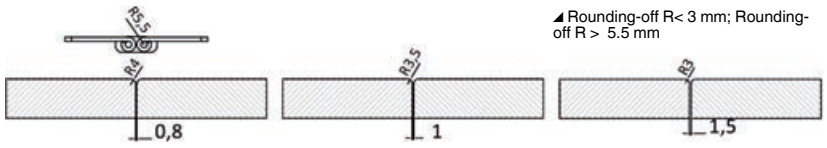


180° rotation tip-top precision hinge

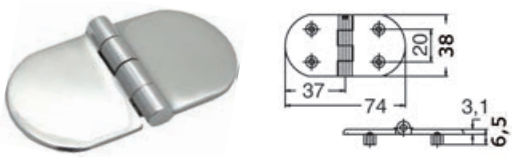
AISI 316

Made of mirror-polished AISI316L stainless steel. To be fixed to the edge of the table (19-mm thickness).
Designed for as little clearance as possible for a stable tip-top table.

Code	⟷ mm
38.291.00	110x40



◢ Rounding-off R< 3 mm; Rounding-off R > 5.5 mm



Precision-cast covered hinge

AISI 316

Mirror-polished AISI316 stainless steel hinge. Mounting from the lower side with 4 threaded bushings. SOFT seam friction, lids at both ends.

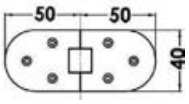
Code	⟷ mm
38.963.10	74x38

► Hinges 4 mm thickness

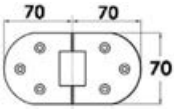
Precision microcast hinges, 180° rotation

AISI 316 Mirror-polished AISI 316 stainless steel. Suitable for hatches and tilting tops.

Version with bores	Blind version with 5-mm studs (optional)	⟷ mm	Thickness mm
38.290.01	**38.290.10**	80x30	3
38.290.02	**38.290.20**	100x40	4
-	**38.290.30**	140x70	2.8
38.460.75	**38.460.77**	140x70	2.8

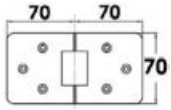


◢ 38.290.02/20



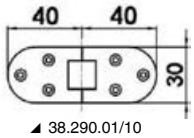
◢ 38.460.75/77

◢ 38.460.75



◢ 38.290.30

◢ 38.290.30

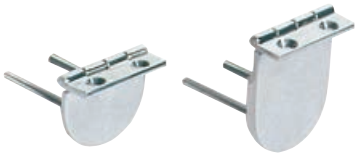


◢ 38.290.01/10

Hinges 4 mm

AISI 316 Precision-cast mirror-polished AISI316 stainless steel hinges, very sturdy. Ideal for engine trunks and cockpit floor opening (the 21x65-mm side has to be mounted vertically).

Code	⟷ mm
38.863.25	72x65
38.863.26	103x65

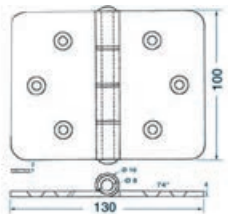


Hinges 4 mm

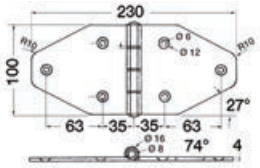
AISI 316 Maxi hinges, made of mirror polished AISI 316 stainless steel, 8 mm pin.

Code	⟷ mm
38.440.13	130x100
38.440.14	230x100
38.440.15	180x100

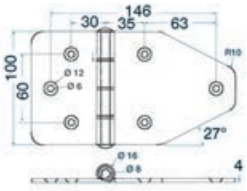
◢ 38.440.13



◢ 38.440.14



◢ 38.440.15



► Hinges 5 mm thickness

Hinges 5 mm thickness

AISI 316 Cast mirror-polished AISI316 stainless steel hinges. Very sturdy, accurate finish.

Code	⟷ mm	Pin	Thickness mm
38.285.00	38x74	protruding	5
38.280.00	38x100	protruding	5
38.283.00	38x38	protruding	5
38.284.00	50x50	protruding	5
38.287.00	38x74	flush	5
38.831.00	39x74	protruding	5
38.831.01	38x57	protruding	5
38.831.02	38x57	reversed	5

◢ 38.280.00;38.285.00

◢ 38.287.00

◢ 38.283.00;38.284.00

◢ 38.831.00

◢ 38.831.01

◢ 38.831.02

Hinges 5 mm thickness

Cast mirror-polished AISI316 stainless steel hinge designed for doors and removable trunks, high quality finish.

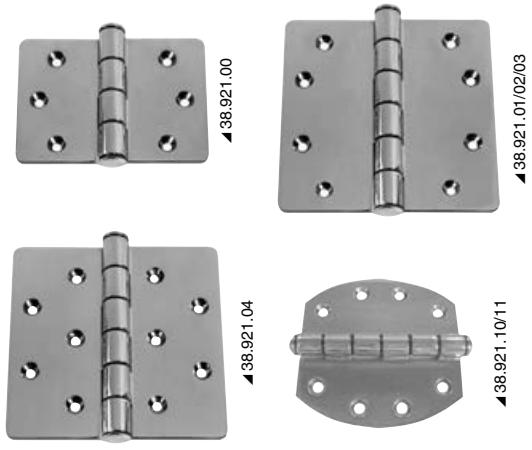
Code	⟷ mm	Version
38.512.00	100x50	right
38.512.01	100x50	left

Hinges 5 mm thickness

Cast hinges "long wing" made of mirror polished **stainless steel**.

Code	Length mm
38.830.15	152x29

► Stainless Steel hinges - Investment Cast

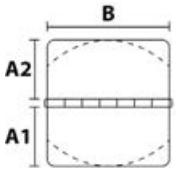


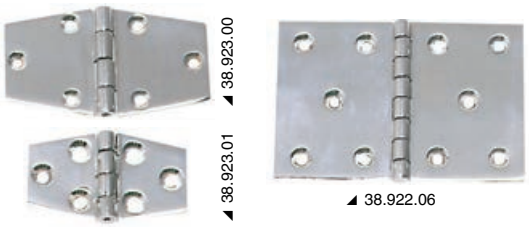
Mega precision-cast hinges

AISI 316

Made of **mirror polished AISI 316 stainless steel**; very sturdy, anti-friction nylon inserts.

Code	Shape	⟷ mm			Thickness mm
		A1	A2	B	
38.921.00	rectangular	38	38	76	3
38.921.01	rectangular	38	38	102	3
38.921.02	rectangular	51	51	102	3
38.921.03	rectangular	63	63	127	3
38.921.04	rectangular	76	76	152	4.8
38.921.10	rounded off	51	51	102	3.2
38.921.11	rounded off	63	63	127	3.2



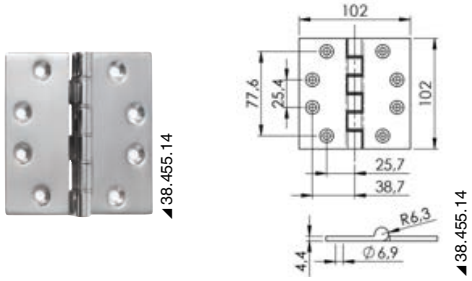


Precision-cast hinges

AISI 316

Made of **AISI 316 stainless steel**, high strength, fine design, mirror polished finish.

Code	Shape	⟷ mm	Thickness mm
38.923.00	trapezoidal	96x56	4
38.923.01	trapezoidal	62x37	3.5
38.922.06	rectangular	130x90	4

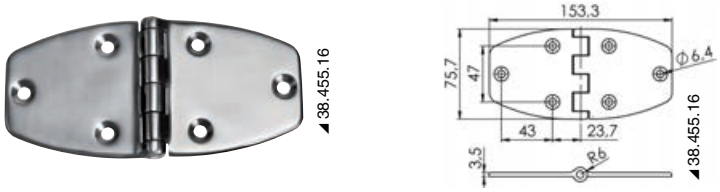


Precision-cast hinge

AISI 316

Made of very sturdy mirror-polished AISI316 stainless steel.

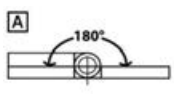
Code	Model	⟷ mm	Thickness mm
38.455.14	Rectangular	102x102	4
38.455.16	Trapezoidal	153x75	3.6



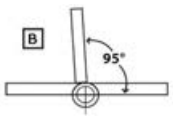
Hinges

AISI 316

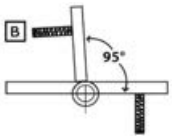
Made of precision cast mirror polished **AISI316 stainless steel**, very sturdy, 4-mm thickness. Available versions: standard “A” version with 180° opening, or "B" version with overturned knot and completely smooth surface with 95° opening. Available in the following sizes.



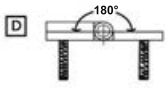
A) 180° standard opening



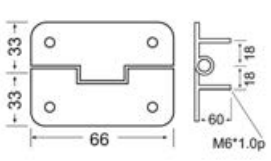
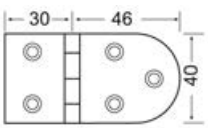
B) Overturned knot, smooth surface, 95° opening

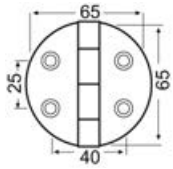
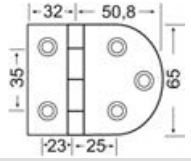
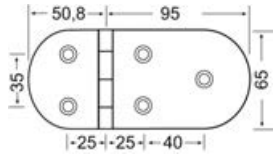
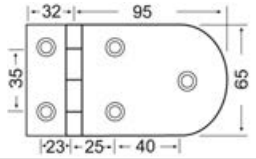
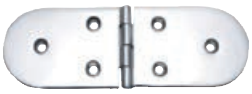
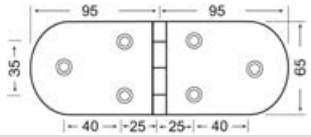
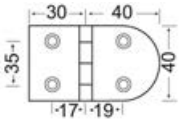
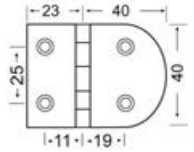
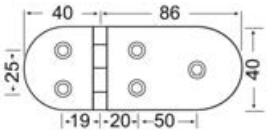
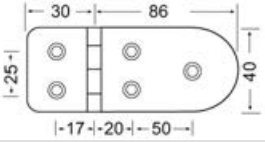
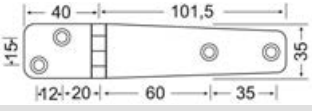
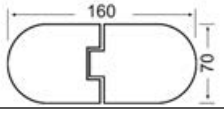


C) Overturned knot, smooth surface, 95° opening **with studs**

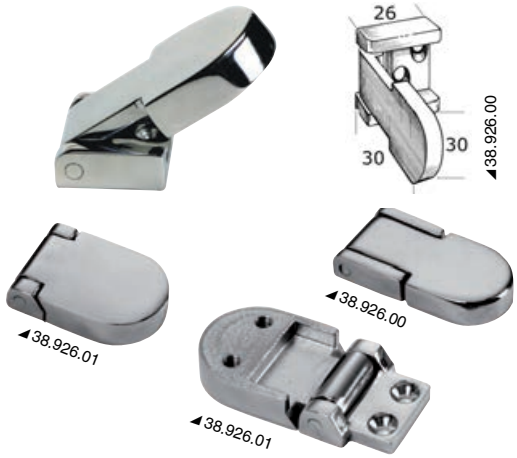


D) 180° standard opening **with studs**

A	B	C	D	⟷ mm
38.963.18	**38.863.18**	**38.873.18**	**38.883.18**	66x66
				
38.963.19*	**38.863.19**	**38.873.19**	**38.883.19**	76x40
				

A	B	C	D	⟷ mm
38.963.20	38.863.20	38.873.20	-	65x65
			-	
38.963.21	38.863.21	38.873.21	-	83x65
			-	
38.963.22	38.863.22	38.873.22	-	145x65
			-	
38.963.23	38.863.23	-	-	128x65
		-	-	
38.963.24	38.863.24	38.873.24	-	190x65
			-	
38.963.30	38.863.30	38.873.30	38.883.30	70x40
				
38.963.31	38.863.31	38.873.31	-	63x40
			-	
38.963.32	38.863.32	38.873.32	38.883.32	126x40
				
38.963.33	38.863.33	-	-	116x40
		-	-	
38.963.40	38.863.40	38.873.40	-	141x29
			-	
-	-	38.873.50	-	160x70
-	-		-	

* *135° opening.*

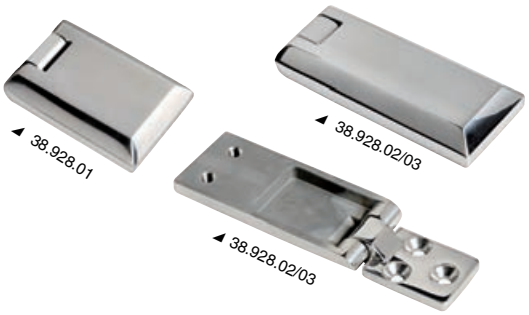


Hatch hinges

AISI 316 Made of **mirror polished AISI 316 stainless steel**.

Code	Size closed mm	Thickness mm	Wall mount mm	Door mount mm
38.926.01	45x30	10	25x30	20x30
38.926.00	57x30	10	26x30	30x30
38.926.02	70x30	10	39x30	31x30

OSCULATI

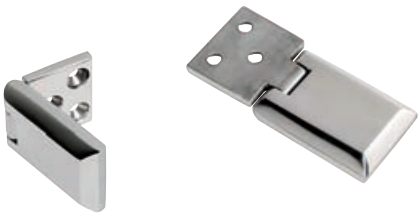


Hinge PIRAMID for hatches

AISI 316 Made of mirror polished AISI 316 stainless steel

Code	A x B mm	C mm	D x E mm	F x B mm
38.928.01	45x30	8.2	14x23	60x30
38.928.02	70x30	10	30x23	100x30
38.928.03	95x40	10	40x30	135x40

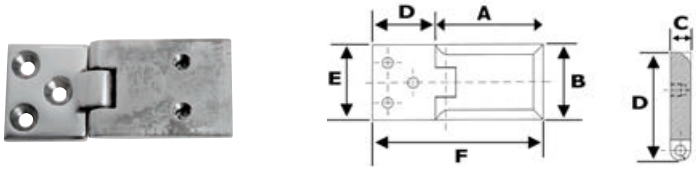
OSCULATI



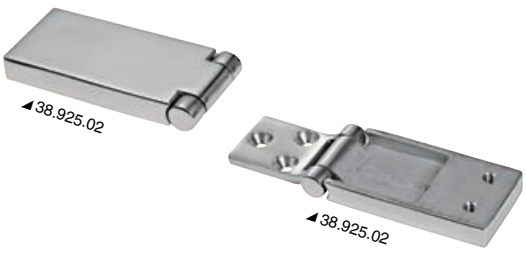
Hinge for 90° Piramid doors

AISI 316 Mirror-polished AISI 316 stainless steel. Wall mounting.

Code	A x B mm	C mm	D x E mm	F x B mm
38.929.01	43x30	8	25x30	68x30



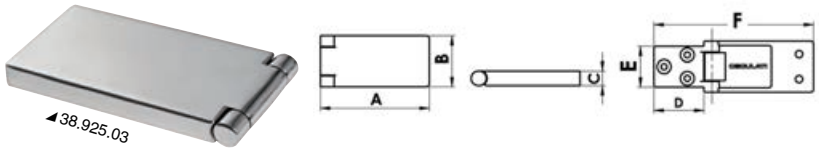
OSCULATI



Built-in hinge for hatches

AISI 316 Mirror-polished AISI 316 stainless steel.

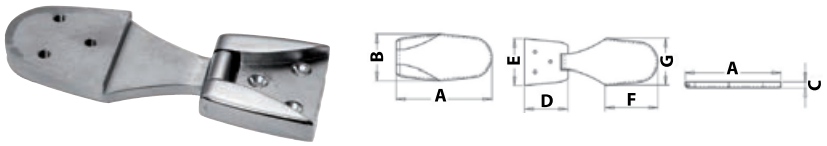
Code	AxB mm	C mm	DxE mm	F mm
38.925.02	75x35	10	34x28	110
38.925.03	100x50	10	47x40	148



Hatch hinges

AISI 316 Made of **mirror polished AISI 316 stainless steel**.

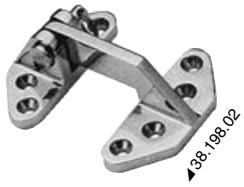
Code	AxB mm	C mm	DxE mm	FxG mm
38.927.01	70x36	10	35x36	35x35
38.927.02	90x47	10	45x47	45x46



Hinges for hatches and engine boxes

AISI 316 Made of **mirror polished AISI 316 stainless steel, fitted with removable pin.**

Code	⟷ mm
38.198.01	67x73
38.198.02	88x73

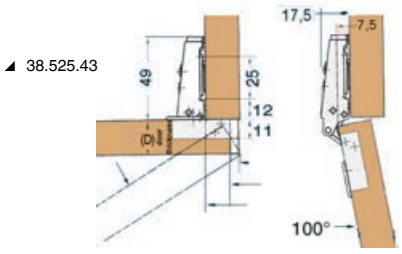


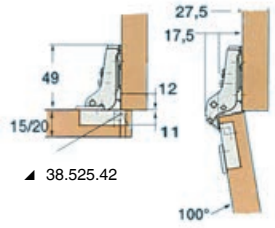
► Hinges for hatches

SUGATSUNE spring hinges for cabinet doors

Made completely of stainless steel; fitted with **nylon** cleat to adjust the step.

Code	Version	⟷ hinge over all mm	Surface plate, all out mm	For doors thickness mm
38.525.42	With half overlapping door on the frame (5-9 mm)	94x54	41x44	15/20
38.525.43	With total overlapping door on the frame (15-19 mm)	94x54	41x44	15/20

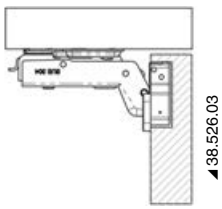


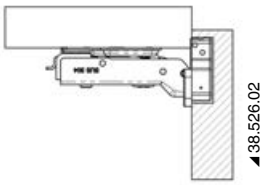


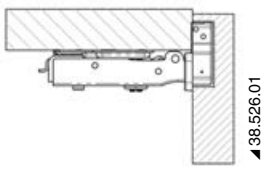
Spring hinges for Soft Close cabinet doors

SOFT CLOSE Made completely of stainless steel. 105° opening. When exceeding 45° opening, the door stays open in any position. **Soft Close braked** closure. Fitted with click-in device for quick release of the hatch.

Code	Version	⟷ hinge over all mm	Surface plate, all out mm	For doors thickness mm
38.526.01	Full Overlay	110x64	47x54	14/24
38.526.02	Half Overlay	110x64	47x54	14/24
38.526.03	Inset	110x64	47x54	14/24



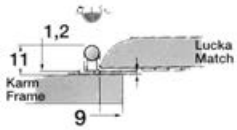


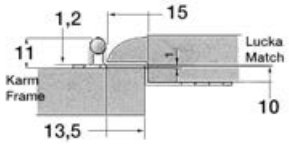


Stainless steel hatch hinges

It is advisable to use stopper model 38.107.41 or similar models for locking.

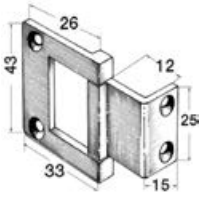
Code	Type	⟷ mm	For hatches
71.607.00	with overhanged part of 10 mm	57x44	71.607.20; 71.607.22; 71.607.24; 71.607.26
71.607.01	no overhang	38x46	flat stop





Eccentric hinges for long neck hatches

AISI 316 **38.924.00 Made of mirror polished AISI 316 stainless steel.**



► Brass hinges

Die-cast hinges

Made of **chromed brass**, designed for seats, hatches, doors etc. Very sturdy. 7-mm pin.

Code	⟷ mm
38.823.00	100x60

Hinges for ladders

Made of die-cast **chromed brass**, very sturdy.

Code	⟷ mm
38.825.00	145x20x15

Hatch hinge

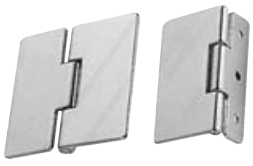
Made of **chromed brass**.

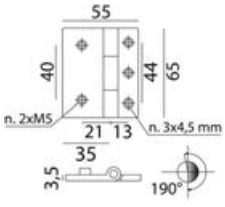
Code	⟷ mm	stop mm
38.825.02	96x59x70	8

Hinge for hatch

Made of **chromed brass**, designed for hatch opening.

Code	Length mm	Height mm
38.825.01	110	40

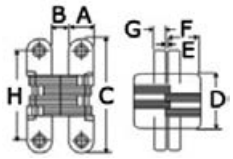




Hidden-screw hinge

Made of **chromed brass, no screws**, mounting from underneath with studs.

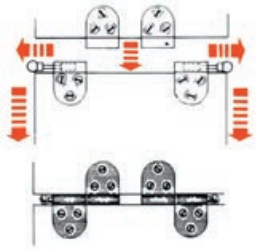
Code	⟷ mm	Wings	Opening
38.819.01	65x55	unequal, for fixing onto the rope on the stop	190°

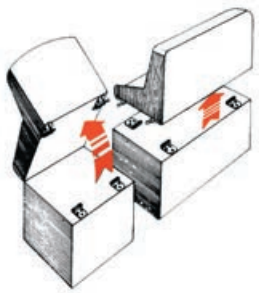


Hidden hinges for AISI 304 doors and hatches

HInges for built-in doors, 180° opening. Satin finish.

Code	Bearable weigth kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	ORDER BY BOX
38.527.03	7	12.4	11.5	44.5	12	0.5	16.7	1.5	32	2
38.527.04	10	13.3	9.5	53	16	0.5	18.5	2	40	2
38.527.05	20	15.7	10.5	69	21	0.8	19	3	52	2
38.527.06	30	18.5	14	84	28	0.8	24	4	64	2





Hinges fitted with slip-off spring lock

38.983.00 Made of **chromed brass** with **stainless steel** pin and spring. Ideal for a fast removal of hatches, doors, seats, etc. without using any tools.
Sold in pairs (right and left) two male parts + two female parts.

"Flush Deck" hinges for small hatches

No overhang part, made of **chromed brass**.

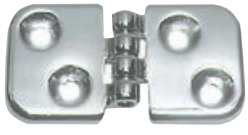
Code	⟷ mm
38.196.00	34x28

Asymmetrical hinges

Made of **chromed brass**.

Code	⟷ mm
38.187.00	103x32

Hinge



Made of **chromed brass**. 270° opening angle.

Code	⟷ mm
38.188.00	60x32

Ladder hinge with hook support

38.569.00 Made of **chromed brass**; fitted with snap-in safety to lock the ladder, **stainless steel** spring.

Ladder hook

38.570.00 Made of **chromed brass** and fitted with **chromed brass** support.

► Plastic hinges

Hinges

Made of reinforced **nylon**.

white	Black	Length mm	Width mm
38.823.81	**38.823.80**	38	38
38.823.71	**38.823.70**	54	38
38.823.31	**38.823.30**	65	40
-	**38.823.60**	82	26
38.823.21	**38.823.20**	98	65

◢ 38.823.71

◢ 38.823.81

◢ 38.823.31

◢ 38.823.20

◢ 38.823.21

◢ 38.823.30

◢ 38.823.60

◢ 38.823.70

◢ 38.823.80

► Hollow tile locks and closures

Hollow tile plate doorstop or cabinet doorstop

Made of **chromed brass**.

Code	⟷ mm
38.148.00	52x33

Hollow tile lock

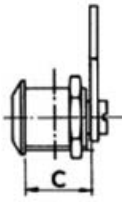
Made of **chromed brass**, fitted with flush square and key, suitable for peaks and hatches.

Code	Hole part mm	Frame mm	Ring Ø mm
38.311.40	80x25	7x60	30

Cylinder locks with YALE key

Made of **chromed brass and stainless steel**; no iron or zamak parts; fitted with waterproof protection cap.

Code	Length (C) mm	Ø mm
38.131.80	15	20
38.131.81	20	20
38.131.82	25	20
38.131.83	30	20
38.131.84	35	20



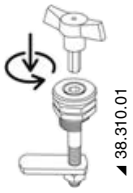
OSCULATI

Hollow lock

Made of **chromed brass**, 90° rotation.

Code	Neck Ø mm	Mounting useful length of neck mm	Lever pulling mm	Levers supplied	Watertight cap
38.310.00	20	14	12/33	2	Yes
38.310.01*	20	19	15/38	1	No

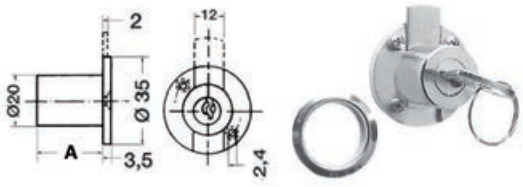
* *Supplied without watertight protection cap.*



Lever lock with key

Chromed brass, equipped with watertight protection cap, key and double lever. 90° rotation with anti-vibration internal spring.

Code	Neck Ø mm	Fitting length mm	Lever draft mm
38.310.50	20	10	13/35



Cylinder lock for drawers

Made of **chromed brass**, fitted with front ring.

Code	Cylinder length (A) mm	Ø mm
38.106.00	20	20

Cylinder lock

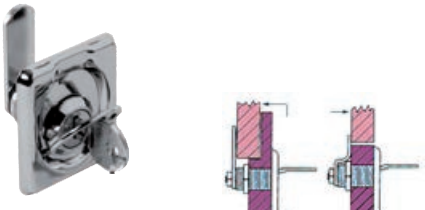
90° rotation of the back latch by turning a knurled ring nut under the flange (loose rotation). Press the side button to **lock** the latch. Insert the key to **release** the latch. The advantage is that the lock can always be used without key. Supplied with 3 latches (16/20/25 mm) for different thickness. Made of **nickel-plated brass (springs included).**

Code	Hole Ø mm	Thread length mm
38.131.70	16	16

Small rotating latch lock

Made of **nickel-plated brass**.

Code	Ø Hole mm	Thread length mm
38.131.65	16	16



Swivelling lock for portholes and peaks

Made of mirror polished **stainless steel**, fitted with flush handle, fitted with stop lock.

Code	Ø hole mm	Frontale mm	thread length mm
38.977.00	16	50x55	20

► Hasps and Staples

Locker latch

38.405.50 Made of **stainless steel**, fitted with spring button and padlock ring hole plate.

Locker latch Deluxe

38.405.51 Made of **stainless steel**, fitted with checking plate, **faired with hidden screws**.

Drop-down Hasp & Staple

AISI 316 Made of **precision cast AISI 316 stainless steel**, mirror polished, fitted with **swivelling** padlock.

Code	⟷ mm
38.932.80	75x26 (without strip), 90x26 (with strip)

Hasp & Staple

Made of **stainless steel**. Without screw strip cover.

Code	⟷ mm
38.981.00	Closed 65x23

Hasp & Staple

Made of **chromed brass**; suitable for lockers, hatches and various uses, jointed to allow one section to work as a screw cover

Code	⟷ mm
38.980.00	open 140x35

Hasp & Staple

Made of **chromed brass**, fitted padlock; suitable for trunks, hatches and various uses..

Code	⟷ mm
38.980.01	95x25

"Heavy Duty" Hasp & Staple

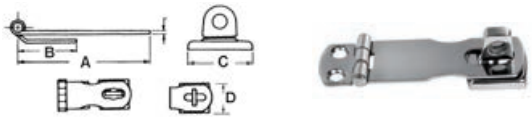
Made of **mirror polished stainless steel**.

Code	Closed mm	Open mm
38.211.25	33x67	33x87
38.211.26	33x87	33x107

Peak hasp

Mirror-polished **stainless steel** with **swivelling** microcast eyelet.

Code	A mm	B mm	C mm	D mm
38.441.15	74	20	26x29	27



Peak hasps

Made of **stainless steel** with special "Chromelux®" mirror polished finish, fitted with **swivelling** padlock eye ring.

Code	A mm	B mm	C mm	D mm
38.441.12	64	29	32	24
38.441.13	91	29	32	24

Hasp & Staple

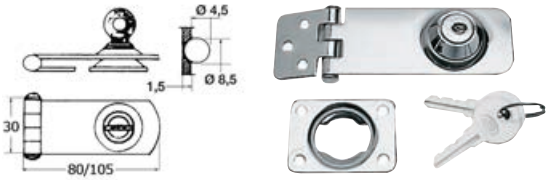
Made of **chromed brass**, fitted with padlock ring, made exclusive by Osculati; through a clever system, the padlock ring can **swivel and fold**, in resting position it is **completely** aligned and does not disturb when is set on top, **universal** stud mounting.

Code	⟷ mm
38.982.00	89x32

Locking hasp & staple for lockers and hatches

Made of **polished stainless steel**, fitted with lock and key.

Code	⟷ mm
38.978.00	80x30 (closed)
38.978.01	105x30 (closed)



► Lifting handles and lockers

Door stoppers/bottom boards stoppers

Made of mirror polished **stainless steel and nylon**.

Code	Ø mm
38.116.70	60

Button plate

AISI 316

Made of **AISI 316 stainless steel**; designed to fix bottom boards or cabinet doors.

Code	Ø mm
38.145.00	45

Wing nuts with supports

38.169.20 Porthole stopper or hatch stopper, all made of **chromed brass**.

Hatches stop

38.670.00 stainless steel mirroro polished

Bottom board lifting handle

Made of **AISI 316 stainless steel**.

Code	⟷ mm	Height mm	Wheelbase mm
38.158.00	88x35	20	73

Concealed bottom board

Made of **chromed brass**.

Code	⟷ mm
38.144.00	65x50

Bottom board raising device handle

Made of chromed brass.

Code	⟷ mm
38.141.00	75x55

◢38.143.20

◢38.141.21

Bottom board lifting ring

AISI 316

Made of **precision cast mirror polished AISI 316 stainless steel**.

Code	⟷ mm	Version
38.143.20	56x48	Heavy Duty, with ring
38.141.21	55x77	Heavy Duty, fitted with handle and return spring

◢38.510.33

◢38.510.34

Spring ring pull for floors

Code	⟷ mm	Material	Version
38.510.33	83x21	AISI 316 S.S.	with screws
38.510.34	83x21	chromed brass	with studs

Chromed brass handles

Code	⟷ mm
38.107.60	50x75
38.107.61	60x90

Polished stainless steel handle

Code	⟷ mm
38.218.21	57x77

Bottom board lifting ring

Made of **stainless steel**, light and sturdy, mirror polished finish. Model fitted with ring return spring to eliminate vibrations.

Code	⟷ mm
38.142.00	55x65
38.142.01	38x40

Bottom board lifting ring

Made of **chromed brass**, foldable flush ring, also suited for hatch handles.

Code	⟷ mm
38.143.00	62x47 external

Cabinet lifting ring

Made of **chromed brass**, fitted with flush ring.

Code	Thread size mm
38.107.50	38x45

Anti-vibration cam latch

AISI 316

Mirror-polished AISI 316 stainless steel. Spring retractable handle, counterflange for fixing.

Code	External Ø mm	Bore Ø mm	Hatch thickness Ø mm
38.426.90	60	50	2/16

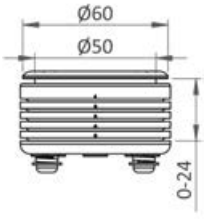
Eclipse anti-vibration pull latch

EXTRA LARGE HANDLE

Featuring an extremely easy grip:
- Mirror-polished AISI316 stainless steel.
- Flush deck design.
- Large ergonomic handle.
- Spring retractable handle.
- Plastic spacer with marks for customized cut.

Code	External Ø mm	Bore Ø mm	Hatch thickness Ø mm
38.164.00	60	50	0-24

OSCULATI

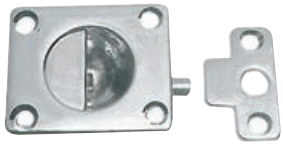


Flush crack

Made of **chromed brass**; lowered with spring, use for lockers and other uses.

Code	⟷ mm	Plate mm
38.131.40	57x40	18x40

Hatch or drawer stopper



Made of **chromed brass**, fitted with spring.

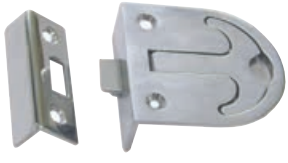
Code	⟷ mm	Plate mm
38.153.00	50x42	20x42

Flush bottom board pull latch

AISI 316

Made of **precision-cast mirror polished AISI 316 stainless steel**.

Code	⟷ mm
38.138.00	57x76



► Push to close latches

Pull latches / hatch lifting device

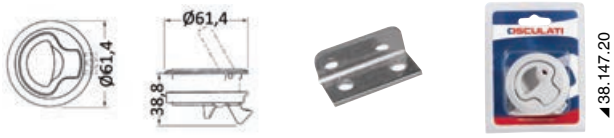
Made of mirror polished **precision-cast AISI 316 stainless steel**; using a pressure lock, the handle can stay opened or closed.

Code	For hatches with thickness mm	Hole Ø mm	Flange Ø mm
38.147.50	3/19	51	62

Plastic flush pull latches

Made of **white nylon**, fitted with **stainless steel** lock stopper and two 2 mm stoppers.

Code	Version	Color	recess Ø size mm	external Ø size mm	Inner size mm	Fites thickness size mm
38.147.00	without lock	white	49.6	61.4	38.8	from 7 to 18
38.147.01	without lock	black	49.6	61.4	38.8	from 7 to 18
38.147.20	with lock	white	49.6	61.4	38.8	from 7 to 18
38.147.21	with lock	black	49.6	61.4	38.8	from 7 to 18



Lock for small hatches/flush pulls

AISI 316

Snap lock with spring handle. Mirror-polished AISI 316 stainless steel.

Code	Lock	For thickness mm	outside Ø mm	recess Ø mm	Depth mm
38.152.70	no	7 - 19	44	38	25.3
38.152.71	yes	7 - 19	44	38	25.3

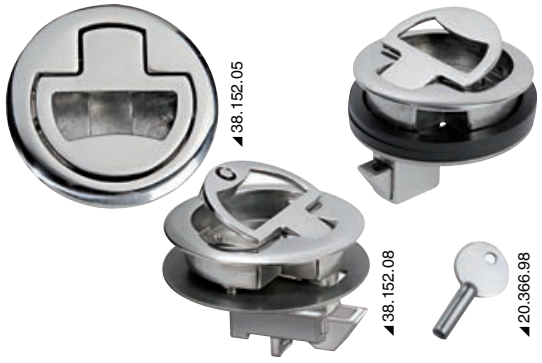
20.366.98 *Spare key for 38.152.71.*

Flush pull latches small

AISI 316

Made of **mirror-polished AISI 316 stainless steel**. Equipped with square stop.

Code	Lock	For thickness mm	External Ø mm	Recess Ø mm
38.147.05	No	5 - 12	62	48
38.147.06	Yes	5 - 12	62	48



Flush pull latch with spring handle and snap lock

Mirror polished AISI 316 stainless steel.

Code	Lock	For thickness mm	External Ø mm	Recess Ø mm	Version
38.152.05	No	5-12	62	50	Standard
38.152.06	Yes	5-12	62	50	Standard
38.152.08	Yes	5-12	62	50	Opening from inside and outside

20.366.98 *Spare key for 38.152.06/08*

Flush pull latches large

AISI 316

Snap lock with spring handle. Mirror-polished AISI 316 stainless steel.

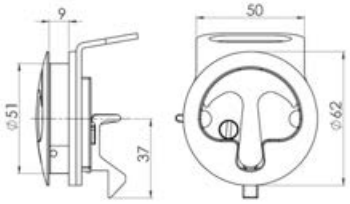
Code	Lock	For thickness mm	outside Ø mm	recess Ø mm	Depth mm
38.152.80	no	7 - 19	75	63	40
38.152.81	yes	7 - 19	75	63	40

20.366.98 *Spare key for 38.152.81.*

Toilet lock for open boats with lock/unlock from the inside

Made of mirror-polished AISI 316 stainless steel.
The lock can be opened from the outside by means of the anchor-shaped spring return handle. The inside handle is angle-shaped and is fitted with a locking lever.
Emergency unlocking system from the outside.

Code	⟷ mm	Bore Ø mm
38.228.01	62	50



Eclipse PUSH LOCK pull latch (push closure)

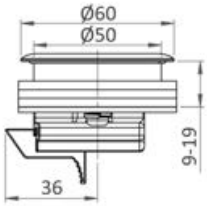
OSCULATI

EXTRA LARGE HANDLE

Featuring an extremely easy grip:
- Mirror-polished AISI316 stainless steel.
- Flush deck design.
- Large ergonomic handle.
- Spring retractable handle.
- It opens from inside and outside.

Code	Lock	For thickness mm	External Ø mm	Recess Ø mm
38.163.01	No	9-19	60	50
38.163.02	Yes	9-19	60	50

◢ Key for 38.163.02



◢ 38.163.01

◢ 38.163.02

► Lift and turn latches

Lift and turn latch

Made of nylon + chromed brass; for mounting with 2 crews on boards, thickness of 6-16 mm, fitted with snap-in stopper.

Code	Size mm	Bottom board hole mm	Adjustable stop lever mm
38.137.00	63x63	50	27-50

Flush turn latch for winch handle

OSCULATI

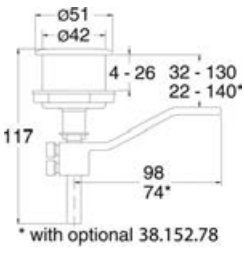
AISI 316 **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Completely flush when not in use thanks to a spring system that closes the star hole. 90° rotation.
Made of AISI 316 stainless steel.

Code	Outer Ø mm	Hole Ø mm	Bulkhead thickness mm	Stop stroke mm
38.165.01	51	42	4-26	32-130

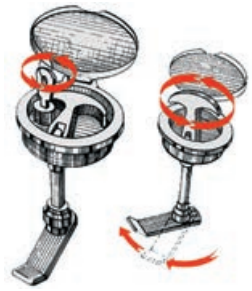
38.152.78 *OPTIONAL Pushbutton KEY*

◢ 38.152.78



◢ 38.165.01

Bottom board lifting device



Made of **chromed brass**, recess fit, fitted with locking cover. 5- to 50-mm adjustable lock.

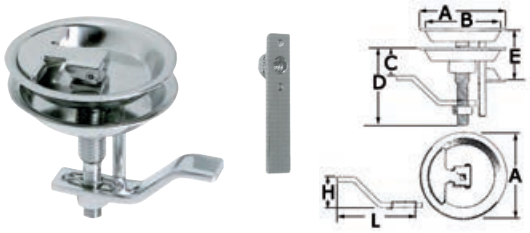
Code	Ø hole mm	Version	Adjustable stop lever mm
38.140.00	68	with key	32-70
38.140.01	68	**without** key	32-70

Pull handle with pulling system

Made of **chromed brass**, recess fit, fitted with locking cover. Fitted with lower adjustable stopper height from 50 mm to 5 mm.

Code	Ø hole mm	Version	Adjustable stop lever mm
38.140.02	68	with key	38-58
38.140.03	68	**without** key	38-58

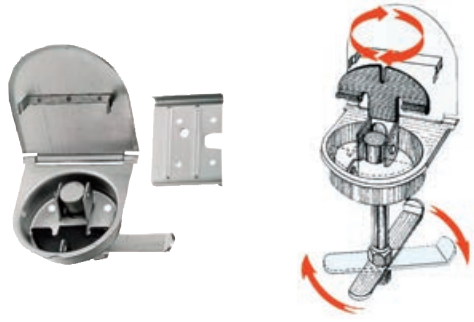
OSCULATI



Lift and turn latch with compression system

Made of **mirror polished AISI 316 stainless steel**, fitted with counter stop plate; no visible screws; special **pulling** system which turns the handle to **completely lock** the bottom boards, thus avoiding vibrations, supplied with angled locking lever + straight lever + stop plate.

Code	Ø A mm	Ø B mm	C mm	D mm	E mm	L mm	H mm
38.426.80	70	60	30/80	78	2/42	71	22
38.426.86	90	70	30/80	88	2/49	71	22



Lift and turn latch with cover

Made of **stainless steel**, flush mount, fitted with padlock ring, made in accordance with **RINA** standards, equipped with internal emergency opening.

Code	Base size mm
38.146.00	110x100

Lift and turn latch with cover

AISI 316

Made of **precision cast mirror polished AISI 316 stainless steel**; adjustable fixing board; built-in padlock ring.

Code	A mm	B mm	C mm	D mm	E mm	F mm	Base mm
38.151.00	115	120	92	52-65	11	75	110x115

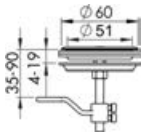
OSCULATI

Lift and turn flush latch small

AISI 316

Made of **mirror polished AISI 316 stainless steel**.

Code	Version	External Ø mm	Bulkhead hole Ø mm	Bulkhead thickness mm	Adjustable stop lever mm
38.152.01	without lock	60	51	4-19	35-90
38.152.02	with lock	60	51	4-19	35-90

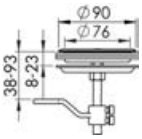


Lift and turn flush latch large

AISI 316

Made of **mirror polished AISI 316 stainless steel**.

Code	Version	External Ø mm	Recess hole Ø mm	Bulkhead thickness mm	Adjustable stop lever mm
38.152.20	without lock	90	76	8-23	38-93
38.152.21	with **lock**	90	76	8-23	38-93



OSCULATI

◢ 38.152.21

◢ 38.152.20

Cam Latch pull latch, 60 mm

AISI 316

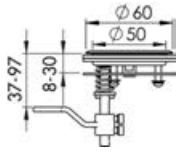
COMPRESSION SYSTEM

Fitted with eccentric cam system, by **lowering the handle** it shifts the inner lock lever upwards, making a safer locking, watertight, no vibrations; by **lifting** the handle, the inner lever raises and frees the hatch; made of **AISI 316 stainless steel**, mirror polished finish.

Code	Lock	External Ø mm	Bulkhead hole Ø mm	Bulkhead thickness mm	Adjustable stop lever mm
38.152.40	no	60	50	8-30	37-97
38.152.41	yes	60	50	8-30	37-97

20.366.98 *Spare key for 38.152.41*

◢ 20.366.98



OSCULATI

◢ 38.152.40

◢ 38.152.41

Cam Latch pull latch, 75 mm

AISI 316

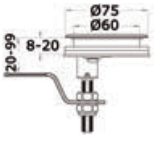
COMPRESSION SYSTEM

Fitted with eccentric cam system, by **lowering the handle** it shifts the inner lock lever upwards, making a safer locking, watertight, no vibrations; by **lifting** the handle, the inner lever raises and frees the hatch; made of **AISI 316 stainless steel**, mirror polished finish.

Code	Lock	outer Ø mm	bulkhead hole Ø mm	Bulkhead thickness mm	Stop stroke mm
38.152.50	no	75	60	8-20	20-99
38.152.51	yes	75	60	8-20	20-99

20.366.98 *Spare key for 38.152.51.*

◢ 20.366.98



OSCULATI

◢ 38.152.50

◢ 38.152.51

Cam Latch pull latch, 90 mm

AISI 316

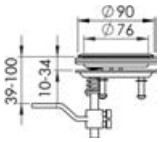
COMPRESSION SYSTEM

Fitted with eccentric cam system, by **lowering the handle** it shifts the inner lock lever upwards, making a safer locking, watertight, no vibrations; by **lifting** the handle, the inner lever raises and frees the hatch; made of **AISI 316 stainless steel**, mirror polished finish.

Code	Lock	External Ø mm	Bulkhead hole Ø mm	Bulkhead thickness mm	Adjustble stop lever mm
38.152.60	no	90	76	10-34	39-100
38.152.61	yes	90	76	10-34	39-100

20.366.98 *Spare key for 38.152.61.*

◢ 20.366.98



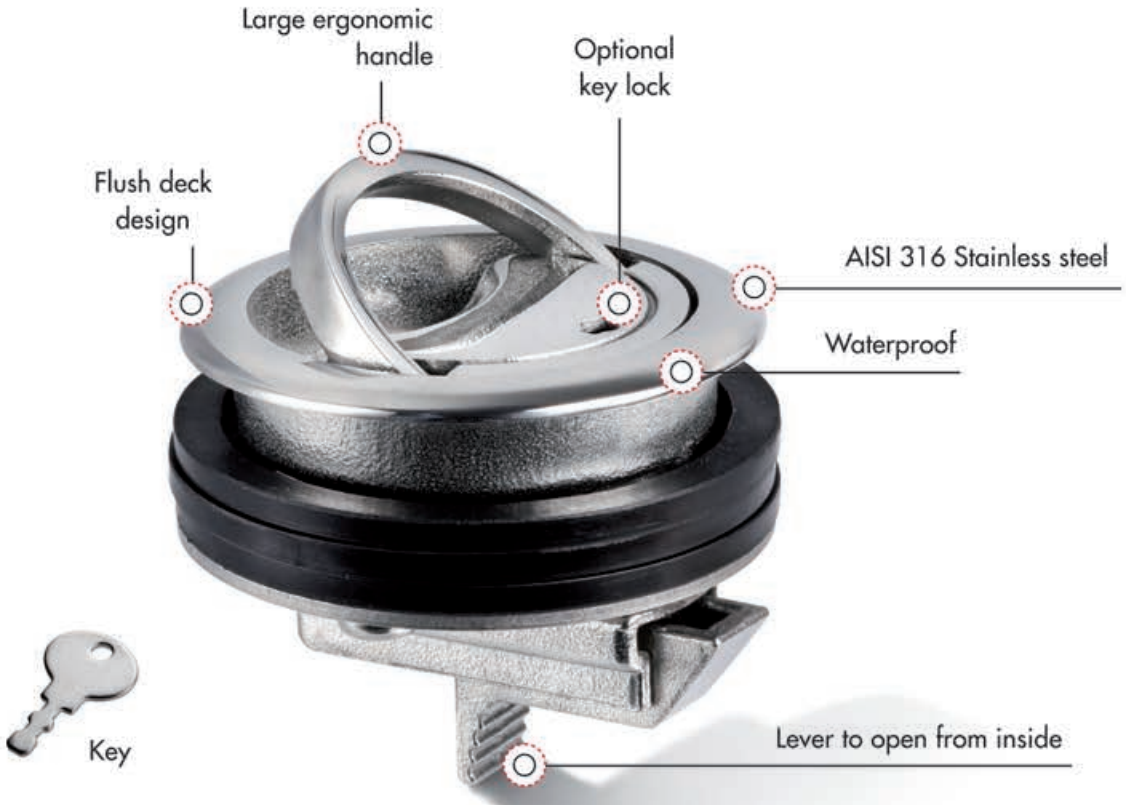
OSCULATI

◢ 38.152.60

◢ 38.152.61

PUSH LOCK

38.163.01/02 - Easy opening from both inside and outside Flush deck design



PULL LATCH HANDLE

38.164.00 - Large ergonomic handle for an extremely easy grip, flush deck design.

LIFT & TURN compression latch

38.161.XX - Characterized by a particularly easy grip, they enclose all the best features of the pull latches in a single model.

Video

Key

OSCULATI

Eclipse LIFT & TURN flush latch (with compression closure) - SMALL

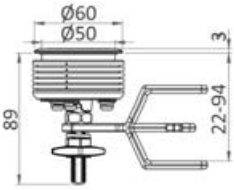
COMPRESSION SYSTEM **EXTRA LARGE HANDLE**

Featuring a very comfortable grip, it offers all the best characteristics in a single flush deck design model.
- Flush design.
- Large ergonomic handle.
- 360° rotation.
- Handle can be lowered every 90°.
- Open/close indicator.
- Ergonomic nut for easy calibration and emergency exit.
- Straight cam suitable for sliding doors.
- Two-position cam.
- Plastic spacer with marks for customized cut.

◢ 38.161.01

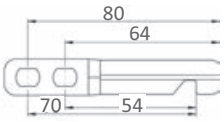
◢ 38.161.02

◢ Key for 38.161.02

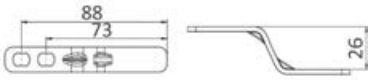


Code	Lock	Outer Ø mm	Bore Ø mm	Bulkhead thickness mm	Stop stroke mm
38.161.01	No	60	50	3-26	22-94
38.161.02	Yes	60	50	3-26	22-94

◢ Spacer included



◢ Universal straight cam included



◢ Angled cam included

OSCULATI

Eclipse LIFT & TURN flush latch (with compression closure) - MEDIUM

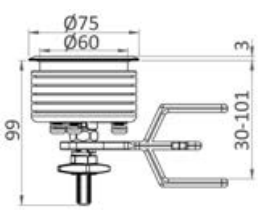
COMPRESSION SYSTEM **EXTRA LARGE HANDLE**

Featuring a very comfortable grip, it offers all the best characteristics in a single flush deck design model.
- Flush design.
- Large ergonomic handle.
- 360° rotation.
- Handle can be lowered every 90°.
- Open/close indicator.
- Ergonomic nut for easy calibration.
- Ergonomic nut for emergency exit.
- Straight cam suitable for sliding doors and having two different positions.
- Two-position cam.
- Plastic spacer with marks for customized cut.

◢ 38.161.31

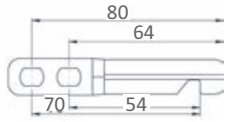
◢ 38.161.32

◢ Key for 38.161.32; 38.161.4x

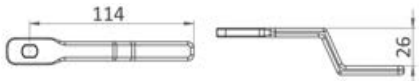


Code	Lock	Outer Ø mm	Bore Ø mm	Bulkhead thickness mm	Stop stroke mm	Kit	No. of latches per kit (same key)
38.161.31	No	75	60	5-36	30-101	No	-
38.161.32	Yes	75	60	5-36	30-101	No	-
38.161.42	Yes	75	60	5-36	30-101	Yes	2
38.161.43	Yes	75	60	5-36	30-101	Yes	3
38.161.44	Yes	75	60	5-36	30-101	Yes	4
38.161.45	Yes	75	60	5-36	30-101	Yes	5

◢ Spacer included



◢ Universal straight cam included



◢ Angled cam included

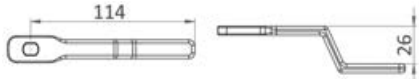
Eclipse LIFT & TURN flush latch (with compression closure) - BIG

OSCULATI

COMPRESSION SYSTEM **EXTRA LARGE HANDLE**

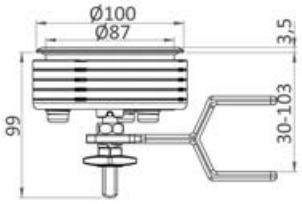
Featuring a very comfortable grip, it offers all the best characteristics in a single flush deck design model.
- Flush design.
- Large ergonomic handle.
- 360° rotation.
- Handle can be lowered every 90°.
- Open/close indicator.
- Ergonomic nut for easy calibration and emergency exit.
- Straight cam suitable for sliding doors and with two possible positions.
- Plastic modular spacer for different thickness bulkwards.

Code	Lock	Outer Ø mm	Bore Ø mm	Bulkhead thickness mm	Stop stroke mm
38.161.51	No	100	87	5.5-33	30-103



◢ Angled cam included

◢ Spacer included



Spares for Eclipse lift and turn latch

Their different shapes easily fit multiple hatches or applications.

Code	Description	Compatible models
38.161.80	Cam/lever	38.161.01/02/31/32/42/43/44/45/51
38.161.81	Cam/lever	38.161.01/02
38.161.82	Cam/lever	38.161.31/32/42/43/44/45
38.161.90	Spacers	38.161.01/02; 38.162.00; 38.152.40
38.161.91	Spacers	38.161.31/32/42/43/44/45

◢ 38.161.80

◢ 38.161.81

◢ 38.161.91

◢ 38.161.90

◢ 38.161.82

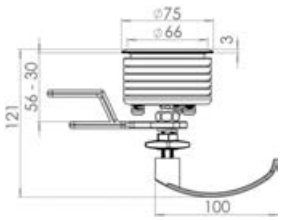
Eclipse (medium) pull latch for Marinaio cabins or large lockers

OSCULATI

OPENING FORM INSIDE **COMPRESSION SYSTEM**

Very comfortable grip, it encompasses all the best features of a flush deck pull latch. Internal handle for opening/closing from the inside.

Code	Lock	Outside Ø mm	Bore Ø mm	Bulkhead thickness mm	Stopper course mm
38.161.39	No	75	60	5-36	30-101



OSCULATI

Lift and turn flush pull latch with compression system

AISI 316

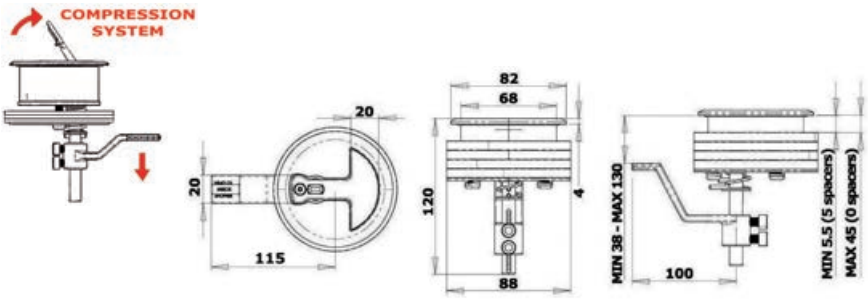
COMPRESSION SYSTEM

REGISTERED DESIGN / DISEGNO DEPOSITATO

Smooth pull catch system, with the same features of similar products but smoother and more practical to use. Cam system mechanism that compresses the locker/cabinet when closed and releases the pressure when the handle is lifted. Totally watertight.

Code	Lock	External Ø mm	Bulkhead hole Ø mm	For thickness mm	
				min	max
38.159.01	no	82	68	5.5	45
38.159.02	yes	82	68	5.5	45

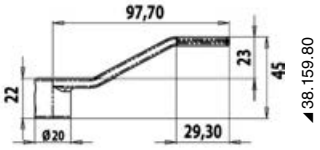
Emergency open from inside

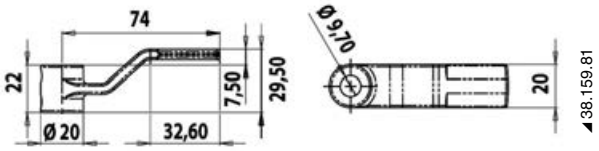


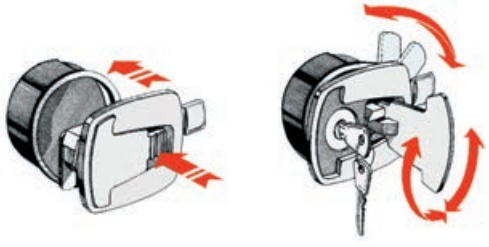
Spare cams/levers for pull latches

Their different shapes easily fit multiple hatches or applications.

Code	Standard on model
38.159.80	38.159.01; 38.159.02; 38.152.01; 38.152.02
38.159.81	38.159.01; 38.159.02; 38.152.60; 38.152.61







Pull latch

Made of **chromed brass**, fits bottom board thickness of 8/20 mm.

Code	Base mm	Version
38.149.00	53x60	simple
38.149.01	53x60	with lock

► Door-stoppers

Jointed door stopper hook

Made of **chromed brass**, double joint.

Code	Length mm
38.192.79	60
38.192.80	80
38.192.81	100

Hooks

Made of **chromed brass**, door stoppers.

Code	Length mm
38.174.60	60
38.174.80	80
38.174.10	100

Doorstop hook

AISI 316

Made of **AISI 316 stainless steel** USA model.

Code	Length mm
38.173.10	100
38.173.75	75

Door/cabinet door stopper

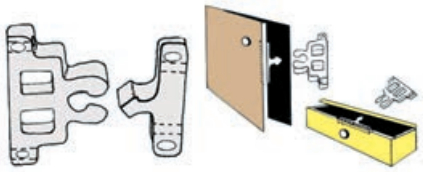
Fitted with support **rolls** made of **stainless steel**.

Code	Base mm	Size mm
38.442.85	34x20	30
38.442.84	37x29	38

Snap latch made of chromed brass

Code	Description
38.107.40	Snap latch made of **chromed brass** suitable to lock doors, hatches and others.

Snap latch



Code	Description	ORDER BY BOX
38.107.41	**White nylon** snap latch for cabinet doors and others uses	10

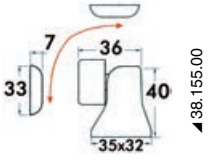
Snap-in door stopper

Made of **nylon and rubber**.

Code	Color	Base Ø mm	Total hangover mm	ORDER BY BOX
38.422.88	white	50	17	10 pcs

Adjustable magnetic doorstop

Code	Description
38.155.00	**Magnetic** swivelling doorstop made of **chromed brass**.
38.155.01	**Magnetic** swivelling doorstop made of **mirror-polished AISI 316 stainless steel**



◢38.155.00

◢38.155.01

OSCULATI

◢38.155.00

◢38.155.01

Magnetic doorstop

Made of **brass**, fitted with checking plate.

Code	Version
38.155.20	**chromed brass**

Telescopic magnetic doorstop

Made of **brass**, fitted with checking plate; adjustable from 50 to 82 mm.

Code	Version
38.155.30	**chromed brass**

Doorstop

Made of **chromed brass**, leaf with terminal vibration dampening rubber top.

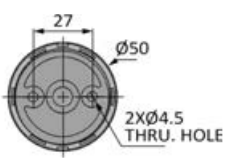
Code	Ø base mm	Total length mm
38.154.00	40	50

New Delux doorstop

EXTRA STRONG MAGNETE

Mirror-polished stainless steel doorstop. Magnet cover made of soft plastic to absorb impacts.
Automatic circular orientation up to 10°.
Sold in pairs (1 couple = 1 piece).

Code	Holding force kg	⟷	
		Ø mm	Thickness mm
38.155.70	6	5	30+30



► Door-stoppers for sliding doors

Sliding glass/door folding stopper

AISI 316

Made completely of **polished AISI 316 stainless steel**, fitted with stop plate coated with **shock-proof PVC**.

Code	Fixing base mm	Total length mm
38.156.00	47x18	74 including movable part

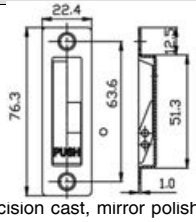
Openable hinges for glass stoppers/sliding door stoppers

AISI 316

Mirror polished AISI 316 stainless steel with anti-vibration plastic coated stopper

Code	⟷ closed mm	⟷ open mm
38.156.40	73x30	87x30

Sliding door stopper



It comes out with an easy push. Made in precision cast, mirror polished AISI 316 stainless steel.

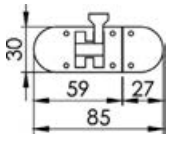
Code	⟷ mm
38.157.00	76.3x22.4

Sliding glass/door folding stopper

made in chromed brass

Code	⟷ mm
38.156.20	33x72

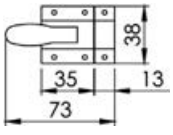
► Latches



Sliding bolt lock

With special **vibration dampening** device.

Code	Material	⟷ mm
38.177.00	**chromed brass**	85x30
38.177.01	**mirror polished AISI 316 stainless steel**	85x30

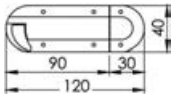


Snap-in locking

AISI 316

made of **mirror polished AISI 316 stainless steel**, fitted with opening handle, ideal for access gangway hatches, for peaks and fridges/iceboxes.

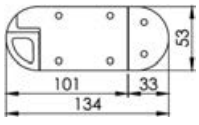
Code	Base mm
38.190.00	48x38



Spring doorstop made of chromed brass

Made of **chromed brass**, designed for rear gangway access hatches.

Code	⟷ mm
38.189.01	120x40x12h

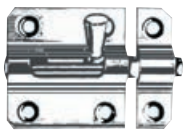


Stainless steel spring doorstops

AISI 316

Made of **polished AISI 316 stainless steel**, suitable for back gangplank access hatches.

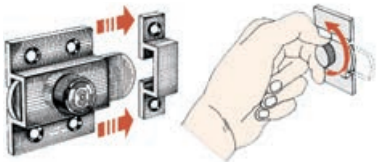
Code	⟷ mm
38.189.03	134x53x16h

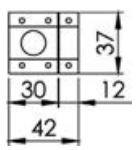


Blocking latches

made of **cast chromed brass**, very sturdy, brass piston.

Code	Length mm
38.188.19	60
38.188.20	90

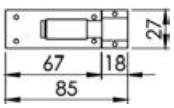




Latch lock

Made of **nickel-plated brass**, fitted with knob turning lock system.

Code	⟷ mm
38.840.00	37x42



Latch lock

Made of **polished stainless steel**, fitted with anti-vibration system, made-ready for lock fitting.

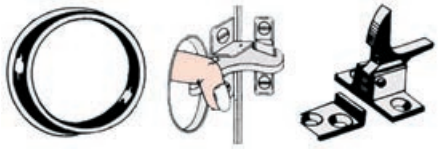
Code	⟷ mm
38.214.00	85x27

► Latches

Spring lock

38.641.00 Chromed-brass spring lock, "Japan" product. For several uses, fitted with teak seal.

Spring lock

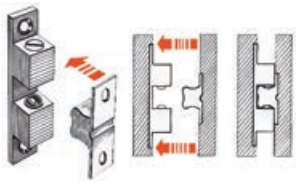


38.642.00 black nylon spring lock with seal on fake wood hole. Ring nut no longer available in black.

Door stopper pawl

Hatches and cabinet door snaps with two adjustable screw spheres; made of **nicket-plated brass**.

Code	⟷ mm
38.533.00	49x10



Deluxe doorstop ratchet

Made of chromed brass with stainless steel bearings and springs.

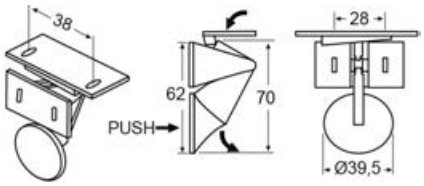
Code	⟷ mm	Material
38.533.44	44x8	Chromed brass
38.533.49	49x8	Chromed brass
38.533.50	49.6x10	Stainless steel

Latch for door's cabinet

AISI 316

It must be installed on the interior side of the door's cabinet. It remains a hole which is closed from the mirror polished side. To open the door, you must push the hole also acting as handle. Counterplate with inclinated tooth for easy installation.

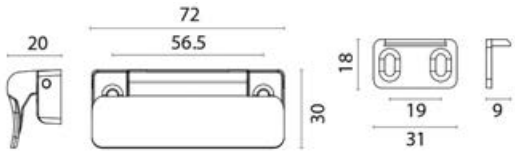
Code	Hole Ø mm
38.184.00	28/33



Closure handle for doors

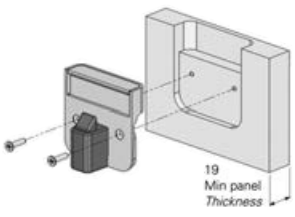
It stays hidden under the door upright. Made of chromed brass.

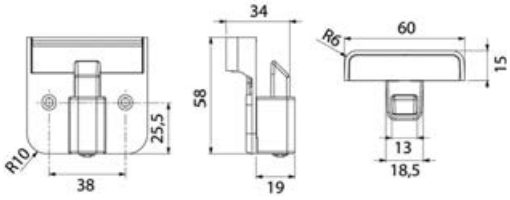
Code	⟷ mm
38.191.00	72x30x20



Recess fit lock for doors and drawers

38.192.00 To be recessed into the woodwork. Made of chromed brass. 19-mm hatch minimum thickness. **Simply press** the door to open it.





Button latch

Button latch made of **chromed brass**.

Code	⟷ mm mm	Knob Ø mm
38.309.20	30x23	25

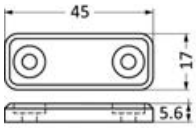
Latch with pressure opening

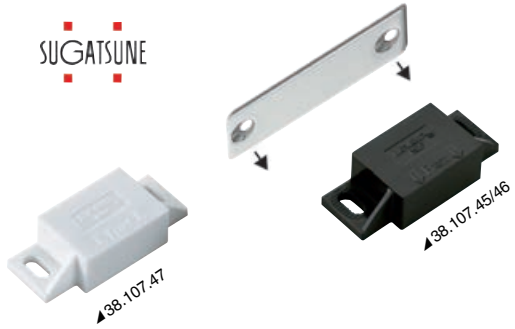
38.644.00 Flush latch made of **chromed brass with pressure opening**. Very elegant and practical.

SUGATSUNE sealed magnetic lock - flat mounting

The magnet is embedded in the resin and is totally stainless.
Thin lock, ideal for confined spaces.

Code	Colour	Magnetic force kgf	⟷ mm	SS counterplate	
				Code	⟷ mm
38.107.43	Black	3	45x17x5.6	**38.107.45**	49x15
38.107.44	White	3	45x17x5.6	**38.107.45**	49x15

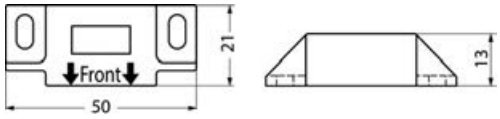




SUGATSUNE sealed magnetic lock - angle mounting

The magnet is embedded in the resin and is 100% stainless.

Code	Colour	Magnetic force kgf	⟷ mm	SS counterplate	
				Code	⟷ mm
38.107.46	Black	3	50x21x13	**38.107.45**	49x15
38.107.47	White	3	50x21x13	**38.107.45**	49x15

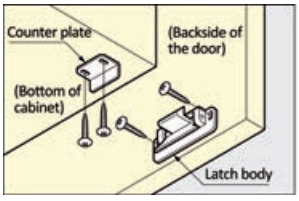


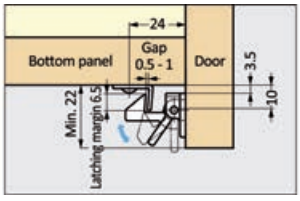
◢38.107.46/47

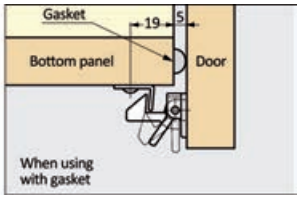
SUGATSUNE snap lever latch

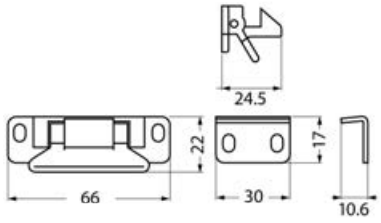
Made of polyamide (PA). For doors without knobs or handles.
Adjustable installation position (± 1.5 mm horizontally or vertically).

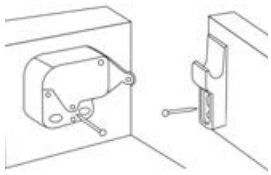
Code	Colour	Restraint force N
38.191.10	Brown	196
38.191.11	White	196











Cabinet door snap lock

Made of **stainless steel and ABS**; it may be opened or closed by lightly tapping on to it from the outside; universal model.

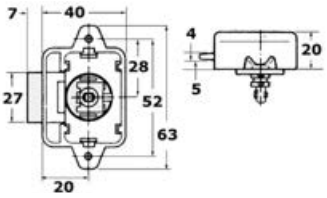
Code	⟷ mm	thickness mm	ORDER BY BOX
38.107.42	46x27	10	5

► Pushbutton spring locks

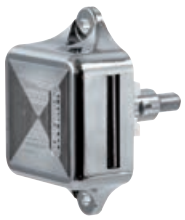
MEDIUM pushbutton spring lock

Push-pull system spring lock for hatches and doors. Fitted with 4 spacers + 1 seal.
Nylon body with SS springs.
A = Round S knob.
A1 = Round knob with spacer.
B = Rectangular knob.
B1 = Rectangular knob with Spacer
C = Convex knob
C1 = Convex knob with Spacer

Code	Finish	For hatch thickness mm					
		A	A1	B	B1	C	C1
38.182.50	White	15/18	15/24	16/19	16/25	16/19	16/25
38.182.51	Chromed	15/18	15/24	16/19	16/25	16/19	16/25



OSCULATI


◢ 38.182.51

◢ 38.182.50

◢ 38.182.51

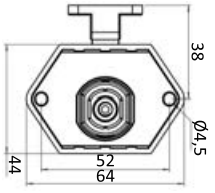
◢ 38.182.50

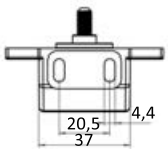
Self-Latching push latch

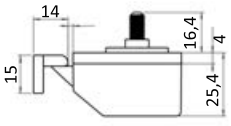
It makes the hatch close by **simply pushing it.**
It works with both a recessed or projecting knob. Pull the knob to open the hatch.
Nylon frame and stainless steel springs.

A = Round S knob.
A1 = Round knob with Spacer.
B = Rectangular knob.
B1 = Rectangular knob with Spacer.
C = Convex knob.
C1 = Convex knob with Spacer.

Code	Finish	For hatch thickness mm					
		A	A1	B	B1	C	C1
38.182.40	White	18/24	15/21	20/26	17/23	23/29	20/26







Knob + ring for spring locks 38.182.40/50/51/54

It comes with a spacer for use on 15/25-mm thick bulkwards.

Code	Type	Finishing		Hole Ø mm
		Ring	Pushbutton	
38.182.55*	Round S	Polished AISI316 SS	Polished AISI316 SS	25
38.182.60	Round	Chromed ABS	Chromed ABS	25
38.182.68	Round	Polished AISI316 SS	Satin AISI316 SS	25
38.182.70	Convex	Chromed ABS	Chromed ABS	25
38.182.78	Convex	Polished AISI316 SS	Polished AISI316 SS	25
38.182.80	Rectangular	Chromed ABS	Chromed ABS	25
38.182.88	Rectangular	Polished AISI316 SS	Polished AISI316 SS	25

* *S version: superior design and finish. Product made from a CNC-wrought bar.*

◢ 38.182.88

◢ 38.182.80

◢ 38.182.78

OSCULATI

◢ 38.182.60

◢ 38.182.70

◢ 38.182.60

◢ 38.182.68

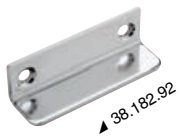
◢ 38.182.55

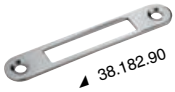
◢ 38.182.55

Stop for latches 38.182.50/51 and 38.180.01

Electro-polished stainless steel

Code	Version	ORDER BY BOX
38.182.90	Flat	10
38.182.92	Square	10


◢ 38.182.92

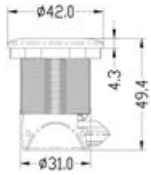

◢ 38.182.90

OSCULATI

Push-button click

Made of chromed zamak, fitted with nylon stop. When the knob is inserted aligned, the safety catch is connected and the hatch cannot be opened. Press the knob to push it out and release the safety catch.

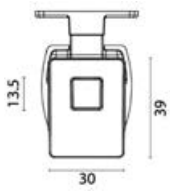
Code	Neck Ø mm	Outer Ø mm
38.179.00	31x25	42

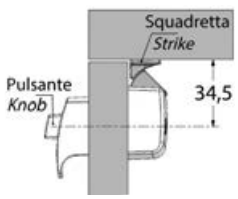


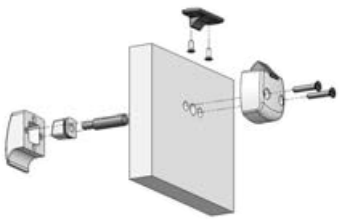
Brass switch with lock

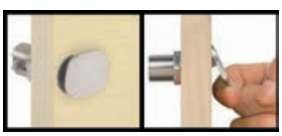
Made of chrome brass. For 13/16/19/23-mm thickness.

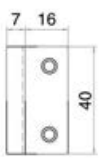
Code	⟷ mm
38.193.00	30x40x21.5









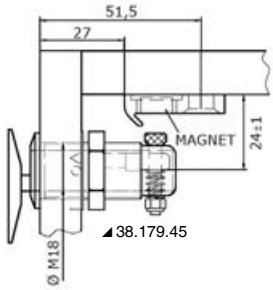


Flush Lock

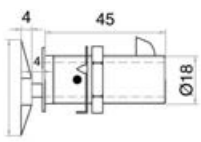
Universal lock almost flush with the panel. Suitable even for heavy drawers and doors since it offers a very good grip. Made of stainless steel + chromed brass. MAGNETIC version for soft close drawers.

Code	Panel thickness mm	Finish	Version	Knob mm	Stop	Type
38.179.40	4 - 27	Polished S.S.	Oval	36x25	Yes	A
38.179.41	4 - 27	Polished S.S.	Square	35x35	Yes	A
38.179.45*	4 - 27	Polished S.S.	Oval	36x25	Yes	A magnetic
38.179.50	4 - 26	Polished S.S.	Oval	35x27	Yes	B
38.179.51	4 - 26	Polished S.S.	Rectangular	36x24	Yes	B

* *MAGNETIC version for soft close guide drawers.*



◢38.179.45



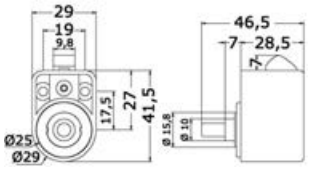
◢38.179.40/41 (Type A)

◢38.179.50/51 (Type B)

SELF-LATCHING pushbutton spring lock

This pushbutton spring lock allows to close the hatch by **simply pushing it**. Nylon frame with stainless steel springs. Opening by pressing the knob.

Code	Version	For hatches mm	Knob optional
38.182.54	automatic lock	16/22	**38.182.55; 38.182.60; 38.182.68; 38.182.70; 38.182.78; 38.182.80; 38.182.88**

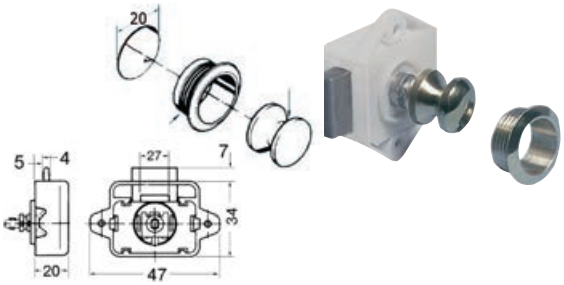


► Mini push-lock

Classic version

Made of **nylon**, with **brass** button and ring. For 24-mm Ø ring.

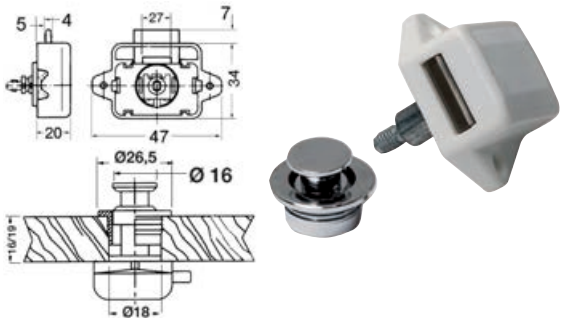
Code	Finish	For hatches up to mm
38.182.01	Chromed brass	16
38.182.04	Polished and coated brass	16



Flat version

Made of **nylon**, with **brass** button and ring. For 26-mm Ø ring.

Code	Model	for thickness up to mm
38.182.09	Chromed brass	16
38.182.10	Chromed brass	19



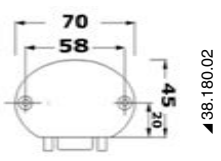
► Spring locks

Spring lock for hatches and cabinet doors

Press the push-button to **lock** it and is then **aligned**, press the button to **open** and to release the cabinet doors making a knob grip at the same time; 2-screw mounting click and ring nut from the outside with a hole of Ø size 26 mm; **nylon** casing, **stainless steel** springs.

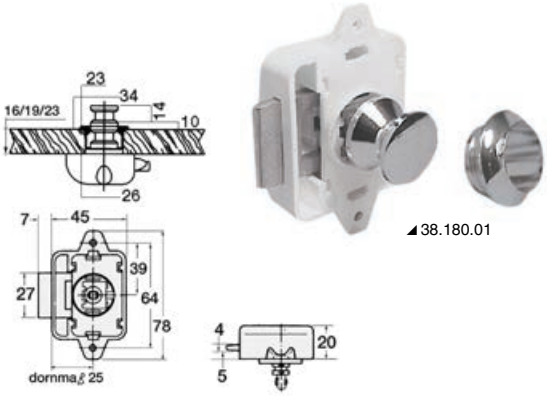
Code	Version
38.180.01	Simple nylon ratchet
38.180.02	simple nylon ratchet with lateral anti-vibration stoppers

Minimum flange required 5 mm. ***Attention: ratchet, only. Knob and ring nut art. 38.181.xx to be ordered separately.***



◢ 38.180.02

◢ 38.180.02



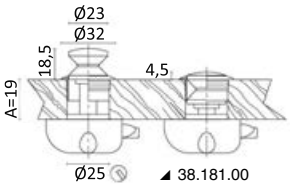
◢ 38.180.01

Chromed brass ring knob

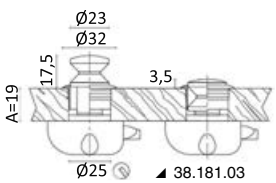
To pair with spring latch 38.180.01/02.

Code	For thickness up to mm
38.181.01	13
38.181.02	16
38.181.03	19
38.181.00	23

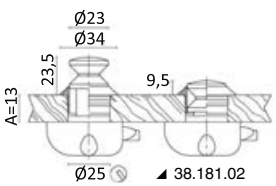
◢ 38.181.01



◢ 38.181.00

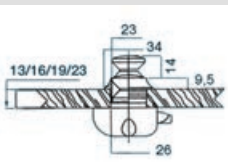


◢ 38.181.03



◢ 38.181.02

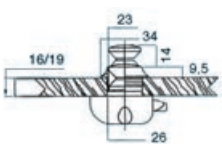
Knob with polished painted brass ring



To pair with spring latch 38.180.01/02.

Code	For thickness up to mm
38.181.04	13
38.181.05	16
38.181.06	19
38.181.07	23

Knob with pearl chromed brass ring



To pair with spring latch 38.180.01/02.

Code	Forthickness up to mm
38.181.11	16
38.181.12	19

Knob with chromed brass ring

To pair with spring latch 38.180.01/02.

Code	For hatches up to mm
38.181.20	16
38.181.21	19
38.181.22	23

► Locks, knobs and rings

Knobs and nuts square

Code	for hatches	Material
38.181.52	Max 16 mm	chromed brass
38.181.53	Max 19 mm	chromed brass

L shape stop plates

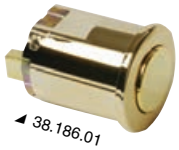
for pawl series: 38.180.01/02 and 38.182.01/04.

Code	Material
38.183.05	chromed brass

► SUGATSUNE latches

SUGATSUNE

◢ 38.185.01



◢ 38.186.01

◢ 38.185.01

◢ 38.186.01

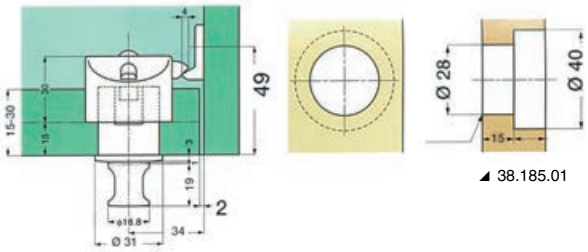
◢ 38.186.02

◢ 38.186.02

Push Knobs for cabinet doors and drawers "SUGATSUNE Pkl-08"

Compact size, perfect functioning; after closing the cabinet door, press the knob to connect and secure it so that it will not re-open until the knob is pressed and pulled; suitable for thickness of 15 to 30 mm, capacity of 10 kg.

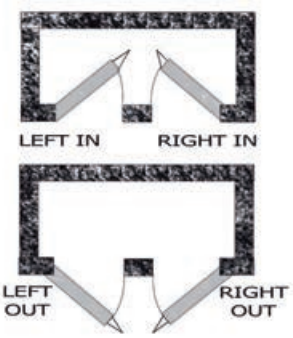
Code	Product	Color
38.185.01	Lock	white
38.186.01	Knob	golden
38.186.02	Knob	chromed

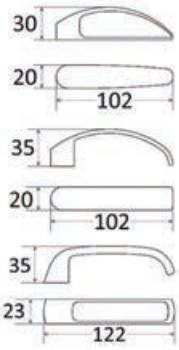


◢ 38.185.01

► AISI 316 stainless steel built-in locks

Mirror-polished, suitable for doors 16 mm thick minimum. 6 mm handle square.

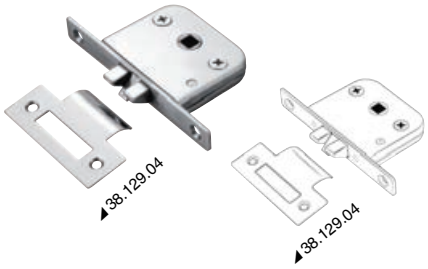


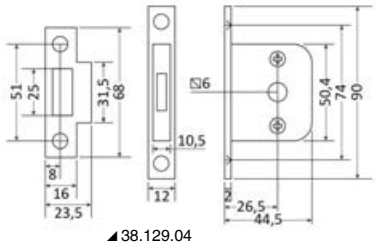


Simple and lockless

Size: 51x45x10,5 mm. For 16/38-mm thick doors.

Code of lock with anti-vibration system	Handle pair with plates	Handle
38.129.04	**38.129.07**	SMART
38.129.04	**38.129.08**	CONTEMPORARY
38.129.04	**38.129.09**	LEATHER

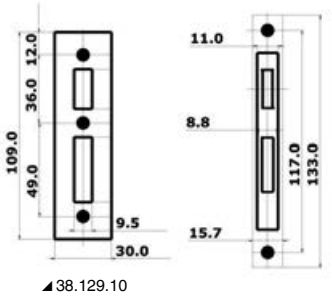




With internal lock and external emergency lock (for toilets and cabins)

Size: 94x57x11,5 mm. For 16/38 mm thick doors.

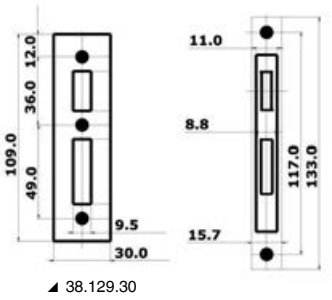
Lock code	Version	Handle pair with plates		
		SMART	CONTEMPORARY	LEATHER
38.129.10	Internal left	**38.129.14**	**38.129.16**	**38.129.18**
38.129.10	External right	**38.129.15**	**38.129.17**	**38.129.19**
38.129.11	External left	**38.129.14**	**38.129.16**	**38.129.18**
38.129.11	Internal right	**38.129.15**	**38.129.17**	**38.129.19**



With Yale external lock, internal block

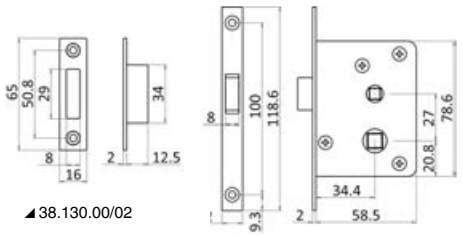
Size: 94x57x11,5 mm. For 16/38 mm thick doors.

Lock code	Version	Handle pair with lock and plates		
		SMART	CONTEMPORARY	LEATHER
38.129.30	Internal left	**38.129.34**	**38.129.36**	**38.129.38**
38.129.30	External right	**38.129.35**	**38.129.37**	**38.129.39**
38.129.31	External left	**38.129.34**	**38.129.36**	**38.129.38**
38.129.31	Internal right	**38.129.35**	**38.129.37**	**38.129.39**



◢ 38.130.00/10

◢ 38.130.02/20



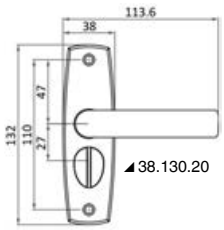
◢ 38.130.00/02

Magnet-operated locks

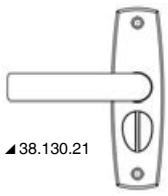
MAGNETIC

The locking pawl stays inside the door until this latter reaches its closed position; the magnet (included) in the lock stile attracts the pawl to stop the door.
The magnet makes these locks universal for any kind of door opening direction.
For 19/38-mm thick doors.

Lock code	Version	Handle pair with plates	Handle type
38.130.00	Simple	**38.130.10**	CONTEMPORARY
38.130.02	Right with strike plate	**38.130.20**	CONTEMPORARY
38.130.02	Left with strike plate	**38.130.21**	CONTEMPORARY



◢ 38.130.20



◢ 38.130.21

◢ 38.128.20 external

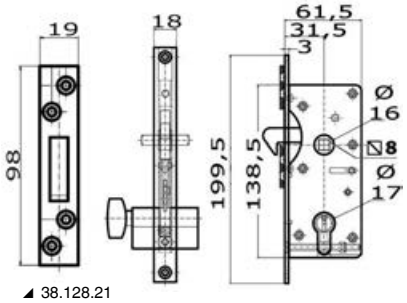
◢ Internal

◢ 38.128.21 external

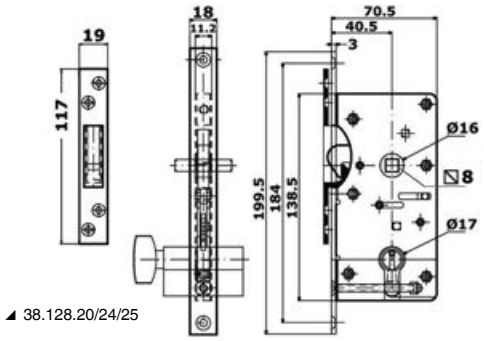
For sliding doors with built-in handle. Yale external key, internal lock

With bench hook. For 19/38 mm thick doors.

Code	Description	Body mm	Thickness mm	Plate mm
38.128.20	With flush hooking	140x68	12	200x18
38.128.21	With projecting hooking	140x68	12	200x18



◢ 38.128.21



◢ 38.128.20/24/25

◢ plates for

◢ 38.128.24 outside view

◢ 38.128.25 inside view

Lock for sliding doors with external handles, Yale external key and internal strike plate

With bench hook. For 19/38-mm thick doors.

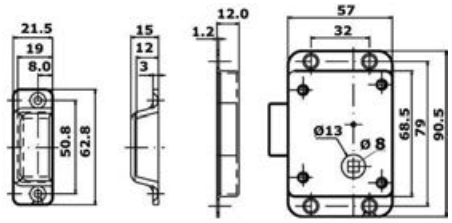
Code	Description	Handle	Body mm	Thickness mm	Plate mm
38.128.24	With flush hooking	SMART	140x68	12	200x18
38.128.25	With flush hooking	CONTEMPORARY	140x68	12	200x18

► AISI316 stainless steel free-standing locks

With knob and Yale external key. Knob lock from inside

Equipped with drawer bench hook. For doors 16/38-mm thick.

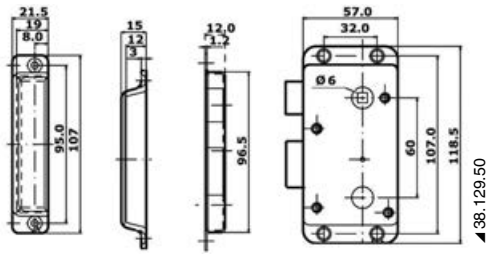
Code	Size: mm
38.128.30	90,5x57

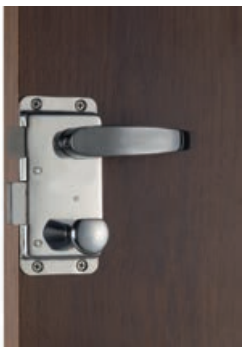


Handleless lock, handle with knob internal lock and Yale external key

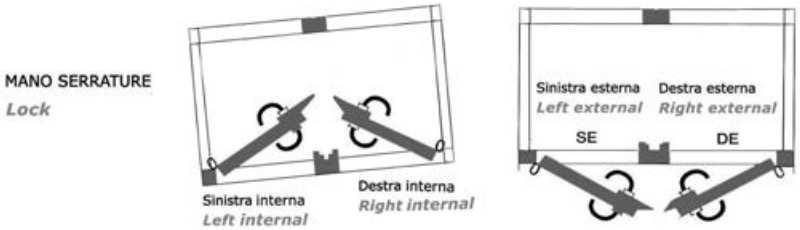
Equipped with drawer bench hook. For doors 16/38-mm thick.

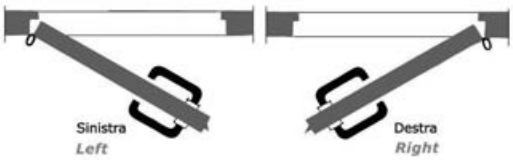
Lock code	Version	Dimensions mm	SMART handle (pair)	CONTEMPORARY handle (pair)
38.129.50	Internal right	118.5x57	**38.129.55**	**38.129.57**
38.129.51	Internal left	118.5x57	**38.129.54**	**38.129.56**
38.129.52	External right	118.5x57	**38.129.55**	**38.129.57**
38.129.53	External left	118.5x57	**38.129.54**	**38.129.56**





► Door locks

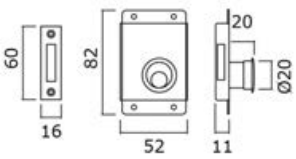


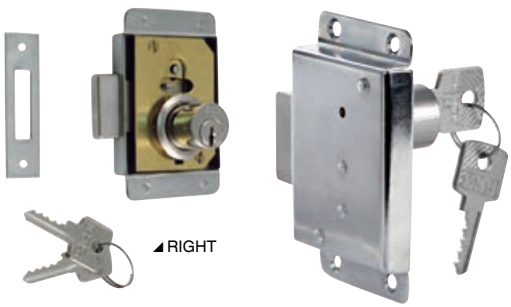


Lock with rim latch

Externally made of **chromed brass**, YALE type with two keys; **brass** mechanism.

Code	Version
38.132.00DX	right
38.132.00SX	left

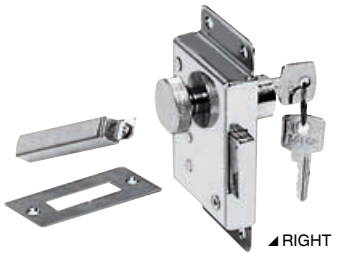




Double-turn lock with rim latch

Made of **chromed brass**, fitted with cylinder key from the outside and internal knob; very practical locking, suitable for doors, fitted with striker.

Code	⟷ mm	Cylinder neck length mm	Version
38.132.10DX-20	98x58	20	right
38.132.10DX-25	98x58	25	right
38.132.10DX-30	98x58	30	right
38.132.10SX-20	98x58	20	left
38.132.10SX-25	98x58	25	left
38.132.10SX-30	98x58	30	left

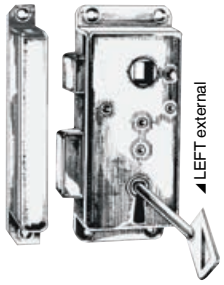


Two-turn lock

Version with rim latch made of **chromed brass**, suitable for entrance doors, fitted with external handle and cylinder, internal knurled knob. Very practical and sturdy lock, fitted with striker.

Code	⟷ mm	Frame mm	Cylinder mm	Version
38.132.20DE-20	58x138	8	20	External right
38.132.20DE-35	58x138	8	35	External right
38.132.20DI-20	58x138	8	20	Internal right
38.132.20DI-35	58x138	8	35	Internal right
38.132.20SE-20	58x138	8	20	External left
38.132.20SE-35	58x138	8	35	External left
38.132.20SI-20	58x138	8	20	Internal left
38.132.20SI-35	58x138	8	35	Internal left

Handles not included.

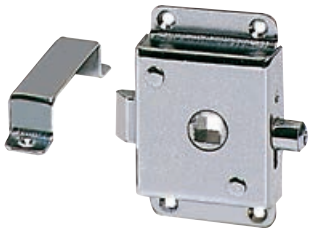


Lock with rim latch, traditional key

Made of **chromed brass**, suitable for doors with handle and lock; fitted with drawer stop; uses all handles available in the catalogue.

Code	⟷ mm	Frame mm	Version
38.132.21DE	110x45	8	External right
38.132.21DI	110x45	8	Internal right
38.132.21SE	110x45	8	External left
38.132.21SI	110x45	8	Internal left

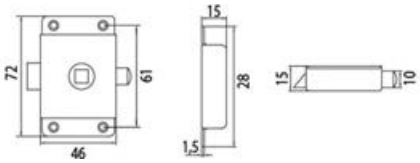
Handles not included.

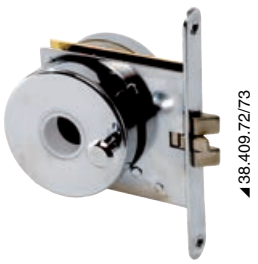


Lock for W.C. units fitted with locking lever

Made of **chromed brass**; all rust-proof material.

Code	⟷ mm	Frame mm
38.131.50	72x46	8



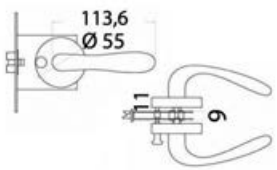


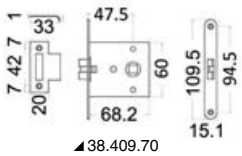
Antivibration recess fit reversible lock (RIGHT-LEFT)

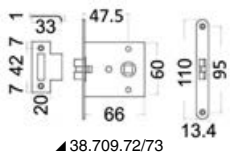
Made of chromed brass, compact and thin. Handles: all 8mm square models on the catalogue.

Code	Version	Lock mm	Door thickness mm
38.409.70*	simple	68.2x60x13	min 15
38.409.72	with internal locking button and emergency release hole	66x60x9.5	18-23
38.409.73	with internal locking button and emergency release hole	66x60x9.5	24-29

* **38.348.12** *Socket required for 8-mm frame handles.*



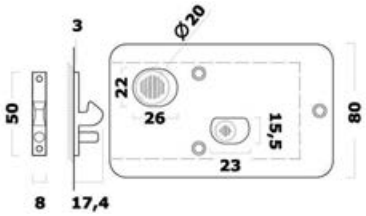


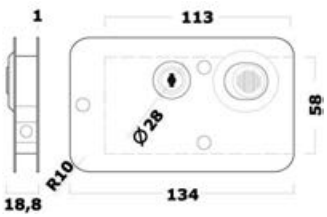


Universal RIGHT/LEFT lock for sliding doors

Made of chromed brass. Built-in version for 15-mm thick doors.
Safety cylinder, internal block and doorstop.

Code	⟷ mm	Door thickness mm
38.132.05	134x80	15





Recess-fit lock for sliding doors

Made of chromed brass, designed for sliding doors with flush handles, suitable for does with minimum thickness of 20 mm.

Code	Version	Plate mm	Frame mm
38.132.07	Complete with traditional key lock	158x87	112x15

Recess-fit lock with sliding door stopper

Made of chromed brass, designed for sliding doors with flush handle, suitable for doors with minimum thickness of 20 mm.

Code	Version	Plate mm	Frame mm
38.132.08	With lock lever and unlock key from other side	158x87	112x15

Recess-fit lock for sliding door with Yale-type key

Made of **chromed brass.**

Code	Version	Model	Thickness mm	Frame mm	Fitted with two plates mm	Square mm
38.348.70	Yale lock	With handle	15	160x15	198x45	8

any handle and washer on the catalogue, 8-mm square.

Recess-fit lock for sliding door with traditional key

Made of **chromed brass**.

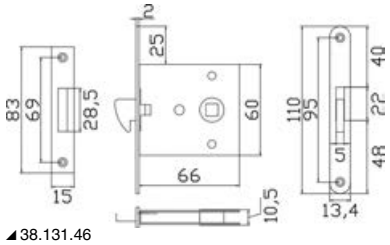
Code	Version	Model	Thickness mm	Frame mm	Fitted with two plates mm	Square mm
38.348.71	Regular key	With handle	15	140x15	140x70	8

Flush lock

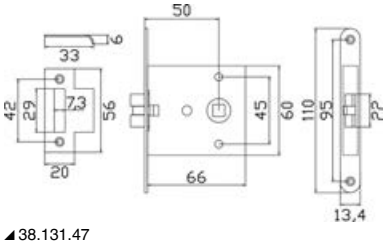
Made of **chromed brass**, designed also for thin doors.

Code	Version	Front part mm	Plate mm
38.131.47	anti-vibrating spring latch	110x13.4	8
38.131.46	for sliding doors	110x13.4	8

38.131.48 *Pair of 118x36 chromed brass plates with inside latch.*



◢38.131.46



◢38.131.47

◢38.131.48

◢38.131.47

◢38.131.46

Stainless Steel sliding door lock

Made of **stainless steel**; fitted with stopper, Yale type cylinder and flat handle, its low depth makes it especially suitable for doors with thin borders.

Code	Frame mm	Box mm	Panel mm	Depth mm	Length cilynder mm
38.132.03	250x25x3	194x43x15	8	43	45

Flush lock with safety cylinder

Made of **chromed brass**. 8-mm plate.

Code	Version	Complete with plates and handles	Front parel mm	Frame mm
38.134.83DX	right	Fitted with 2 plates and handles	150x15	110x63
38.134.83SX	left	Fitted with 2 plates and handles	150x15	110x63

Lock for W.C. units, fitted with internal locking system

Code	Version	Complete with plates and handles	Front plate mm	Frame mm
38.347.40DX	right	Fitted with 2 chromed brass plates and handles 84 mm	133x15	93x55
38.347.40SX	left	Fitted with 2 chromed brass plates and handles 84 mm	133x15	93x55
38.347.41DX	right	No*	135x15	93x55
38.347.41SX	left	No*	135x15	93x55

* *any handle on the catalogue will fit*

Recess-fit lock

Flush mount, made of **satin finish chromed brass**, fitted with vibration dampening device and safety cylinder.

Code	Version	Complete with plates and handles	Front part mm	Frame mm
38.203.50DX	right	fitted with 2 plates and handles 110 mm	212x22x2	9
38.203.50SX	left	fitted with double plate and handle 110 mm	212x22x2	9
38.203.51DX	right	No*	212x22x2	9
38.203.51SX	left	No*	212x22x2	9

* **38.348.12** *Socket needed for 9- to 8-mm frame for any handle and washer on our catalogue, 8-mm frame.*

Vibration dampening lock, flush mount, fitted with internal locking system, designed for toilets. External safety locking

Made of **chromed brass**, standard frame and external lock release key.

Code	Version	With plates and handle	Frame mm	Plate mm
38.203.71DX	right	No*	9	212x22
38.203.71SX	left	No*	9	212x22

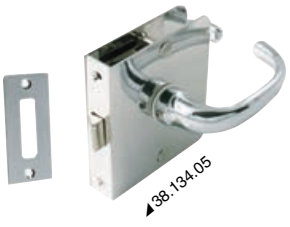
* **38.348.12** *Socket needed for 9- to 8-mm frame for any handle and washer on our catalogue, 8-mm frame.*

Locks with swivelling lock from one side and key lock release from the other

Chromed brass locks, designed for door thickness 15 mm, fitted with stopper, stainless steel plate set and handle set 84 mm.

Code	Version	With handle	Pin mm	Front part mm	Plate mm
38.134.03	left	Yes	8	133x15	133x70
38.134.04	right	Yes	8	133x15	133x70
38.135.03	left	No*	8	133x15	133x70
38.135.04	right	No*	8	133x15	133x70

* *Uses any handle and ring from the catalogue, pin 8 mm.*



Locks without key

Chromed brass locks, designed for door thickness 15 mm, fitted with stopper, stainless steel plate set and handle set 84 mm.

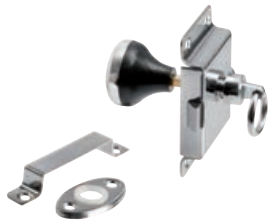
Code	Version	With handle	Pin mm	Front part mm	Plates mm
38.134.05	left	Yes	8	80x15	80x70
38.134.06	right	Yes	8	80x15	80x70
38.135.05	left	No*	8	80x15	80x70
38.135.06	right	No*	8	80x15	80x70

* *Uses any handle and ring from the catalogue, pin 8 mm.*

Lock for W.C. units

made of **chromed brass**, fitted with external application, includes handle with knob and push-sown ring, oval tab with **double** stop, external or wall mounting.

Code	Body mm
38.227.10	95x57



Kit fitted with over-hanged handle

Made of **chromed brass, chromed nylon and stainless steel**, fitted with internal locking system and recess stop or draw stop, ideal for W.C. units and cabins.

Code	Body mm
38.177.60	54x44

Kit with flush handle

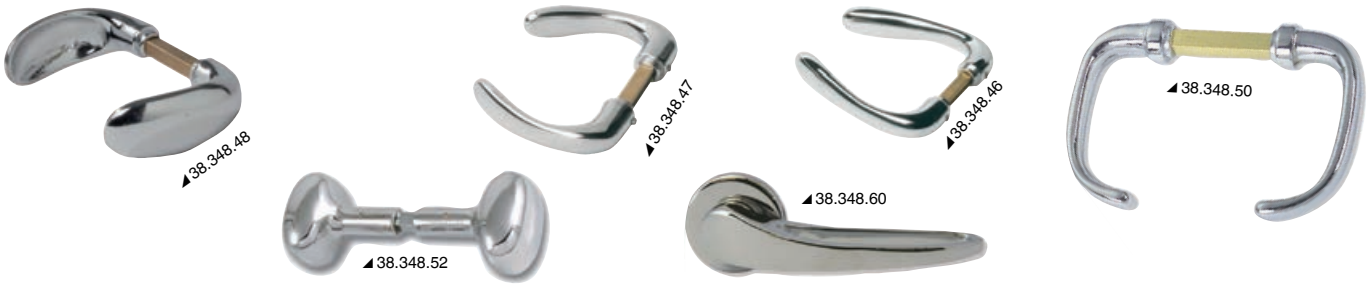
Made of **chromed brass, chromed nylon and stainless steel**, fitted with internal locking system and recess fit stop or draw stop, ideal for W.C. units and cabins.

Code	Body mm
38.177.62	54x44

► Door handles with universal square pin

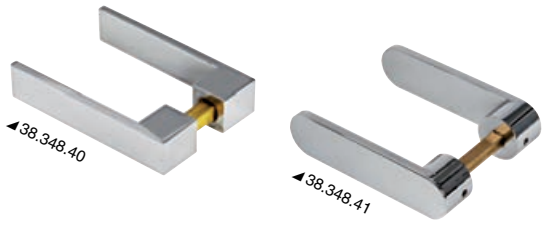
Classic handles

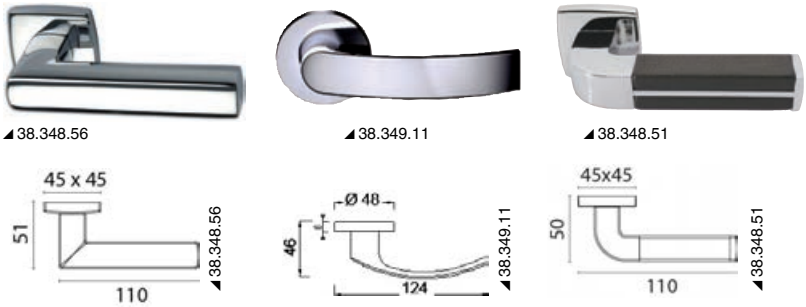
Code	Fitted with washer	Type	⟷ mm	Material	Square pin mm
38.395.00	no	Oval M	26x51	Chromed brass	8
38.340.50	no	Style	40x32	Anodized aluminium	8
38.348.50	no	Classic	80x35	Chromed brass	8
38.348.46	no	Kata	113	Chromed brass	8
38.348.47	no	Kata II	85	Chromed brass	8
38.348.48	no	Spoon	82	Chromed brass	8
38.348.60	yes	Guerini	133	Chromed brass	8
38.348.52	no	-	58x46	Chromed brass	9



Handles

Code	Fitted with washers	Type	⟷ mm	Material	Square pin mm
38.349.11	Yes	Slim	124	Chromed brass	8
38.348.40	Yes	Nauta S	100	Polished AISI 316 SS	8
38.348.41	Yes	Nauta R	120	Polished AISI 316 SS	8
38.348.56	Yes	Square	110	Chromed brass	8
38.348.51	Yes	CPC	110	Chromed brass + coffee colour leather	9





► Door handles and accessories

◢38.348.08/61

◢38.348.11

◢38.348.10

Handle washers

Chromed brass. Sold in pairs.

Code	Ø mm	Version
38.348.61*	45	For Yale locks
38.348.08*	48	For Yale locks
38.348.10	28x53	Round hole
38.348.11	45	Round hole

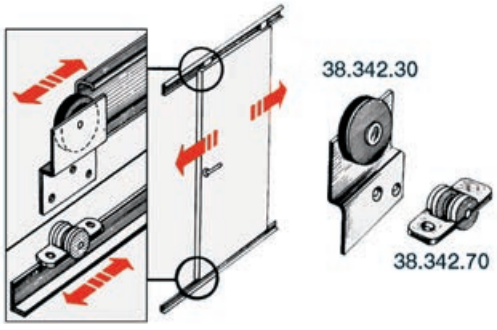
* *snap mounting on polyamide base, hidden screws*

► Sliding door accessories

Nickel-plated brass rail and carriage slide for sliding doors

Made of **nickel-plated brass**, designed for mounting on the lower part of the door; sold by 2-meter bars.

Code	Product	⟷ mm	Note
38.342.80	rail	30x12x2000	-
38.342.90	car	64x37	Ø wheel 30 mm



Stainless steel rail and carriage slide for sliding doors

Code	Part	Description	⟷ mm	Mounting
38.342.20	upper	**stainless steel** rail	45x14x2000	on the upper part of the door
38.342.30	upper	Sliding traveller with self-lubricating plastic wheels	support 60x70	each door needs two travellers
38.342.60	lower	stainless steel rail	12x11x2000	on the lower part of the door
38.342.70	lower	car with wheel	38x15	each door needs two travellers

 # Sold in 2-meter bars.

Shelves

38.026.00 Made of **stainless steel**, designed for cabin tables; model fitted with two hooks an two hook supports; pressed pieces, very sturdy.

► Coat hangers and accessories

Coat hanger with 3 swivelling hooks

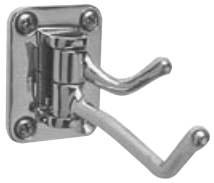
Code	Version	Plate mm
38.162.00	**polished brass**	73x36
38.162.01	**chromed brass**	73x36

Coat hanger with 4 swivelling hooks

Code	Version	Plate mm
38.205.00	**polished brass**	81x39
38.205.01	**chromed brass**	81x39

Coat hanger made of cast polished AISI 316 stainless steel

AISI 316



Code	Base mm	Thickness mm
38.313.00	38x53	90 (max)

Foldaway coat hangers

Stainless steel spring.

Code	Version	⟷ mm
38.104.01	**Chromed brass**	75x25
38.104.02	**Polished brass**	75x25

Coat hanger

made of **polished stainless steel**.

Code	Base mm	Size mm
38.031.31	40x26	70

AISI316 stainless steel cast hook

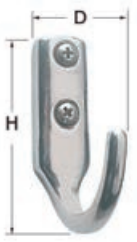
made of **cast polished stainless steel**.

Code	D mm	H mm
38.313.50	25	25
38.313.90	22	30
38.313.40	29	32
38.313.30	25	41
38.313.45	33	53
38.313.70	47	27
38.313.80	66	36

◢ 38.313.90/40

◢ 38.313.50

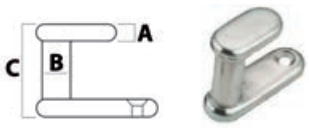
◢ 38.313.70/80



◢ 38.313.30/45

Coat hook

AISI 316

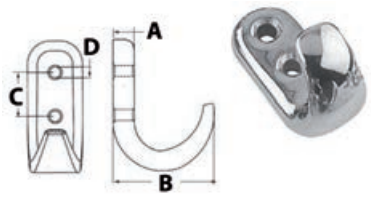


Made of polished **AISI 316 stainless steel**.

Code	A mm	B mm	C mm
38.031.29	5.7	9.2	30

Double-screw cast hook

AISI 316



Made of cast **mirror polished AISI 316 stainless steel**.

Code	A mm	B mm	C mm	D mm	ORDER BY BOX
38.301.09	6.5	31	10	3.6	10

Multipurpose hook

Made of **polished stainless steel**.

Code	Length mm	Base
38.102.10	55	two holes

Plate with ring

AISI 316

Made of **AISI 316 stainless steel**.

Code	Base mm	Overhang mm	ORDER BY BOX
38.301.11	27x30	19	10

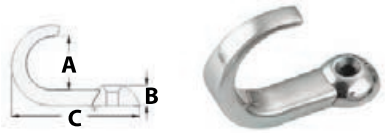
Compact cast hook

AISI 316

Made of cast mirror polished **AISI 316 stainless steel**.

Code	Base mm	thickness mm	ORDER BY BOX
38.301.10	23x23	20	10

Single-screw hook



Made of polished **AISI 316 stainless steel**.

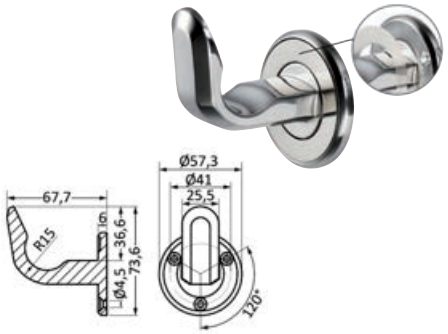
Code	⟷ AxBxC mm
38.301.08	15x5.7x35.8

High-resistance single-screw hook

Mirror-polished **AISI316 stainless steel**.

Code	⟷ mm
38.301.14	47x16x44

High-resistance hook with hidden screws



Mirror-polished **AISI316 stainless steel**. The **screws** are **hidden by a self-adhesive bezel** made of polished AISI316 stainless steel .

Code	⟷ mm
38.301.15	73.6x67.7x57.3

Multipurpose hook

made of **chromed brass**.

Code	⟷ mm
38.178.00	43x13x14

Chromed cast hook

Made of **chromed brass**.

Code	⟷ mm
38.102.20	45x33

Moulded stainless steel hook

Made of **polished stainless steel**, designed for wall mounting.

Code	Length mm	Base mm
38.320.00	40	32x15
38.320.01	60	43x20

Ceiling hooks

Made of **polished stainless steel**.

Code	Length mm	Base mm
38.321.00	33	32x15
38.321.01	45	43x20

Pressed hooks

Made of **stainless steel**.

Code	⟷ mm	Base mm
38.102.05	32x24	32x13

Coat hook

Made of **nylon**.

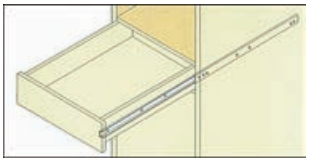
Code	⟷ mm	Base mm
38.105.65	55x24	24x35

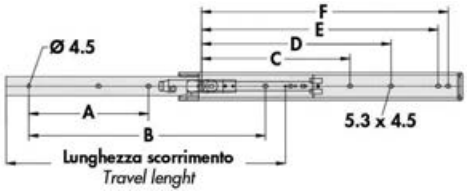
SUGATSUNE

SUGATSUNE slide

Made of **stainless steel**, on sphere for drawers; perfect sliding, heavy duty; two extension parts (3/4 opening). Fitted with limit switch friction to hold the drawer in open position.

Code	Slide length mm	Sliding length mm	A mm	B mm	C mm	D mm	E mm	F mm	Capacity kg
38.272.12	304	300	155	255	98	137	247	260	24
38.272.14	350	347	225	310	-	-	290	310	23
38.272.16	397	397	265	357	-	-	358	378	21





SUGATSUNE

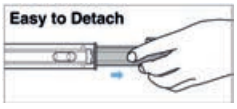
Self & Soft Closing

SUGATSUNE soft-close drawer slide

Stainless steel ball bearing slide. **Total** extension (3 steps).
Soft **automatic** closing: it closes automatically when it reaches 20 or 35 mm from the end of its stoke (series 300/350 mm and series 400/500 mm, respectively).
The drawer can be **removed** from its slides.

Code	Length		Load capacity kgf per pair
	stroke A mm	slide B mm	
38.273.12	275	300	20
38.273.14	353	350	25
38.273.16	404	400	25
38.273.18	455	450	30
38.273.20	505	500	35

Sold in pairs.

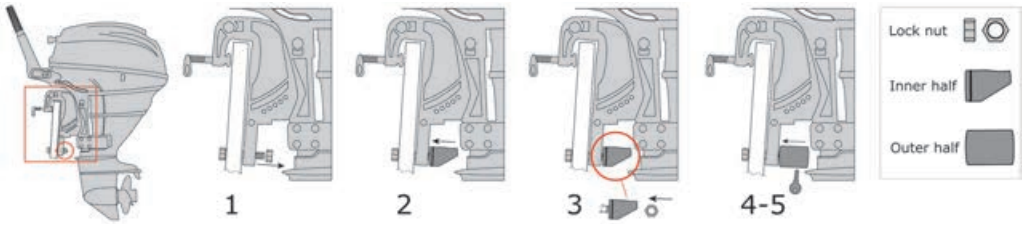


► Padlocks

Sicurbolt antitheft device for outboard engines

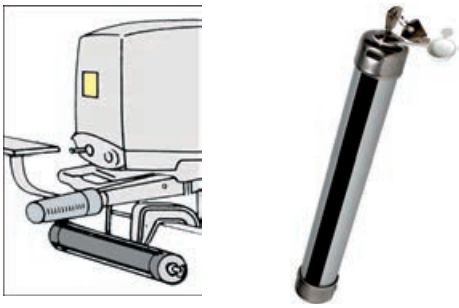
Made of mirror-polished AISI 316 stainless steel.
To be mounted onto one of the outboard engine fastening bolts.
Extra-strong make for higher protection. For all engines.

Code	⟷ mm
38.175.20	Ø48x61



SECURE LOCK antitheft device for outboard engines

Locks the butterfly nut: So the engine cannot plunge into the water; prevents the outboard engine from been stolen, as it the Secure Lock must be broken.
Made of **anodized aluminium** pipe thickness 4 mm (very sturdy);
brass and stainless steel lock with two keys. Tough sturdy look discourages thieves; compact model with in **stainless steel** end-pieces and inner pipe made of anti-rattle foam



Code	For engines
38.175.10	up to 25 HP
38.175.11	over 25 HP ad for all Mercury engines

Antitheft device made of stainless steel for outboard engines

It locks the wing nuts and is equipped with **marine** padlock with chromed-brass body, **stainless steel arc and springs**, water **self-draining** system.

Code	Length mm	Recommended for engine upto HP
38.176.10	230	25
38.176.11	280	over 25

Padlock fitted with Abloy safety key

Chromed brass body, fitted with **stainless steel** shackle.

Code	⟷ mm	A mm
38.021.25	25	19
38.021.30	30	20
38.021.40	40	26
38.021.50	50	31
38.021.60	60	38

Set of 4 marine padlocks with the same ABLOY safety key

Four padlocks in display blister with four identical keys. Chromed brass body and stainless steel arc.

Code	⟷ mm	A mm
38.022.34	30	20

Special marine padlocks

Made of **marine bronze and stainless steel shackle**, sold in single boxes.

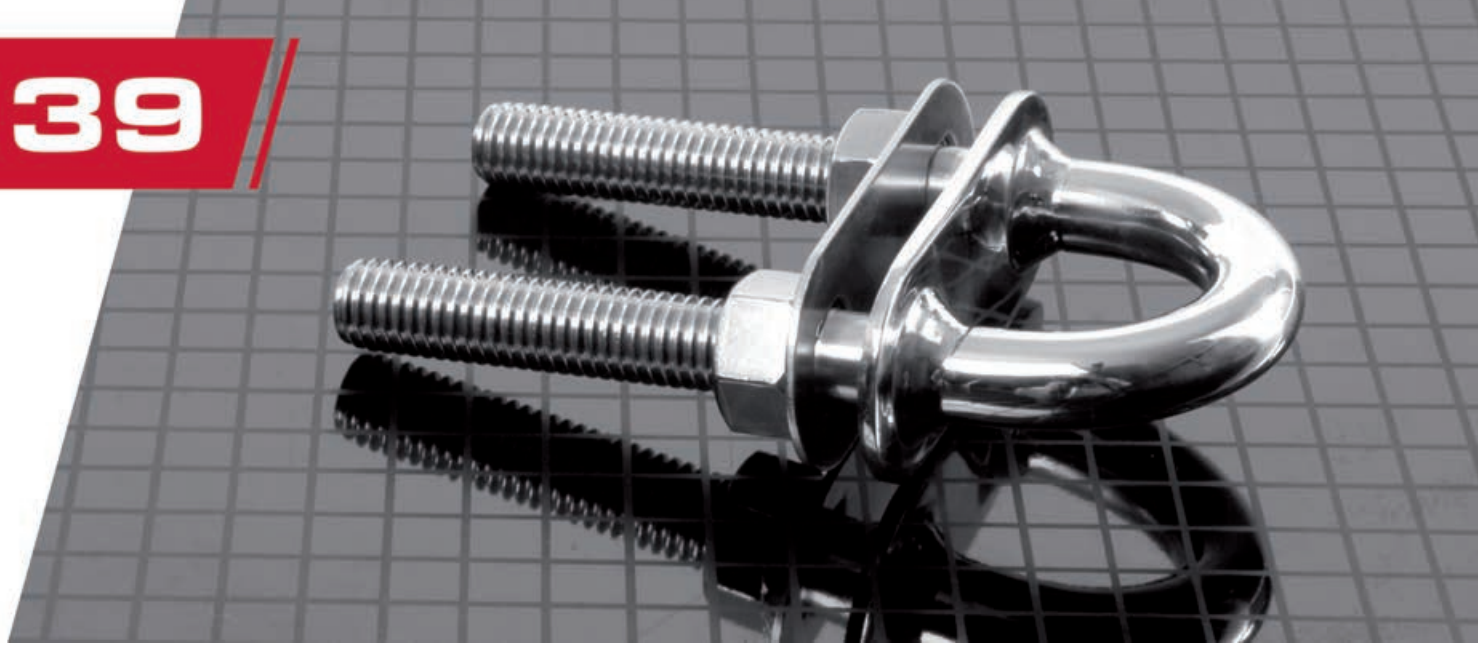
Code	Arc size mm
38.024.30	30
38.024.40	40
38.024.50	50

Heavy duty burglar-proof locks with Fisher key

AISI 304

Body and shackle made of AISI304 stainless steel, locking mechanism made of chromed brass.

Code	Arc mm
38.025.30	30
38.025.40	40
38.025.50	50



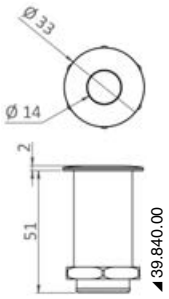
► U-bolts

OSCULATI

◢ 39.840.00

◢ 39.840.01

◢ 39.840.10



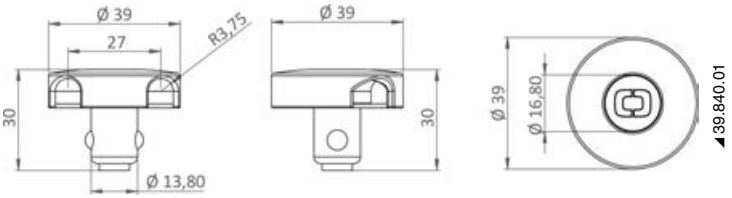
New **Rapid Lock system for fenders and bimini tops**

AISI 316

FLUSH

Quick coupling/release system for fast fastening of fenders, Bimini tops, etc. Made of AISI316 stainless steel. When not in use, the recess base is flush with the surface.
Fitted with Dyneema ring for fastening to the fender/Bimini top.

Code	Description	⟷ mm
39.840.00	Base Rapid Lock	Ø 33 x 53 h
39.840.01	Removable part	Ø 39 x 30 h
39.840.10	Dyneema ring	Ø 7



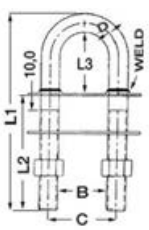
OSCULATI

U-bolt with two plates

AISI 316 Made of **stainless steel**.

Code	Length mm	Plate mm	Thread length mm	U Ø mm	Thread Ø mm	Centre distance mm	ORDER BY BOX
39.125.07	80	45x13	40	6	5	35	5
39.125.06	90	45x13	45	8	6	35	5
39.125.01	105	50x15	60	10	8	35	5
39.125.02	105	75x40	60	10	8	35	5
39.125.03	110	60x15	65	10	8	45	5
39.125.04	110	80x40	65	10	8	45	5
39.125.00	135	70x20	75	12	10	50	-
39.125.05	155	100x27	95	14	12	65	-

OSCULATI



De Luxe U-bolt for conic fittings.

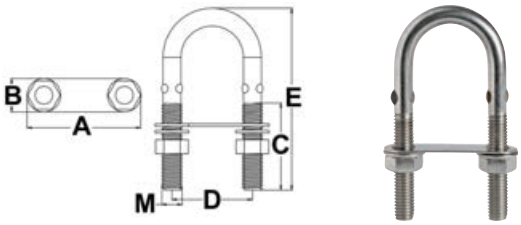
AISI 304 Made of **mirror-polished stainless steel**.

Code	D mm	L1 mm	L2 mm	L3 mm	B mm	C mm	Breaking load kg
39.127.01	9.5	100	63	27.5	26.1	35.7	7826
39.127.02	9.5	120	83	27.5	26.1	35.7	7826
39.127.03	9.5	110	63.5	35	26.1	35.7	7826
39.127.05	12.5	122	76	34	34	46	9000
39.127.06	12.5	136	90	34	34	46	9000
39.127.07	12.5	131	76.2	41	34	46	9000
39.127.09	15.8	160	91	69	47.5	60	11000

U bolt made with rod

Made of **AISI304 stainless steel**.

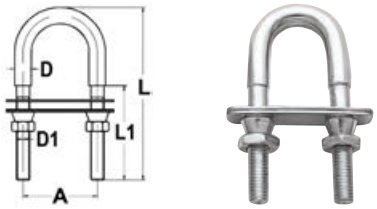
Code	A mm	B mm	C mm	D mm	E mm	M mm	ORDER BY BOX	Breaking load kg
39.126.01	45	12	30	30	60	M4	10	1100
39.126.02	50	13	40	36	80	M5	10	1900
39.126.03	50	15	40	36	90	M6	10	2700
39.126.04	50	15	40	36	80	M8	10	4000
39.126.05	70	20	55	52	90	M10	10	6600
39.126.06	83	23	65	62	150	M12	-	11000



U-bolt with self-gripping safety nut

AISI 316 Made of **stainless steel**.

Code	D1	L1 mm	L mm	D mm	A mm
39.123.01	M8	60	100	10	40
39.123.02	M10	48	100	12	40
39.123.03	M12	58	120	14	50

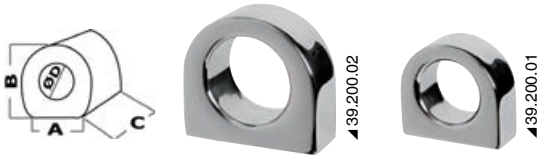


► Eyebolts and rings

Towing/lifting rings

AISI 316 Made of mirror polished AISI 316 stainless steel.

Code	A mm	B mm	C mm	D Ø mm	Mounting with
39.200.01	38	35	15.6	21	2 x 5-mm studs
39.200.02	50	45	19.7	30	2 x 8-mm studs



Pulling/holding ring

Made of **chromed bronze**.

Code	Pin mm	g
39.119.00	10x90	210

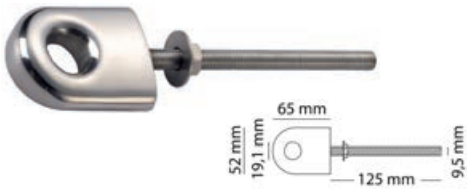
Pulling/holding ring

Made of **chromed bronze**, fitted with two studs.

Code	⟷ base mm
39.118.00	100x43

Bow or stern ring, made of polished stainless steel AISI 316

Code	Studs mm	Working load kg
39.116.00	10	1100



Stainless steel spring-locking ring

39.147.00 Designed as hook for water-ski line haul, dinghies or small boats; sturdy and practical.

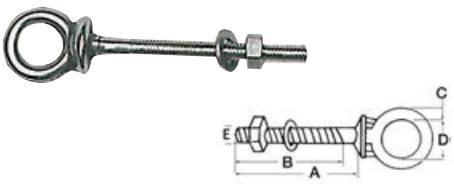
Multi-purpose ring

AISI 316 stainless steel.

Code	Base mm	Overhang mm
39.301.07	30x27	28

Double eyebolt for dinghy stern mounting

Code	Material	pin Ø mm	Length mm	round ring Ø mm
39.170.91	S.S	8	60	8
39.170.92	S.S	10	80	10



Eyebolts

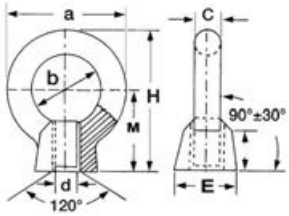
Made of mirror polished **AISI 316 stainless steel** press-forged without welded parts; maximum sturdiness and reliability.

Code	E mm	A mm	B mm	C mm	D mm	ORDER BY BOX
39.181.01	6	40	34	5	12	10
39.181.02	6	60	54	5	12	10
39.181.04	8	100	90	6	14	10
39.181.05	10	100	88	8	16	10
39.181.06	12	120	105	10	18	10

Eyebolts

Made of press-forged **AISI 316 stainless steel**, very sturdy and practical.

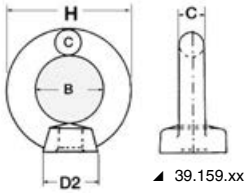
Code	Pin	Length mm
39.182.01	6 MA	60
39.182.02	8 MA	80

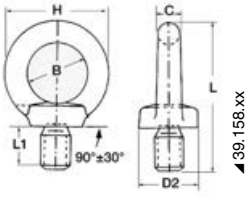


Threaded eyebolts

Made of mirror-polished **AISI 316 stainless steel**, with thread.

Code	a mm	b mm	c mm	E mm	M mm	H mm	Thread d mm	g
39.306.06	26	16	5	13	13	28.3	M 6	45
39.306.08	32.6	20	6.3	16	17	33.3	M 8	80
39.306.10	41	25	8	20	21	41.5	M 10	150
39.306.12	50	30	10	25	26	51	M 12	220





Eyebolt

With cast AISI316 stainless steel eye.

Female	Male	Breaking load kg	Thread C mm	B mm	H mm	L mm	L1 mm	D2 mm	ORDER BY BOX
39.159.06	**39.158.06**	1300	M 6	16	28	41	13	17	10
39.159.08	**39.158.08**	1450	M 8	20	36	48	13	20	10
39.159.10	**39.158.10**	2000	M 10	25	45	62	17	25	10
39.159.12	**39.158.12**	2800	M 12	30	54	75	21	30	10
39.159.16	**39.158.16**	5850	M 16	35	63	90	27	35	10

Swivel ring with pin

Made of **chromed brass**.

Code	ring Ø mm	pin Ø mm
39.170.60	45	3/8
39.170.61	50	1/2

Swivel ring with stainless steel pin

Made of **stainless steel**.

Code	Ø mm	Length under the head mm
39.170.62	10	55

Swivelling ring

Made completely with **chromed bronze**.

Code	Ring Ø mm	Plate mm
39.170.70	35	40x30

Ring with screws

Made of **chromed bronze**, very sturdy.

Code	⟷ mm
39.580.00	50x30x25

Ring with stud

Made of **chromed brass**, sturdy and elegant.

Code	⟷ mm
39.580.01	80x35x25

Rings for mounting fenders or for general use

Made of **polished AISI 316 stainless steel**.

Code	Eye Ø mm	Base mm	Altezza mm
39.167.01	13	32x26	24
39.167.02	22	46x38	38

2-hole plate with U-bolt

Made of **polished stainless steel**.

Code	Ø mm	A mm	B mm	C mm	ORDER BY BOX
39.323.01	5	20.5	33	4.5	10
39.323.02	6	25.5	40	4.5	10
39.323.03	8	31	50	5.5	5

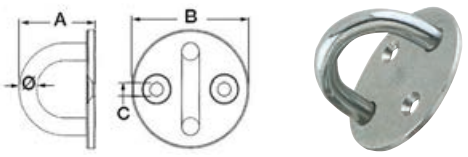
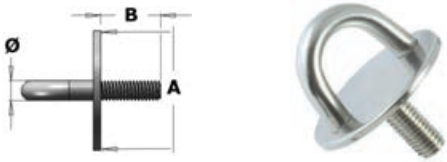


Plate with U-bolt and stud

Polished stainless steel

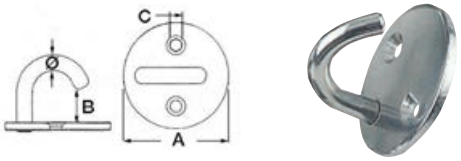
Code	Ø mm	A mm	B mm	Thread mm	ORDER BY BOX
39.325.01	5	32	20	M6	10
39.325.02	6	40	22	M8	5
39.325.03	8	50	26	M10	5



Round plate hooks

Made of **polished stainless steel**.

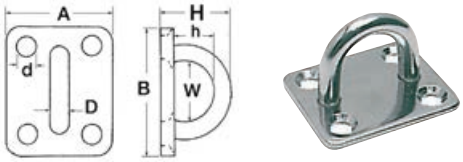
Code	Ø mm	A mm	B mm	C mm	ORDER BY BOX
39.324.01	5	33	8.5	4.5	10
39.324.02	6	40	12.5	4.5	10
39.324.03	8	50	14.5	5.5	5



Rectangular plates fitted with ring

Made of **stainless steel**.

Code	D mm	A mm	B mm	H mm	h mm	W mm	d mm	g
39.320.05	5	30	35	19	12	14	4.2	29
39.320.06	6	35	40	26	17	18	4.2	40
39.320.08	8	40	50	33	22	20	5.2	70
39.320.10	10	48	60	40	30	25	5.5	100



Extra-strong precision-cast eyebolt

Made of investment cast mirror polished **AISI 316 stainless steel**, fitted with 4 screws; used as strength point in deck or for heavy-duty use.

Code	Length mm	Width mm	Eye mm
39.168.40	79	49	20x10
39.169.40	88	55	28x12

Precision-cast eyebolt

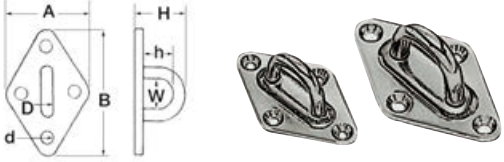
Made of investment cast mirror polished **AISI 316 stainless steel**, fitted with 2 screws.

Code	Length mm	Eye Ø mm	g
39.168.41	75	16	60
39.169.41	90	20	110

Plate bridge rings

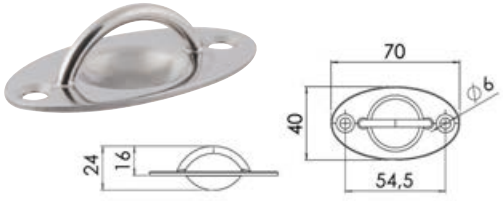
Made of **stainless steel**, fitted with 4 holes.

Code	D mm	A mm	B mm	H mm	h mm	W mm	d mm	g
39.132.05	5	37	59	22	12	11	4.2	32
39.132.06	6	40	64	26	15	15	4.2	44
39.132.08	8	50	80	33	20	18	5.2	77



Semi-recessed eyebolts

39.169.00 Made of AISI 316 stainless steel.
Semi-recessed version for better sliding of the line.



► Pad-Eye foldable rings

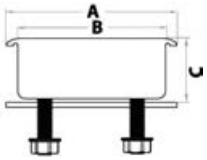
OSCULATI

FLUSH DECK power point

AISI 316

High-resistance power point suitable to fasten rafts, inflatables, etc. on deck or platforms. or to fasten lifelines or other on sail boats.
Mirror polished AISI 316 stainless steel.

Code	A mm	B mm	C mm	Breaking load kg
39.865.00	70	60	21	1100



Electro-polished foldable half-rings

Very thick (2.85 mm) stainless steel plate and counterplate (1.42 mm).

Code	Base mm	Ring section mm	⟷ Ring mm
39.868.06	58x50	6	51x39
39.868.08	58x50	8	56x43

◢ 39.866.80/81

◢ 39.866.85

◢ 39.866.86/87/88

Foldable stainless steel rings

AISI 316

Also designed as strength points; **AISI 316** stainless steel base, excellent corrosion resistance, it can bear heavy loads, vibration-dampening **rubber** washers.

Code	Base mm	Breaking load kg
39.866.80	with 3 holes 48x49	1500
39.866.81	with 3 holes 65x64	2200
39.866.85	Depresses bollard, 48x49	1500
39.866.86	with 4 holes 45x45 mm	900
39.866.87	with 4 holes 51x5 mm	1500
39.866.88	with 4 holes 76x76 mm	3000

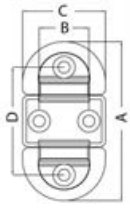
OSCULATI

◢ 39.870.00

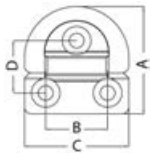
◢ 39.870.01/02/03

◢ 39.871.01/ 02/03

◢ 39.871.01/02/03



◢ 39.871.01/02/03



◢ 39.870.01/02/03

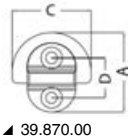
Folding pad eyes with HR forged eye

AISI 316

FORGE RING

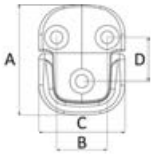
Mirror-polished pad eyes with full forge eye for maximum mechanical strength. Fitted with anti-vibration rubber. It comes in a recyclable display package showing breaking load values. Same centre distance as Wichard having similar dimensions.

Code	Type	⟷ mm				Eye section Ø mm	Screw Ø mm	Breaking load kg
		A	B	C	D			
39.870.00	Single, small, 2 bores	46	-	45	23	6	6	1800
39.870.01	Single, small	47	27	45	25	6	6	2200
39.870.02	Single, medium	61	35	59	30	8	6	4000
39.870.03	Single, large	77	46	75	40	10	6	7000
39.871.01	Double, small	87	27	45	60	6	6	3600
39.871.02	Double, medium	99	35	59	60	8	6	6800
39.871.03	Double, large	126	45	75	79	10	6	12000



◢ 39.870.00

OSCULATI



Square pad eyes with HR folding forged eye

AISI 316

FORGE RING

Mirror-polished square pad eyes with full forge eye for maximum mechanical strength. Fitted with anti-vibration rubber. It comes in a recyclable display package showing breaking load values. Same centre distance as Wichard having similar dimensions.

Code	Type	⟷ mm				Ring section Ø mm	Breaking load kg
		A	B	C	D		
39.873.01	Square Small	57	27	45	23	6	2700
39.873.02	Square Medium	75	35	60	30	8	5100

Folding pad-eye and plate, two bores

Made of high strength polished **stainless steel** (17-PH4).

Code	Base mm	Ring section Ø mm	Breaking load kg
39.869.01	28x54	6.8	1500
39.869.02	45x66	9.2	2200

Folding pad-eye and plate

Fitted with forged polished AISI 304 steel supports.

Code	Base mm	Ring section Ø mm
39.868.01	28x12	3
39.868.02	51x32	6
39.868.03	68x38	8

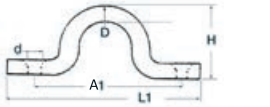
► Jumpers

Stainless steel flush-mount eye bridge

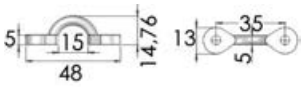
Made of **stainless steel**, forged and polished.

Code	D mm	L1 mm	H mm	A1 mm	d mm	ORDER BY BOX
39.322.04	4	42	15	32	3.8	10
39.322.05	5	50	18	37	4.5	10
39.322.06	6	61	22	46	5.6	20
39.322.08	8	67	25	49	6.9	20
39.322.10	10	84	28	61	9.3	10
39.321.00*	5	48	15	35	4.8	10

* *Microcast model*



◢ 39.322.xx

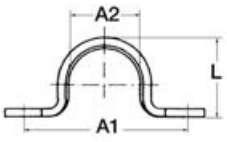


◢ 39.321.00

Forged eye bridges with central rib

Made of **stainless steel** plate.

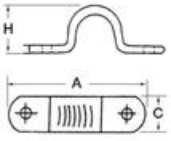
Code	A1 mm	A2 mm	L mm	Holes Ø	ORDER BY BOX
39.176.74	28	11	12	4	10
39.176.75	34	15	14	5	10
39.176.76	44	20	19	5	10
39.176.77	63	28	28	5	10
39.176.78	67	32	33	6	10



Stainless steel plate eye bridge

Made of **polished AISI 316 stainless steel** plate.

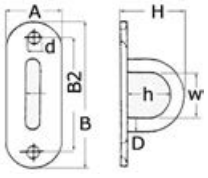
Code	A mm	H mm	C mm	Plate thickness mm	ORDER BY BOX
39.319.01	43	11	11	1.2	10
39.319.00	47	14	11	1.2	10



Eye bridges with flat base

Made of polished **stainless steel**.

Code	D mm	A mm	B mm	B2 mm	H mm	h mm	W mm	d mm	ORDER BY BOX
39.002.00	5	16	54	38	20	13	15	5	10
39.003.00	6	20	60	46	25	17	16	5.2	10
39.004.00	8	26	80	55	32	21	20	5.2	10
39.005.00	10	32	100	73	35	25	22	6.5	10

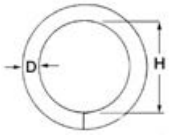


► Stainless steel Rings, Triangles and D-Rings

Round ring

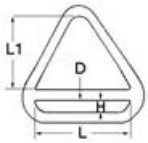
Code	D mm	H mm	ORDER BY BOX
39.595.00	4	20	10
39.597.00	5	30	10
39.597.01	5	25	10
39.597.02	5	35	10
39.597.05	6	30	10
39.598.00	6	40	10
39.598.01	6	50	10

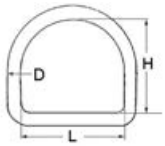
Code	D mm	H mm	ORDER BY BOX
39.598.02	6	60	5
39.595.99	8	40	5
39.596.00	8	50	5
39.596.01	8	60	5
39.596.03	10	60	-
39.596.05	10	80	-



Triangle with bar for sail ties

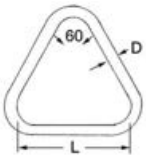
Code	D mm	L mm	H mm	L1 mm	ORDER BY BOX
39.601.01	5	45	5.5	40	5
39.601.02	6	50	7	45	5
39.601.03	8	50	8	45	5





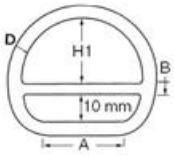
D-Ring

Code	D mm	L mm	H mm	ORDER BY BOX
39.599.20	5	25	22	10
39.599.30	6	30	27	10
39.599.40	6	40	37	10
39.599.50	6	50	47	10
39.599.80	8	50	47	10



Triangle for sail ties

Code	D mm	L mm	ORDER BY BOX
39.599.99	4	20	10
39.600.00	5	30	10
39.600.01	5	45	10
39.600.02	6	50	-
39.600.03	8	50	-



Semi-circle with bar for sail ties

Code	D mm	A mm	B mm	H1 mm
39.602.01	5	45	10	25
39.602.02	6	50	10	28
39.602.03	8	50	10	28
39.602.04	10	60	12	32

► ROPEYE textile loops

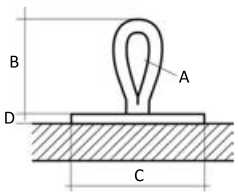
Ropeye

◢ 39.811.01

◢ 39.810.02

◢ 39.810.01

◢ 39.811.02

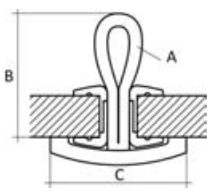


New

ROPEYE XXS/XS stick-on textile loop

Ropeye has two different types of XXS loops: carbon & glass fibre. The loops are used as stick-on's on a sanded surface to glue the loops to. For elastic gluing: SIKAFLEX 291i 65.289.XX.
Ideal as inside fitting to organize equipment without the need to drill holes for installation.

Code	Ropeye Code	Material	Rope (A) mm	Ring (B) mm	Base-Ø (C) mm	Width (D) mm	Weig ht g	Breaking loag kg
39.810.01	ROXXS-C	Carbon fibre	3	20	30	3	3.0	75
39.810.02	ROXXS-GF	Glass fibre	3	20	30	3	3.0	75
39.811.01	ROXS-C	Carbon fibre	3	30	40	3	5.9	150
39.811.02	ROXS-GF	Glass fibre	3	30	40	3	5.9	150

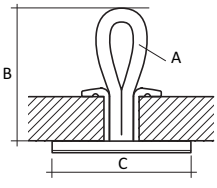


New

ROPEYE Pro Loop pad eye for deck attachment

Carbon and textile deck attachments for indoor and outdoor applications. Loops must always be used with Ropeye DTDP for maximum performance. Loops are used as stick-on's on a sanded surface to glue the loops to. Ropeye SLR complements the Ropeye Pro Loop range. (TDP and SLR not included).

Code	Ropeye Code	Material	Rope (A) mm	Ring (B) mm	Base Ø (C) mm	Weight g	Breaking load kg
39.815.01	ROPRO50/40-4	Carbon	4	40	50	17.5	1100
39.815.02	ROPRO50/60-4	Carbon	4	60	50	18.5	1100
39.815.03	ROPRO60/80-6	Carbon	6	80	60	32	2200
39.815.04	ROPRO70/120-8	Carbon	8	120	70	55	3500



New

ROPEYE Loop pad eye for deck attachment

Carbon and textile deck attachments for indoor and outdoor applications. Loops must always be used with Ropeye TDP. Loops are used as stick-on's on a sanded surface to glue the loops to. For elastic gluing: SIKAFLEX 291i 65.289.XX. Ropeye SLR complements the Ropeye Loop range. (TDP and SLR not included).

Code	Ropeye Code	Material	Rope (A) mm	Ring (B) mm	Base Ø (C) mm	Weight g	Breaking load kg
39.813.01	ROL40-4	Carbon	4	40	50	15	800
39.813.02	ROL60-4	Carbon	4	60	50	16.5	800
39.813.03	ROL80-4	Carbon	4	80	50	17	800
39.813.04	ROL40-5	Carbon	5	40	50	15.5	1450
39.813.05	ROL60-5	Carbon	5	60	50	16.5	1450
39.813.06	ROL80-5	Carbon	5	80	50	17.5	1450
39.813.07	ROL40-6	Carbon	6	40	60	27.5	1950
39.813.08	ROL60-6	Carbon	6	60	60	28	1950
39.813.09	ROL80-6	Carbon	6	80	60	30.5	1950

New ROPEYE TDP stick-on bushing for lines

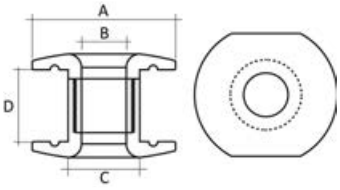
Ropeye Through Deck Pushing is designed to protect the deck in the making of any thru-deck application for lines, halyards and sheets.

Code	Ropeye Code	Material	Head-Ø (A) mm	Inside Ø (B) mm	Outside Ø (C) mm	Length (D) mm	Weight g
39.817.01	ROTDP12	Anodised aluminium	28	8	12	30	8.2
39.817.02	ROTDP14	Anodised aluminium	30	10	14	30	10
39.817.03	ROTDP16	Anodised aluminium	32	12	16	30	11.5
39.817.04	ROTDP18	Anodised aluminium	34	14	18	30	12.3

New ROPEYE Double TDP bushings for lines

Double TDP is adjustable in thickness and strengthens the deck/walls/bulkheads and protects them against abrasion. Recommended for Ropeye Pro Loop.

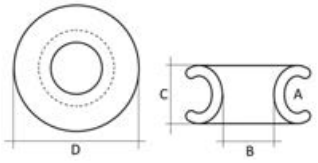
Code	Ropeye code	Material	Head-Ø (A) mm	Inside Ø (B) mm	Outside Ø (C) mm	Length (D) mm	Weight g
39.818.01	ROTDP10/10-12	Anodised aluminium	32	9.5	16	10-12	12.5
39.818.02	ROTDP10/12-16	Anodised aluminium	32	9.5	16	12-16	13
39.818.03	ROTDP10/16-22	Anodised aluminium	32	9.5	16	16-22	15
39.818.04	ROTDP10/22-30	Anodised aluminium	32	9.5	16	22-30	16.5
39.818.05	ROTDP10/30-50	Anodised aluminium	32	9.5	16	30-50	17
39.818.06	ROTDP14/10-12	Anodised aluminium	40	12	20	10-12	22.5
39.818.07	ROTDP14/12-16	Anodised aluminium	40	12	20	12-16	23.5
39.818.08	ROTDP14/16-22	Anodised aluminium	40	12	20	16-22	26
39.818.09	ROTDP14/22-30	Anodised aluminium	40	12	20	22-30	29
39.818.10	ROTDP14/30-50	Anodised aluminium	40	12	20	30-50	29.5
39.818.11	ROTDP18/10-12	Anodised aluminium	48	14	24	10-12	35.5
39.818.12	ROTDP18/12-16	Anodised aluminium	48	14	24	12-16	37
39.818.13	ROTDP18/16-22	Anodised aluminium	48	14	24	16-22	40
39.818.14	ROTDP18/22-30	Anodised aluminium	48	14	24	22-30	45
39.818.15	ROTDP18/30-50	Anodised aluminium	48	14	24	30-50	45.5



New ROPEYE SLR low-friction rings

Ropeye Self-Locking Rings are low-friction rings for indoor and outdoor applications.
Made of anodised aluminium, they are specially designed to let lines, halyards and sheets slide inside the ring channel.

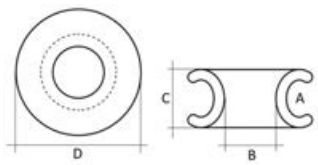
Code	Ropeye Code	Material	Outside (A) mm	Inside (B) mm	Width (C) mm	Ring (D) mm	Weight g	Breaking load kg
39.819.01	ROSLR7-10	Aluminium	7	10	11	24	5	800
39.819.02	ROSLR10-14	Aluminium	10	14	15	34	13	1600
39.819.03	ROSLR14-20	Aluminium	14	20	20	46	30	3200
39.819.04	ROSLR20-28	Aluminium	20	28	31	70	120	6400
39.819.05	ROSLR28-38	Aluminium	28	38	44	99	290	10000



New Complete ROPEYE - schematic for the use of a ROPEYE product

Pro Loop (39.815.xx) + Double TDP (39.818.xx) + SLR ring (39.819.XX).

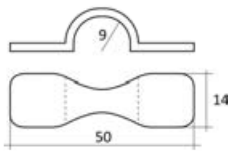
Pro Loop	Double TDP	⟷ mm SLR (A-B)	
39.815.01	**39.818.02; 39.818.03; 39.818.04**	**39.819.01**	Ring 7 - 10
39.815.02	**39.818.02; 39.818.03; 39.818.04**	**39.819.01**	Ring 7 - 10
39.815.03	**39.818.07; 39.818.08; 39.818.09**	**39.819.03**	Ring 14 - 20
39.815.04	**39.818.12; 39.818.13; 39.818.14**	**39.819.04**	Ring 20 - 28



New ROPEYE Eyestrap

Ropeye Eyestrap is a inside fastening point easy to install and very compact in size.
For elastic gluing: SIKAFLEX 291i 65.289.XX.

Code	Ropeye Code	Material	Radius mm	Length mm	Width mm	Weight g	Breaking load kg
39.822.00	ROSOE	Carbon	9	50	14	2	35



SMASH LOCK - Instant locking

40.160.10 - Designed for 6- to 10-mm Ø lines.
Made of AISI316 mirror-polished stainless steel.

► AISI316 stainless steel cleats

Hollow Cleat

AISI 316 Sturdy and practical, mirror-polished finish.

Code	Length mm	Centre distance mm		OPTIONAL base
		long	cross	
40.132.12	125	54.2	24.7	-
40.132.15	150	57.4	27.2	**40.132.45**
40.132.20	200	71.2	33.3	**40.132.46**
40.132.25	250	93.2	44.6	**40.132.47**
40.132.30	300	100	49.2	-

Base

Made of **white plastic**, to be fitted as **washer** under cleats 40.132.15/20/25.
It prevents oxide stains and gives the cleat a better finish.

Code	For cleats
40.132.45	40.132.15
40.132.46	40.132.20
40.132.47	40.132.25

Hollow cleat with oval section

OSCULATI

AISI 316

Code	Length mm	Centre distance mm	
		long.	lcross
40.104.12	120	43.2	31.7
40.104.15	150	55.3	38.9
40.104.20	200	74.9	41
40.104.25	250	93.2	47.5

HEAVY DUTY Hollow Cleat

AISI 316 Oversized version of series 40.132.15/30. Higher breaking load, sturdier look.

Code	Length mm	Centre distance mm	
		long.	Cross
40.134.20	200	84.5	45.2
40.134.25	254	95.4	46.9
40.134.30	305	121.7	63.3
40.134.38	380	123.7	65.1

HEAVY DUTY Hollow Cleat

AISI 316 Stud mounting, made of **mirror-polished AISI316 stainless steel**.

Code	Length mm	Centre distance mm
40.135.25	250	95.3
40.135.30	300	122.4

Italian Style cleat

OSCULATI

AISI 316 Made of **AISI316 stainless steel**, tapered and aerodynamic design, special high-quality finish, 2-stud mounting.

Code	Length mm	Height mm	Centre distance mm	Stud Ø mm
40.174.18	180	32	59.6	8
40.174.24	240	43	79.5	12
40.174.30	300	70	103.3	16
40.174.37	370	73	119.5	16

OSCULATI

Camel cleat

AISI 316

Stud mounting, made of **mirror-polished AISI316 stainless steel**.

Code	Length mm	Centre distance mm	Stud Ø mm	OPTIONAL SS base
40.133.15	150	45.4	6	**40.133.50**
40.133.20	200	59.6	8	**40.133.51**
40.133.25	250	76.3	10	**40.133.52**
40.133.30	300	91.8	12	**40.133.53**

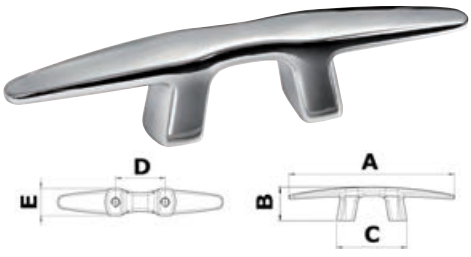
OSCULATI

Reinforcement/finishing base for Camel cleats

AISI 316

Code	⟷ mm	For cleats
40.133.50	25x65	40.133.15
40.133.51	35x90	40.133.20
40.133.52	50x110	40.133.25
40.133.53	60x140	40.133.30

OSCULATI

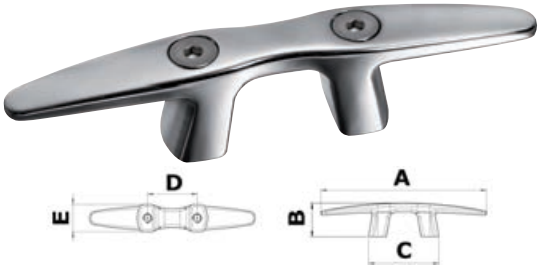


Silhouette cleat

AISI 316 **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Mirror-polished AISI316 stainless steel.

Code	A mm	B mm	C mm	D mm	E mm	Stud Ø mm
40.150.15	150	30.5	63.5	45	24.5	8
40.150.20	200	40	85	60	32.5	10
40.150.25	250	50	106.5	75	40.5	12
40.150.32	320	64	136	96	52	14
40.150.38	380	76	161.5	114	61.5	16



Silhouette cleat with bores

AISI 316

Mirror-polished AISI316 stainless steel.

Codice	A mm	B mm	C mm	D mm	E mm	Thru-hull screw Ø mm
40.153.15	150	30.5	63.5	45	24.5	8
40.153.20	200	40	85	60	32.5	10
40.153.25	250	50	106.5	75	40.5	12
40.153.32	320	64	136	96	52	14
40.153.38	380	76	161.5	114	61.5	16

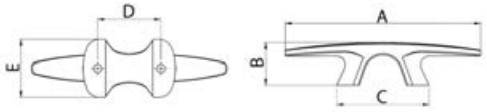
OSCULATI

Bull Dog cleat

AISI 316

Made of mirror-polished AISI316 stainless steel, stud mounting.

Code	A mm	B mm	C mm	D mm	E mm	Stud Ø mm	Recommended studs	OPTIONAL white plastic base
40.131.16	158	35	74	53	49	8	**40.142.09**	**40.131.40**
40.131.20	205	44	94	64	62	10	**40.142.11**	**40.131.41**
40.131.25	255	54	118	80	76	10	**40.142.11**	**40.131.42**
40.131.30	305	65	127	90	82	14	**40.142.14**	-

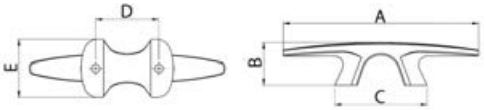


Bull Dog cleat - Black line

AISI 316

Made of polished stainless steel with a surface coating that integrates a black layer in the steel cleat whose surface becomes extremely hard and corrosion-resistant.

Code	A mm	B mm	C mm	D mm	E mm	Stud Ø mm	Recommended studs
40.131.56	158	35	74	53	49	8	**40.142.09**
40.131.57	205	44	94	64	62	10	**40.142.11**



White plastic base for Bull Dog cleats

Help prevent possible oxide filtering and give a better look to the cleats

Code	For cleats
40.131.40	40.131.16
40.131.41	40.131.20
40.131.42	40.131.25

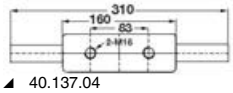
Nordik cleat

OSCULATI

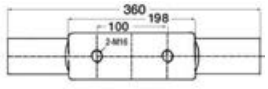
AISI 316 Made of **mirror-polished AISI316 stainless** steel, 2-stud mounting.

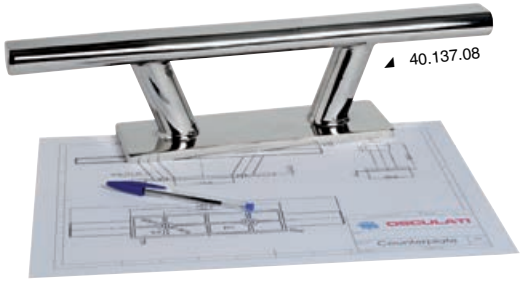
Code	A mm	B mm	C mm	D mm	E mm	Stud Ø mm
40.137.01	150	45	90	47	30	8
40.137.02	205	55	120	69	35	10
40.137.03	265	70	150	83	40	12
40.137.04	310	80	160	83	50	16
40.137.05	310	80	200	83	85 w. basis oval	16
40.137.06	360	90	198	100	60	16
40.137.08	500	120	280	155	85	16

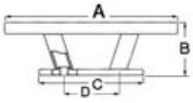
◢ 40.137.03


◢ 40.137.04

◢ 40.137.05


◢ 40.137.06


◢ 40.137.08



Nordik cleat - Black Line

AISI 316 Made of polished stainless steel with a surface coating that integrates a black layer in the steel cleat whose surface becomes extremely hard and corrosion-resistant.

Code	A mm	B mm	C mm	D mm	E mm	Stud Ø mm
40.137.51	150	45	90	47	30	8
40.137.52	205	55	120	69	35	10

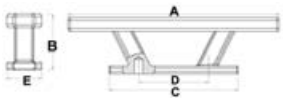
Nordik II precision-cast Cleat

OSCULATI

AISI 316 **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Mirror-polished, stud mounting.

Code	A mm	B mm	C mm	D mm	E mm	Stud Ø mm
40.149.15	150	39.5	91.5	51	25	8
40.149.20	203	54	124	69	33	10
40.149.25	250	66	152.5	83	41.5	12



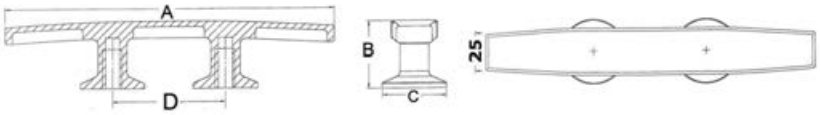
Skandy cleat

OSCULATI

AISI 316 Made of mirror-polished AISI316 stainless steel, 2-stud mounting.

Code	A mm	B mm	C mm	D mm	stud Ø mm
40.148.14	145	30	28	48	8
40.148.19	190	40	36	70	10
40.148.24	240	47	45	79	12

◢ 40.148.24
◢ 40.148.19



OSCULATI

Mushroom cleat

AISI 316

Mirror-polished finish, 2-stud mounting.

Code	Base length mm	Height mm	Width mm	Length max mm	Centre distance mm	Stud Ø mm
40.173.16	160	55	60	160	71.8	10
40.173.20	170	75	67	200	77.3	14
40.173.24	200	90	69	240	87.2	14
40.173.30	260	100	79	300	128.7	16
40.173.35	300	115	86	350	165	16
40.173.42	360	139	102	416	190	20
40.173.45*	380	180	150	466	220	20

* *Supplied with stainless steel mounting counter plate*

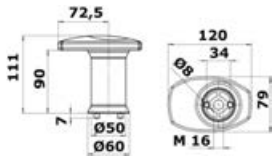
OSCULATI

◢ Example 40.176.02 (2 pcs) + 40.176.40 (1 pc)

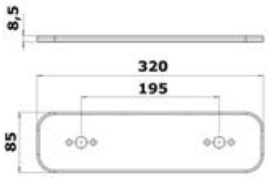
Cleat and fairlead modular system

Stainless steel mushroom module ready for installation on cut-to-measure plates. Cleats and fairleads can be made to the boat's chape by simply cutting and boring the plate. The design of cleats and fairleads will be the same at both bow and stern. The mushroom module can be mounted in all directions. The result will be a custom-made product but at lower costs. Send us a 3D file with external sizes and position of the mushroom modules if you wish us to also make the plate for you.

Code	Description
40.176.02	Single mushroom module
40.176.40	Plate for cleat or fairlead (320 x 85 mm)



◢ 40.176.02



◢ 40.176.40

◢ Example 40.176.02 (3 pcs) + customized plate

Scandinavian mirror-polished AISI316 starinless steel cleat

AISI 316

Code	Length mm	Height mm	Centre distance mm	Stud Ø mm	Mounting
40.137.28	203	52	76	10	2 studs
40.137.30	254	57	102	12	2 studs

Scandinavian mirror-polished AISI316 starinless steel fairlead/cleat

AISI 316

Packed in pairs (1 x right + 1 x left).

Code	Length mm	Height mm	Centre distance mm	Stud Ø mm	Mounting
40.137.85	203	52	76	10	2 studs

OFFSET asymmetric cleat

AISI 316

Made of mirror-polished **AISI316 stainless steel**. Supplied with studs.

Code	Length mm	Height mm	Centre distance mm	Stud Ø mm
40.141.15	152	40	55	8
40.141.20	203	46	73	10

Cleat

AISI 316 Made of **mirror-polished AISI316 stainless steel**.

Code	Length mm	Height mm	Centre distance mm
40.128.12	120	25	30
40.128.16	152	30	35
40.128.19	193	35	43

SAIL cleat

AISI 316 Made of **mirror-polished AISI316 stainless steel**.

Code	Length mm	Height mm	Centre distance mm	Stud Ø mm
40.138.21	220	52	60	2 x 6.5-mm holes
40.138.22	220	52	60	8
40.138.26	260	58	70	10
40.138.30	300	65	81	12

Belaying cleat

AISI 316 Mirror-polished finish, very sturdy, stylish design.

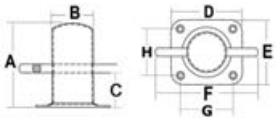
Code	Length mm	Longitudinal centre distance mm	Cross centre distance mm
40.129.15	150	51.8	41.5
40.129.20	200	57.2	41.6
40.129.25	250	54.4	45.2
40.129.30	300	65	58

Ercole cleat

AISI 316 Made of mirror-polished AISI316 stainless steel.

Code	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Stud Ø mm
40.179.50	100	Ø 50	55	90	80	130	66	57	6.5
40.179.60	120	Ø 60	70	120	95	180	95	70	6.5
40.179.70*	142	Ø 70	82	140	118	180	105	80	8.5

* *Cast base*



Stainless steel stud kit for cleats

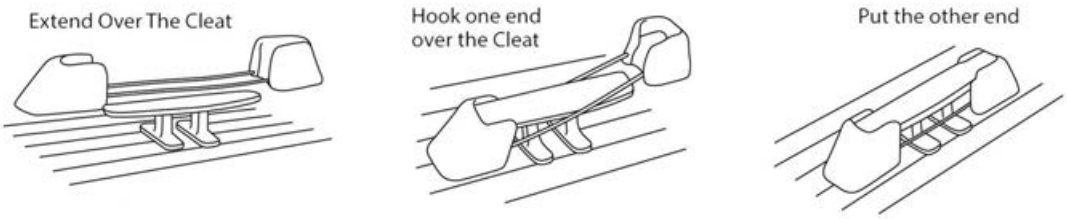
Supplied with nuts and washers (2 studs, 2 nuts, 2 washers).

Code	⟷ mm	Recommended for cleats
40.142.06	6x60	40.133.15
40.142.08	8x60	40.133.20 - 40.174.18 - 40.138.22 - 40.137.01
40.142.09	8x80	40.131.16
40.142.10	10x60	40.133.25 - 40.173.16 - 40.138.26 - 40.137.02
40.142.11	10x80	40.131.20 - 40.131.25
40.142.12	12x100	40.133.30 - 40.138.30 - 40.137.03 - 40.174.24
40.142.14	14x100	40.173.20 - 40.173.24
40.142.16	16x120	40.173.30 - 40.173.35 - 40.174.30 - 40.174.37 - 40.137.04 - 40.137.05 40.137.06 40.137.08
40.142.20	20x120	40.173.42 - 40.173.45

Cleat boots

Made of **white ABS**. Extend over the cleat, hook one end and then the other.
To prevent tumbling while walking on the deck.

Code	Universal for cleats	ORDER BY BOX
40.113.00	200 to 300 mm	4 boots for 2 cleats



► Stainless steel pop-up cleats

Push-up mini-cleat

AISI 316

Ideal for coupling fenders, dinghies or small boats. Made of **mirrror-polished AISI316 stainless steel**.

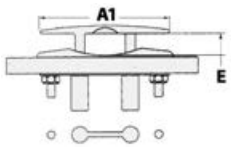
Code	Base mm	Bore mm
40.135.00	89x31	22
40.135.01	134x41	22

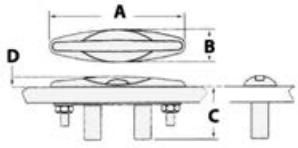
Precision-cast push-up cleat

AISI 316

Made of mirror-polished AISI316 stainless steel.
Fitted with mounting studs and retainer plate.

Code	Length mm		Width mm	Overhang mm			Stud Ø mm	
	A	A1	B	D	C	E		
40.136.01	164	150	38	12	60	23	10	
40.136.02	217	203	50	15	83	36	10	
40.136.03	305	285	70	25	95	52	12 (optional)	40.142.12



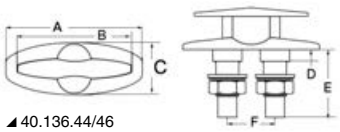


RETRACTpush-up cleat

AISI 316

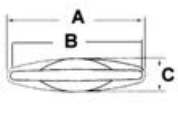
Made of mirror-polished **AISI316 stainless steel**.

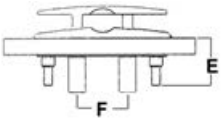
Code	A mm	B mm	C mm	D mm	E mm	F mm	OPTIONAL drainer kit
40.136.44	134	110	38	12	65	46	40.136.64
40.136.46	185	156	50	18	76	60	40.136.66
40.136.48	220	204	50	-	88	71	40.136.68



◢ 40.136.44/46

◢ 40.136.48



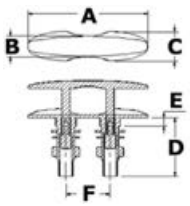


Smart Cleat push-up cleat

AISI 316

Made of mirror-polished AISI316 stainless steel. Very compact.

Code	A mm	B mm	C mm	D mm	E mm	F mm	OPTIONAL drainer kit
40.136.20	126	21	33	68	11	44	**40.136.64**
40.136.21	155	26	38	75	11	57	**40.136.66**
40.136.22	203	39	49	85	13	71	**40.136.68**
40.136.23	260	40	61	103	14	91	**40.136.70**



Water drain pipe for Retracts/Smart/Ghost cleats

Made of flexible black PVC. For water drainage of bilge cleats

Code		For cleats
40.136.64		**40.136.20; 40.136.44; 40.152.16**
40.136.66		**40.136.21; 40.136.46**
40.136.68		**40.136.22; 40.136.48; 40.152.24**
40.136.70		**40.136.23**
40.155.72	New	**40.155.16**
40.155.74	New	**40.155.24**

◢ 40.155.72/74

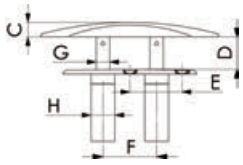
◢ 40.136.64/66/68/70

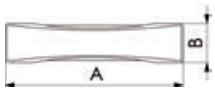
Ghost II hidden cleat

AISI 316 **PERFECT GRIP** **SMOOTH MOVEMENT**

Mounting with screws from above. Very smooth operation.
With ergonomic lifting handle. Fluorinated rubber O-ring for smooth sliding.
ENAVE approved in compliance with ISO 15084:2003.

Code	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	Ø H mm	Mounting	OPTIONAL drain pipe
40.155.16	160	38	15	28	47	48	14	24	3 x M6 screws	**40.155.72**
40.155.24	240	52	20	44	70	72	18	32	3 x M8 screws	**40.155.74**
40.155.31	310	68	25	56	85	93	22	41	3 x M10 screws	-





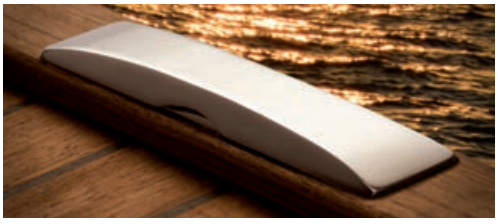
Flat push-up cleat, extra-low profile

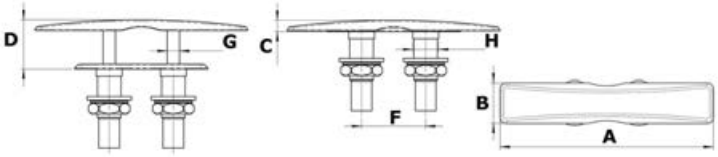
AISI 316 **REGISTERED DESIGN / DISEGNO DEPOSITATO**

OSCULATI

Made of **mirror-polished AISI316 stainless steel.**

Code	A mm	B mm	C mm	D mm	F mm	G mm	H mm	OPTIONAL drainer kit
40.152.16	160	34	9.7	41.7	46	12	24	**40.136.64**
40.152.24	240	44	13	55.5	72	14	29	**40.136.68**
40.151.33	330	61	18.8	80	91	19	42	-



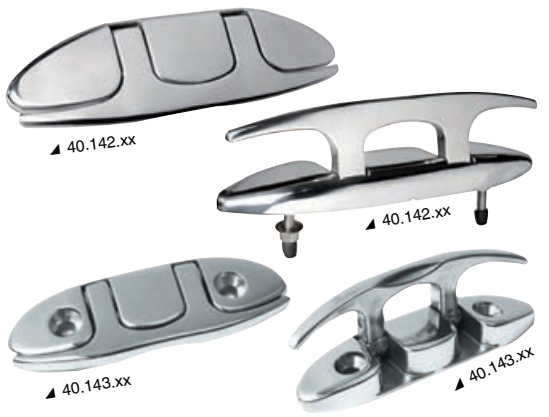


Pop-up cleat

AISI 316

A compct and ergonomic design solution. Made of mirror-polished **AISI316 stainless** steel. Easy to install, no recess fit required.

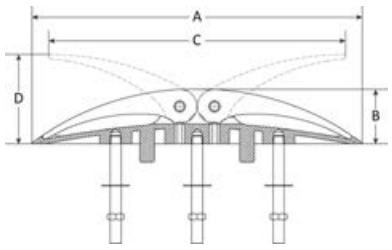
Code	Mounting		Length mm	Width mm	Centre distance mm
40.142.04	With 12x60-mm Ø studs	(not included)	270	83	172
40.142.05	With 16x80-mm Ø studs	(not included)	350	104	219
40.142.01	With 6x40-mm Ø studs	(included)	115	45	67
40.142.02	With 8x45-mm Ø studs	(included)	172	65	115
40.142.07	With 8x45-mm Ø studs	(included)	143	53	92
40.142.03	With 10x50-mm Ø studs	(included)	210	70	137
40.143.01	Screws	(not included)	115	45	67
40.143.02	Screws	(not included)	172	65	115
40.143.07	Screws	(not included)	143	53	92
40.143.03	Screws	(not included)	210	70	137
40.143.04	Screws	(not included)	270	83	172



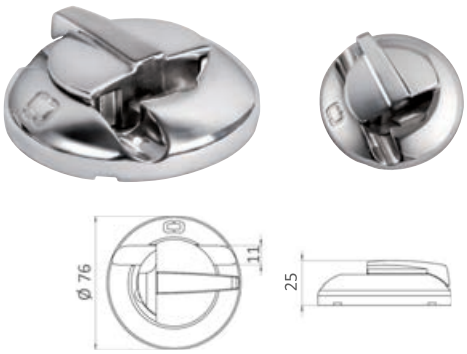
WING pop-up cleat

Made of mirror-polished AISI316 stainless steel. The pop-up mechanism is fitted with snap cam to avoid unwanted opening.

Code	⟷ mm		Studs mm	Breaking load kg
	closed AxB	open CxD		
40.145.01	280x46	235x44	3x12	9460
40.145.02	360x59	322x100	3x16	20120
40.145.03	480x79	431x130	3x16	24500



OSCULATI



Smash Lock fender fixing

AISI 316

Innovative deck accessory for fast fastening of the fenders and line fixing.
Made of AISI316 mirror-polished stainless steel, compact design and instant locking system.

FAST LOCK

Designed for 6- to 10-mm Ø lines. Mounting with M5 countersunk head screws.

Code	⟷ mm		For lines Ø mm
	Ø	height	
40.160.10	76	25	6/8/10

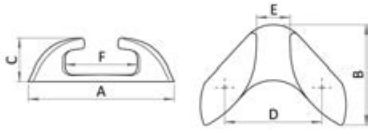
► Capri series stainless steel failead

OSCULATI

Bow fairlead made of stainless steel, Capri series

AISI 316 | **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Code	Description	For line Ø mm	OPTIONAL studs	A mm	B mm	C mm	D mm	E mm	F mm
40.303.00	Bow/stern edges	16	40.142.10; 40.142.11 M10	105	105	31	70	24	52

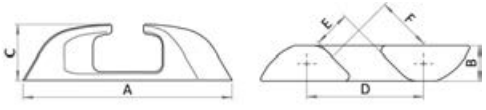


OSCULATI

Angled fairlead made of stainless steel, Capri series

AISI 316 | **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Code	Description	For line Ø mm	OPTIONAL studs	A mm	B mm	C mm	D mm	E mm	F mm
40.323.12	Angled (right+left)	18	40.142.08; 40.142.09 M8	120	20	31	67	21	31
40.323.15	Angled (right+left)	22	40.142.10; 40.142.11 M10	150	25	40	84	27	40

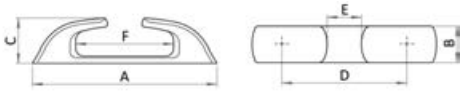


OSCULATI

Straight fairlead made of stainless steel, Capri series

AISI 316 | **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Code	Description	For line Ø mm	OPTIONAL studs	A mm	B mm	C mm	D mm	E mm	F mm
40.303.12	Straight	16	40.142.08; 40.142.09 M8	120	23	31	84	22	64
40.303.15	Straight	20	40.142.10; 40.142.11 M10	150	29	38	102	28	80
40.303.20	Straight	22	40.142.12 M12	200	39	48	135	37	105

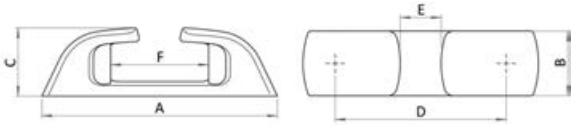


OSCULATI

Straight roller fairlead made of stainless steel, Capri series

AISI 316 | **REGISTERED DESIGN / DISEGNO DEPOSITATO**

Code	Description	For line Ø mm	OPTIONAL studs	A mm	B mm	C mm	D mm	E mm	F mm
40.305.00	Roller version	22	40.142.14 M14	212	58	62	154	37	88



► Stainless steel fairleads

Italian Style fairlead

AISI 316 Sold in pairs (right and left).

Code	Length mm	Width mm	Centre distance mm	Rope max Ø mm	ORDER BY BOX
40.223.15	150	33.5	124	16	2
40.223.20	205	38.5	166	20	2
40.223.25	253	46.5	208	22	2

Fairlead

AISI 316 Sold in pairs (right and left).

Code	Length mm	Width mm	Centre distance mm	Rope max Ø mm	ORDER BY BOX
40.123.12	115	19.5	85.2	14	2
40.123.18	150	27.5	110.8	18	2

Fairlead

AISI 316 Sold in pairs (right and left).

Code	Length mm	Width mm	Centre distance mm	Rope max Ø mm	ORDER BY BOX
40.203.73	112	19.5	84	14	2
40.203.76	150	24	122	16	2

Italian Style straight fairlead

AISI 316 In line, cast AISI316 stainless steel.

Code	Length mm	Width mm	Centre distance mm	Rope max Ø mm	ORDER BY BOX
40.202.20	203	38	166	20	1
40.202.25	255	44.5	221	24	1

Straight fairlead

AISI 316

Code	Length mm	Width mm	Centre distance mm	Rope max Ø mm	ORDER BY BOX
40.201.05	125	24	99.8	12	1
40.201.06	152	22.5	126.7	16	1

Universal fairlead

Made of **mirror-polished AISI316 stainless steel**. For bow or stern corners.

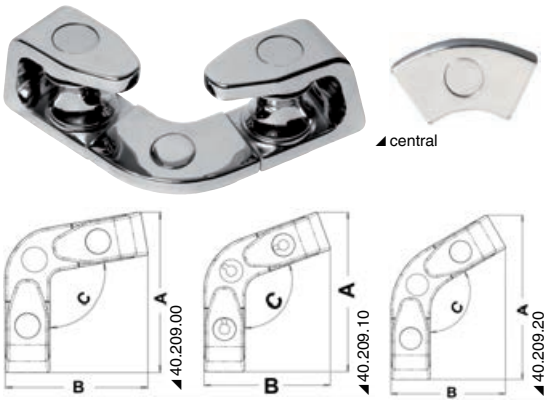
Code	Length mm	Width mm	Centre distance mm	Rope max Ø mm	ORDER BY BOX
40.131.00	105	60	78	14	1

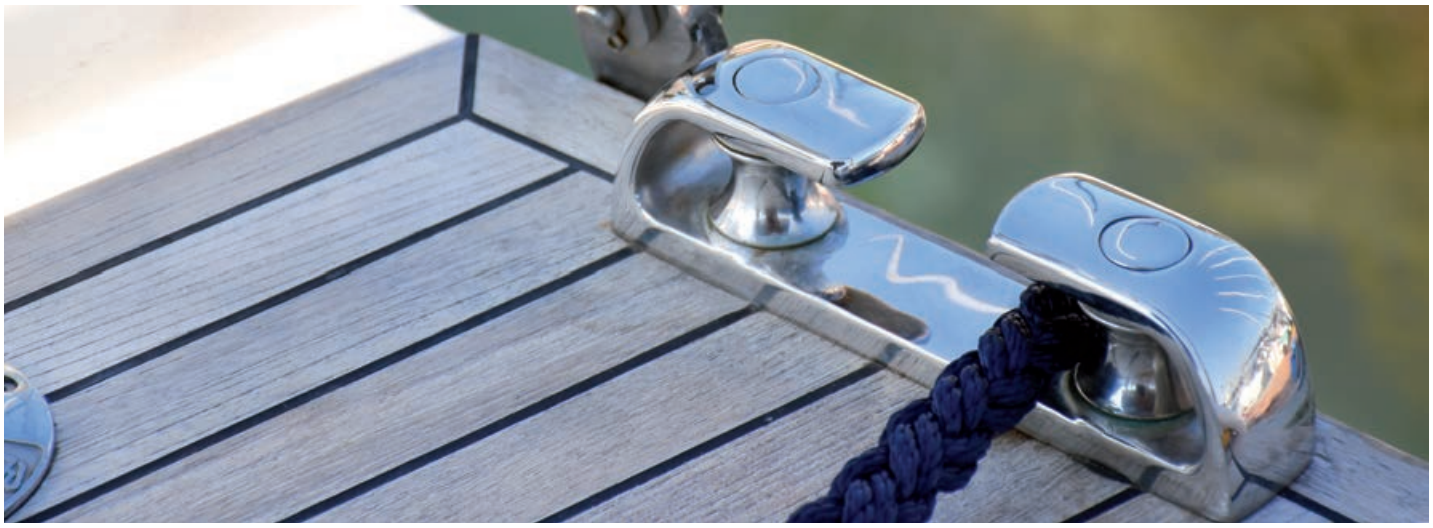
Corner roller fairlead

AISI 316 Mirror-polished finish

Code	Description	Stud Ø mm	Length mm	For rope Ø mm	A mm	B mm	Height mm	Angle C
40.209.00	Angled fairlead with rollers with hidden studs	9	120	16/22	140	124	56	100°
40.209.10	Angled fairlead with rollers with hidden studs	9	120	16/22	152	120	56	110°
40.209.20	Angled fairlead with rollers with hidden studs	9	120	16/22	163	113	56	120°
40.209.25	Only RIGHT/LEFT terminal	-	-	-	-	-	-	-
40.209.26	Only central 100°	-	-	-	-	-	-	-
40.209.27	Only central 110°	-	-	-	-	-	-	-
40.209.28	Only central 120°	-	-	-	-	-	-	-

OSCULATI





OSCULATI

Roller fairlead

AISI 316 Fitted with special patented hidden tensioning rods.

Code	For rope Ø mm	Base mm	Height mm	Centre distance mm
40.205.00	16/22	40x205	55	117
40.206.00	24/32	45x260	75	160

► Aluminium cleats and fairleads

Alloy cleat with 4 bores

Made of **anodized aluminium**, fine polish on all parts.

Code	Length mm	Longitudinal centre distance mm	Cross centre distance mm
40.114.12	120	34.8	30.6
40.114.15	150	46	40
40.114.20	200	52.9	50
40.114.25	250	72	68.7

Alloy cleat with bores

Made of **anodized aluminium** by Osculati, modern and practical design, rounded corners.

Code	Length mm	Centre distance mm
40.110.12	120	25.2
40.110.16	150	33.1
40.110.19	190	40.2

Hidden- screw alloy cleat

Made of **anodized aluminium**, modern and practical design, 2-stud mounting.

Code	Length mm	Centre distance mm	Stud Ø mm
40.107.02	150	57.7	8
40.107.03	200	79.6	8

Cleat with clam

Made of **anodized aluminium**, fitted with clam cleat.

Code	Length mm	For rope Ø mm	Centre distance mm
40.124.00	160	8/14	31
40.124.01	125	6/10	24.8

Hollow Cleat

Made of **anodized aluminium**, American style, practical and sturdy.

Code	Length mm	Longitudinal center distance mm	Cross center distance mm
40.108.15	160	58.7	40.4
40.108.20	210	77.5	45.8
40.108.25	260	94.5	53

Aero cleat

Made of anodized aluminium, fitted with studs (T).

Code	L mm	H mm	E mm	T	T2
40.103.15	158	35	45	M8x70	50
40.103.20	208	38	60	M10x70	50
40.103.25	258	45	68	M12x75	50
40.103.30	308	51	78	M14x80	50
40.103.40	408	63	96	M16x115	80

OSCULATI

Black Aero cleat

Black anodized aluminium. Fitted with studs (T).

Code	L mm	H mm	E mm	T	T2
40.102.15	158	35	45	M10x70	50
40.102.20	208	38	60	M10x70	50
40.102.25	258	45	68	M12x75	50

OSCULATI

Dutch style mushroom cleat

Made of mirror-polished anodized **aluminium**, fine polish on all parts, rounded corners, stud mounting.

Code	Length mm	Width mm	Height mm	Centre distance mm	Stud Ø mm	kg
40.172.53	160	51	61.5	91.5	8	0.5
40.172.54	200	66	76	114.5	10	1.1
40.172.55	250	81	90	145.5	14	2
40.172.56	350	98	130	170	18	6

Fairleads

Made of polished **anodized aluminium**, right and left traditional models, fine polish even inside.

Code	Length mm	Centre distance mm	ORDER BY BOX
40.117.14	140	110	2
40.117.17	170	134.5	2
40.117.21	205	173	2
40.117.26	255	220	2

► Chromed brass cleats, fairleads and handles

Cleat

Made of **chromed brass**, light and sturdy design.

Code	Length mm
40.172.10	80
40.172.12	130

Anvil cleat

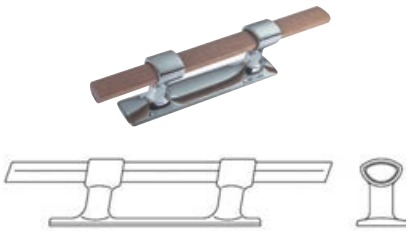
Made of **chromed brass**, 4-bore base.

Code	Length mm	Longitudinal centre distance mm	Cross centre distance mm
40.172.20	50	18.2	13.3
40.172.21	75	30.4	16.9
40.172.22	100	35.2	21
40.172.23	125	44	22.5

Mushroom cleat

Made of **chromed brass**, slender and practical design.

Code	Length mm	Wheelbase mm	Ø Studs mm
40.172.43	140	62.5	6
40.172.44	200	104.9	12
40.172.45	170	90	10



Norwegian style horn cleat

Made of chromed brass. Iroko upper part. With studs.

Code	Length mm	Centre distance mm
40.115.21	210 (wooden terminals)	87.1
40.115.26	260 (wooden terminals)	108.2

Old style cleat

Traditional shape, made of **chromed brass**, fitted with 2 studs.

Code	Length mm	Stud mm	Centre distance mm
40.112.10	100	6	30
40.112.12	120	6	41.1
40.112.15	150	8	44.5
40.112.20	200	10	57.7

Water-ski towing hook

Made of **chromed brass** with chromed brass spline, fitted with 3 bores for screws.

Code	⟷ mm	
40.111.01	95x45x38	225

SEBINO fairlead

Made of **chromed brass**, right and left model, high-quality finish.

Code	Length mm	Centre distance mm
40.122.11	110	86.8
40.122.15	150	123.9

Sold in pairs.

Traditional stern handle

Made of **chromed brass**, slender and practical design, 2-screw mounting.

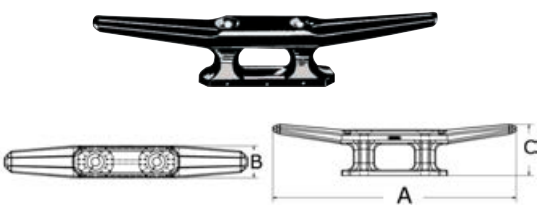
Code	⟷ mm
40.103.00	165x35x45

Traditional bow handle

Made of **chromed brass**, 3-screw mounting.

Code	⟷ mm	
40.100.00	200x33x35	280

► Plastic cleats



Belaying cleat

Made of **nylon**, very sturdy.

☐ White	■ Black	⟷ AxBxC mm	Centre distance mm	Ø bore mm
40.055.31	**40.055.11**	110x15x22.5	28	5.1
40.055.34	**40.055.14**	144x19.5x27.5	34	5.3
40.055.38	**40.055.18**	175x23x25	44	6.1
40.055.32	**40.055.22**	208x27x42	52	8.1

Jamming cleat

Made of **black nylon**.

Code	For sheets	Length mm
40.057.00	from 6 to 12 mm	155

► Stainless steel pulpit joints and bases

Plate base

AISI 316

Made of argon-welded polished **AISI316 stainless steel** plate and pipe. High-quality finish, **hand-mirror polished.**

Code	Version	Base mm	Slope	For pipe Ø mm
41.132.22	rectangular	56x42	60°	22
41.132.23	rectangular	56x42	60°	25
41.133.22	rectangular	56x42	90°	22
41.133.23	rectangular	56x42	90°	25
41.131.22	round	Ø 60	90°	22
41.131.23	round	Ø 60	90°	25
41.130.22	round	Ø 60	60°	22
41.130.23	round	Ø 60	60°	25
41.134.22	sloped T	-	60°	22
41.134.23	sloped T	-	60°	25
41.135.22	straight T	-	90°	22
41.135.23	straight T	-	90°	25

◢ 41.132.22/23

◢ 41.130.22/23

◢ 41.131.22/23

◢ 41.133.22/23

◢ 41.135.22/23

◢ 41.134.22/23

Underplate

Made of **white polyethylene**, for moulded pulpit sockets. For better look of the pulpit, rustproof.

Code	Version	Outer Ø mm	Inner Ø mm	For bases	ORDER BY BOX
41.130.00	round	61.7	57.4	**41.130.22; 41.130.23; 41.131.22; 41.131.23**	10
41.132.00	rectangular	63.8x49.5	59.6x45.2	**41.132.22; 41.132.23; 41.133.22; 41.133.23**	10
41.133.00	round	48.2	44.8	Bases welded to the pulpit with central stud	100

◢ 41.132.00

◢ 41.133.00

◢ 41.130.00

Pulpit socket to be welded

AISI 316

Made of **precision-cast mirror-polished AISI316 stainless steel to be welded**. Very sturdy, fine design, better than moulded plate models.

Code	Version	Base mm	Slope	For pipe Ø mm
41.254.22	round	Ø 69	90°	22
41.255.25	round	Ø 78,5	90°	25
41.253.22	round	Ø 68	60°	22
41.252.25	round	Ø 78,5	60°	25
41.260.22	rectangular	76,2x44	90°	22
41.261.25	rectangular	76,2x44	90°	25
41.258.22	rectangular	76,2x44	60°	22
41.259.25	rectangular	76,2x44	60°	25

Pulpit socket

AISI 316

Made of thick precision-cast mirror-polished AISI316 stainless steel, for 22/25-mm diameter pipes.

Code	Version	Inclination	For pipe Ø mm
41.112.22	Round	90°	22
41.112.25	Round	90°	25
41.113.22	Rectangular	90°	22
41.113.25	Rectangular	90°	25
41.110.22	Round	60°	22
41.110.25	Round	60°	25
41.111.22	Rectangular	60°	22
41.111.25	Rectangular	60°	25

◢ 41.112.22/25

◢ 41.113.22/25

◢ 41.110.22/25

◢ 41.111.22/25

OSCULATI

Tapered base

AISI 316

Made of precision-cast mirror-polished AISI316 stainless steel. 1 x 8-mm mounting stud.

Code	Version	Base mm	Height mm	Slope	For pipe Ø mm	Optional studs and bolts	Studs mm
41.210.25	sloped	53x46	70	60°	25	40.142.08	8
41.110.30	sloped	66x51	80	60°	30	40.142.08	8
41.212.25	straight	Ø 44	70	90°	25	40.142.08	8
41.112.30	straight	Ø 51	80	90°	30	40.142.08	8

OSCULATI

Tapered base for pulpits

AISI 316

Made of **mirror-polished AISI316 stainless steel**, 1 x 8-mm mounting stud.

Code	Slope	Base mm	Height mm	For pipe Ø mm	Optional studs and bolts	Studs mm
41.309.25	45°	62x45	75	25	40.142.08	8
41.310.25	60°	45	70	25	40.142.08	8
41.312.25	90°	45	57	25	40.142.08	8
41.409.30	45°	65x48	75	30	40.142.08	8
41.410.30	60°	48	70	30	40.142.08	8
41.412.30	90°	48	62	30	40.142.08	8

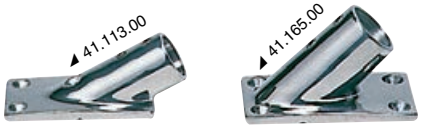
White polyethylene underplate

Code	Underplate	Outer Ø mm	Inner Ø mm	For bases	ORDER BY BOX
41.412.38	Round	50.5	46.5	41.412.30	10

Pulpit joint

AISI 316

Code	Version	Slope	For pipe Ø mm
41.118.22	bow or stern angle	110°	22
41.120.22	bow or stern angle	140°	22
41.119.22	bow or stern angle	90°	22
41.119.25	bow or stern angle	90°	25
41.121.22	three-way angle	90°	22
41.121.25	three-way angle	90°	25



Rectangular fitting for pulpits

Code	Version	Slope	Base mm	For pipe Ø mm
41.113.00	rectangular	30°	75x42	22
41.165.00	rectangular	45°	75x42	22

Round fitting for pulpits

Code	Version	Slope	For pipe Ø mm
41.112.00	round	30°	22
41.127.00	round	45°	22
41.112.01	round	30°	25
41.127.01	round	45°	25

T joint for pulpits

Code	Version	Slope	For pipe Ø mm
41.114.22	sloped	60°	22
41.114.25	sloped	60°	25
41.114.30	sloped	60°	30
41.115.22	straight	90°	22
41.115.25	straight	90°	25
41.115.30	straight	90°	30

HEAVY DUTY 90° T joint

The vertical part is 52-mm long and provides a **solid connection**. Non-threaded fastening bores.

Code	For pipe Ø mm
41.115.26	25

Hinge opening T joint for pulpits

Very easy to mount, made of **precision-cast AISI316 stainless steel**.

Code	Slope	For pipe Ø mm
41.116.01	60°	22
41.116.02	60°	25
41.116.03	90°	22
41.116.04	90°	25
41.116.05	60°	30
41.116.06	90°	30

Base

5.5° tapered base for low and sports pulpits.

Code	For pipe Ø mm
41.184.00	25

Pipe plug

Code	For pipe Ø mm
41.166.00	22
41.166.01	25

Bow angular joint

With eye

Code	For pipe Ø mm
41.116.22	22

Handrail terminal

Made of mirror-polished **stainless steel**.

Code	Height mm	For pipe Ø mm
41.711.22	38	22

Handrail central bracket

Made of **stainless steel**.

Code	Height mm	For pipe Ø mm
41.712.22	38	22

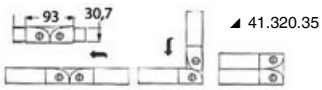
Pulpit opening/closing system

AISI 316

Made of **mirror-polished AISI316 stainless steel**.

Code	Version	For pipe mm	Opening
41.320.30	opening hinge	30x1.5	180°
41.320.31	opening hinge	30x2	180°
41.320.35	opening hinge	35x2	180°
41.324.30	closing	30x1.5	telescopic with spring
41.324.31	closing	30x2	telescopic with spring
41.324.35	closing	35x2	telescopic with spring

◢ 41.320.30/31



◢ 41.320.35

OSCULATI

◢ 41.320.30/31/35

◢ 41.324.30/31/35

Handrail bracket

AISI 316

Made of **mirror-polished AISI316 stainless steel**.
60-mm height, mounting with 8-mm studs.

Code	Version	For pipes mm
41.613.25	Terminal	25x1,2
41.614.25	Central	25x1,2

OSCULATI

Bracket

Code	Version	For pipes mm
41.117.22	16° base	22x1,2

Compact handrail bracket

Made of mirror-polished stainless steel.

Code	Version	Height mm	For pipes Ø mm
41.714.20	Right and left terminal	48	22
41.714.21	Right and left terminal	57	25
41.715.20	Central bracket	48	22
41.715.21	Central bracket	57	25

◢ 41.714.20/21

◢ 41.715.20/21

Tapered handrail bracket

Made of AISI316 stainless steel. Tapered shape, no dangerous protruding parts.

Code	Version	Height mm	For pipe Ø mm
41.663.51	Terminal	64	22
41.663.52	Central	64	22
41.663.61	Terminal	64	25
41.663.62	Central	64	25

◢ 41.663.51/61

◢ 41.663.52/62

► Chromed brass pulpit joints and bases

◢ 41.007.00

◢ 41.010.00/01

◢ 41.012.00/01

◢ 41.008.00

◢ 41.011.00

◢ 41.013.00

◢ 41.009.00/01

Pulpit joint and base

Code	Version	Slope	For pipe Ø mm
41.007.00	sloped, round base	30°	22
41.010.00	sloped, round base	60°	22
41.010.01	sloped, round base	60°	25
41.012.00	straight	90°	22
41.012.01	straight	90°	25
41.013.00	rectangular	90°	22
41.011.00	rectangular	60°	22
41.014.00*	T sloped	60°	22
41.015.00	T straight	90°	22
41.015.01	T straight	90°	25
41.009.00	elbow joint	90°	22
41.009.01	elbow joint	90°	25

* *Sold in pairs, RIGHT+LEFT boring.*

◢ 41.015.00/01

◢ 41.014.00

◢ 41.612.00

◢ 41.611.00

Shaped handrail bracket

Made of **chromed brass**. Modern and practical design.

Code	Version	Mounting	For pipe Ø mm
41.611.00	Terminal	with studs	22
41.612.00	Central	with bores for screws	22

◢ 41.040.00

◢ 41.041.00

Handrail bracket with rectangular base plate

Made of chromed brass, large section.

Code	Version	Height mm	For pipe Ø mm
41.040.00	Terminal	64	22
41.041.00	Central	64	22

Sold in pairs, RIGHT+LEFT boring.

Precision-cast solid handrail terminal

Code	Version	Material	Base Ø mm	Height mm	For pipe Ø mm	Optional studs and bolts	Studs mm
41.500.22	Terminal	AISI 316 SS	30	55	22	**40.142.08**	8
41.501.22	Central	AISI 316 SS	30	55	22	**40.142.08**	8
41.500.25	Terminal	AISI 316 SS	35	65	25	**40.142.08**	8
41.501.25	Central	AISI 316 SS	35	65	25	**40.142.08**	8
41.500.30	Terminal	chromed brass	40	80	30	**40.142.08**	8
41.501.30	Central	chromed brass	40	80	30	**40.142.08**	8

Rounded handrail terminal made from a tube

Made of mirror-polished **stainless steel**.

Code	Version	Base Ø mm	Height mm	For pipe Ø mm	Optional studs and bolts	Studs mm
41.151.22	Terminal	35	57	22	40.142.08	8
41.152.22	Central	35	57	22	40.142.08	8
41.151.25	Terminal	35	57	25	40.142.08	8
41.152.25	Central	35	57	25	40.142.08	8

Object holder

Also suitable as drawer or hatch handle, made of chromed brass.

Code	Version	⟷ Base mm
41.620.00	Terminal, chromed brass	30x30
41.621.00	Central, chromed brass	30x30
41.622.00	10-mm Ø pipe, 500-mm long, chromed brass	-

► Aluminium pulpit joints and bases

Pulpit joint

Made of anodized mirror polished aluminium, for 25/30-mm Ø pipes.

Code	Version	Slope	For pipe Ø mm	⟷ mm
41.022.00	round base	60°	25	70x50 h
41.023.00	round base	90°	25	70x50 h
41.024.00	sloped T	60°	25	70x80 h
41.025.00	straight T	90°	25	70x80 h
41.028.00	round base	60°	30	80x90 h
41.029.00	round base	90°	30	80x80 h
41.030.00	sloped T	60°	30	80x100 h
41.031.00	straight T	90°	30	80x90 h

◢ 41.022.00 ;41.028.00

◢ 41.024.00; 41.030.00

◢ 41.023.00; 41.029.00

◢ 41.025.00; 41.031.00

Handrail terminal for upper fastening

Made of **anodized aluminium. Two parts** to fix the lower part with self-tapping screws and overlap the upper part.Ideal when studs cannot be fastened from the inside.

Code	Version	Ø mm	Height mm	Optional pipe	Optional studs and bolts	Studs mm
41.608.10	Terminal	50	60	**41.610.00**	**40.142.08**	8
41.609.10	Central	50	60	**41.610.00**	**40.142.08**	8

Handrail terminal, hidden screws

Made of polished anodized **aluminium**.

Code	Version	Base Ø mm	Height mm	For pipes mm	Optional pipe	Optional studs and bolts	Studs mm
41.608.00	end bracket	50	60	40x20	**41.610.00**	**40.142.08**	8
41.609.00	central bracket	50	60	40x20	**41.610.00**	**40.142.08**	8

Oval pipe

Polished and anodized.

Code	⟷ mm	Sold in bars	For fitting into handrail model
41.610.00	40x20	2 metres	**41.608.00; 41.609.00**

► Stainless steel and aluminium pipes

Pipe

AISI 316 Made of **mirror-polished AISI316 stainless steel**.

Bar size			Ø	
2 m	3 m	6 m	inch	mm
41.616.00	**41.616.03**	**41.616.01**	-	20x1
41.613.00	**41.613.03**	**41.613.01**	-	22x1.2
41.618.00	**41.618.03**	**41.618.01**	-	25x1.2
41.619.00	**41.619.03**	**41.619.01**	-	30x1.5

Pipe

Made of **anodized aluminium**.

Bar size						Ø mm
2 m		3 m		6 m		
41.020.00		**41.020.03**		**41.020.01**		20x1
41.021.00		**41.021.03**		**41.021.01**		22x1.2
41.027.00		**41.027.03**		**41.027.01**		25x1.5
41.033.00		**41.033.03**		**41.033.01**		30x1
41.034.00	New	**41.034.03**	New	**41.034.01**	New	35x1
41.035.00	New	**41.035.03**	New	**41.035.01**	New	60x1.5
41.036.00*	New	**41.036.03***	New	**41.036.01***	New	60x1.5

* *RAL 9003 white coating.*

Pipe cap

Made of polished **chromed ABS**, to be used as terminal for pipe.

Code	Description
41.210.07	For 22-mm Ø pipes
41.210.01	For 25-mm Ø pipes

► Handrails and accessories

◢ 41.914.01/02

◢ 41.914.03

Soft PVC handle

Internal part reinforced with stiff plastic. Hidden fastening screws.

Code	Length mm	Height mm	Centre distance mm	Bore Ø mm	Colour
41.914.01	250	60	195	7	White
41.914.02	250	60	195	7	Grey RAL 7035
41.914.03	205	55	154	7	Grey RAL 7035

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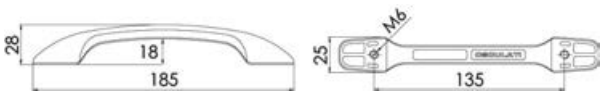
Streamlined handle

AISI 316

Made of mirror-polished AISI316 stainless steel.

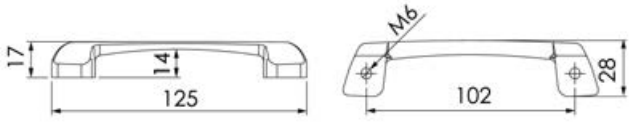
Code	Length mm	Height mm	OPTIONAL studs
41.104.00	185	29	40.142.06 (Ø 6 mm)



Sierra handle for drawers

Made of **mirror-polished AISI316 stainless steel.**

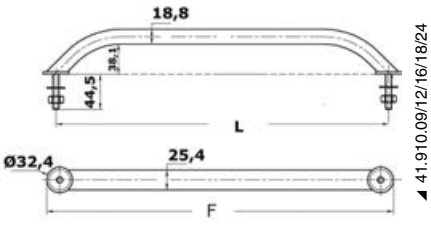
Code	Length mm	Height mm
38.120.00	125	17



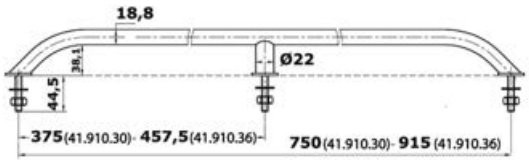
Oval pipe handrail, hidden screws

Made of mirror-polished stainless steel. 19x25-mm section, mounting with 2 x 8-mm Ø studs.

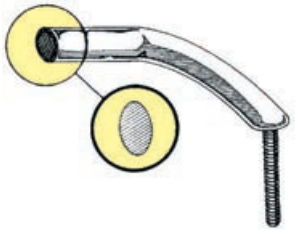
Code	Length (L) mm	F mm	Height mm	Studs
41.910.09	220	254	58	2
41.910.12	305	339	65	2
41.910.16	407	441	58	2
41.910.18	460	524	58	2
41.910.24	610	640	58	2
41.910.30	750	782	58	3
41.910.36	915	947	58	3



◢ 41.910.09/12/16/18/24



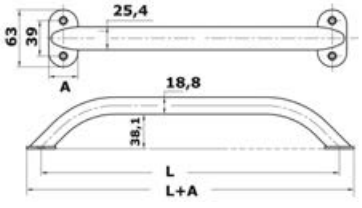
◢ 41.910.30/36



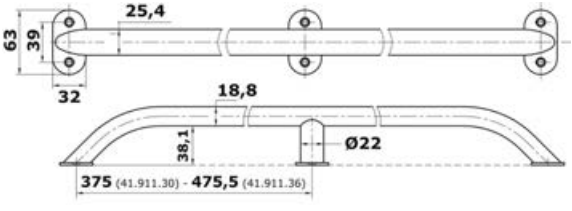
Oval pipe handrail with screws

Made of **mirror-polished stainless steel**. 19x25-mm section, **screw external mounting**.

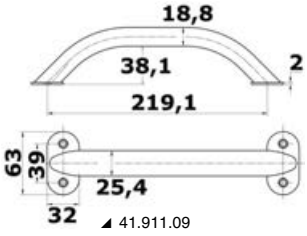
Code	Length (L) mm	L+A mm	Height mm	Fixing plates
41.911.09	219	251	56	2
41.911.12	305	337	55	2
41.911.18	450	482	65	2
41.911.24	600	632	65	2
41.911.30	750	782	65	3
41.911.36	915	947	65	3



◢ 41.911.12/18/24



◢ 41.911.30/36



◢ 41.911.09

Handle fitted with plastic base

AISI 316 Made of **precision-cast mirror-polished AISI316 stainless steel**.

Code	Length mm	Height mm	Mounting	Optional studs
41.105.00	170	40	2 x 8 Ø mm studs	40.142.08
41.105.01	170	40	2 screws	-
41.106.00	300	50	2 x 8 Ø mm studs	40.142.08
41.106.01	300	50	2 screws	-

Handrail

AISI 316 Made of **mirror-polished AISI316 stainless steel**, **elliptical section**.

Code	Length mm	Section mm	Central upright	Height mm
41.907.12	305	13x33	-	59
41.907.18	457	13x33	-	59
41.907.24	610	13x33	-	59
41.908.12	305	20x40	-	59
41.908.18	457	20x40	-	59
41.908.24	610	20x40	-	59
41.908.30	762	20x40	-	59
41.908.36	915	20x40	-	59
41.908.48	1220	20x40	1	59
41.908.60	1525	20x40	1	59
41.908.72	1829	20x40	1	59
41.908.82	2080	20x40	1	59

External screw mounting kit for handrail

Code	Description
41.907.00	Kit: 2 plates + 2 screws for 41.907.12; 41.907.18; 41.907.24
41.908.00	Kit: 2 plates + 2 screws for 41.908.18; 41.908.24; 41.908.30; 41.908.36
41.908.01	Kit: 3 plates + 3 screws for 41.908.48; 41.908.60; 41.908.72

Deluxe handrail

Made of 30-mm Ø mirror-polished AISI316 stainless steel covered with synthetic leather.
Stud mounting.

Code	A mm	B mm	C mm	D mm
41.912.15	450	310	270	M8
41.912.25	750	610	570	M10

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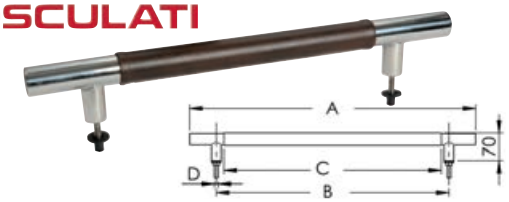


► Stainless steel pulpits

Fitted with 22-mm diameter tube, mirror-polished finish and mounting studs.

Bow pulpit for sails or pilot boats up to 7 metres

Adjustable +/- 15 cm.

Code	Width cm	Depth cm	Height cm
41.670.00	80	90	45

Bow pulpit for sails up to 9 metres

Made of AISI316 stainless steel. Adjustable +/- 15 cm.
Fitted with central reinforcement tube.

Code	Width cm	Depth cm	Height cm
41.671.00	78	110	60

Stern pulpit for boats up to 7 metres

2-piece pulpit for sailing boats up to 7 metres.

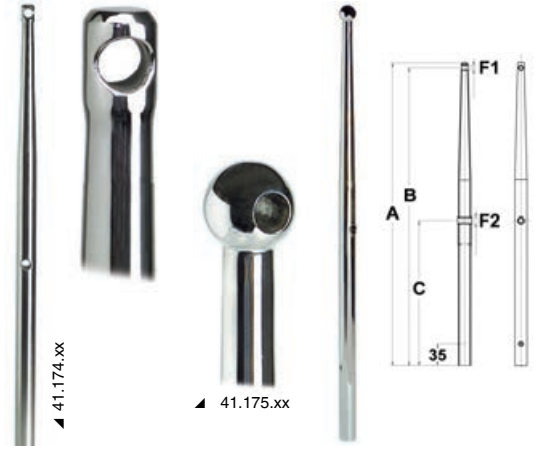
Code	Width cm	Side cm	Opening angle	Height cm
41.670.01	(rear view) 35	40	100°	45

Stern pulpit up to 9 metres

Made of AISI316 stainless steel. 2-piece pulpit for sailing boats up to 9 metres.
Fitted with central reinforcing pipe.

Code	Width cm	Side cm	Opening angle	Height cm
41.671.01	(rear view) 40	43	100°	60

► Stanchions and bases

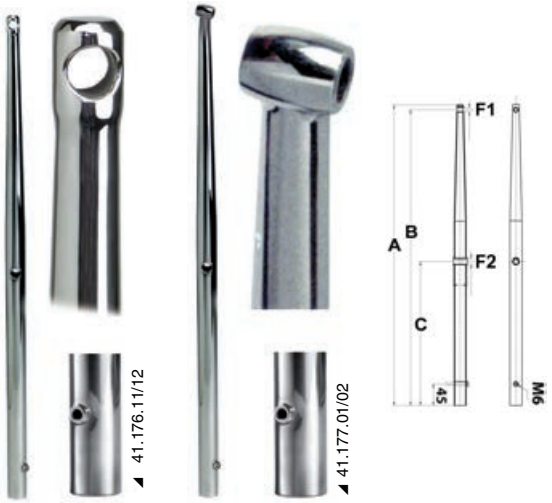


Stanchion for female bases

AISI 316

Made of mirror-polished **AISI316 stainless steel**, 25-mm Ø, **stainless steel** head, central hole with **stainless steel** pipe.

Code	Ø mm	A mm	B mm	C mm	F1 Ø mm	F2 Ø mm
41.174.39	25	465	455	197	10.4	10.8
41.174.40	25	625	614	315	10.2	10.2
41.174.41	25	715	705	350	10.2	10.2
41.175.01	25	465	454	200	10.2	10.2
41.175.02	25	620	610	310	10.4	10
41.175.03	25	725	715	362	10.4	10.4



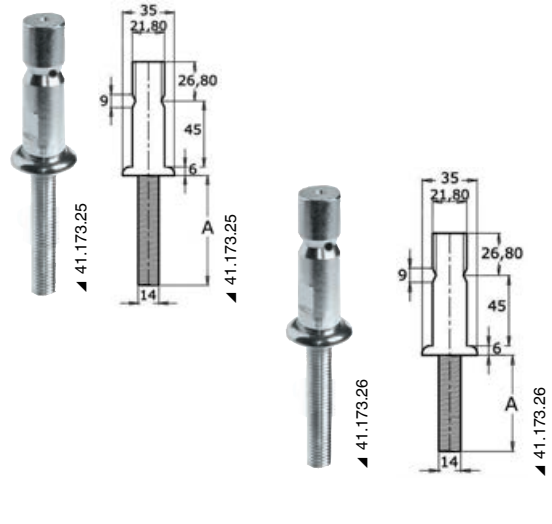
Stanchion for male bases

AISI 316

Made of **mirror-polished AISI316 stainless steel.**
For mounting into the base with a screw that lets the stanchion rotate on the base for alignment with the stringer.

Code	Ø mm	A mm	B mm	C mm	F1 Ø mm	F2 Ø mm	Recommended base
41.176.11	25x1.5	625	615	300	10	10	**41.173.25; 41.173.60**
41.176.12*	25x1.5	625	615	240	10	10	**41.173.25; 41.173.60**
41.177.01	30x2	625	615	310	11.7	11.7	**41.173.30**
41.177.02	30x2	750	740	440	11.7	11.7	**41.173.30**

* **41.176.12** *ORC-complying model*

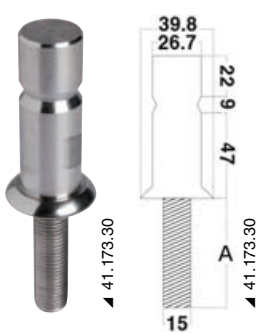


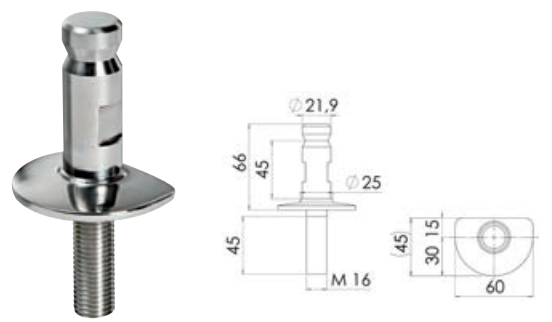
Stanchion base, compact version

AISI 316

Made of **polished AISI316 stainless steel,** for mounting **inside** the stanchion.

Code	For stanchions mm	A mm	Version	Recommended for
41.173.25	25x1.5	75	Nut mounting	**41.176.11**
41.173.26	25x1.5	45	Nut mounting	**41.176.11**
41.173.30	30x2	60	Nut mounting	**41.177.01; 41.177.02**





Stanchion oval base

AISI 316

For mounting inside the stanchion.

Code	For stanchions mm	Recommended for
41.173.60	25x1.5	41.176.11/12

AISI316 stainless steel cast base for stanchion

AISI 316

25-mm Ø, made of **precision-cast mirror-polished AISI316 stainless steel.**

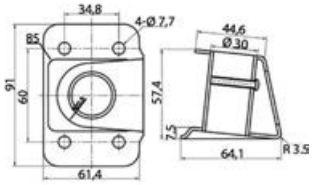
Code	Version	Base mm	Height mm
62.510.04	7° sloped	90x56	60
62.510.05	straight	90x56	60

Alloy base for stanchion

Made of **anodized aluminium**.

Code	Version
41.173.10	7° sloped, depends on the surface level
41.173.11	90° perpendicular

Stanchion base with reinforcing plate



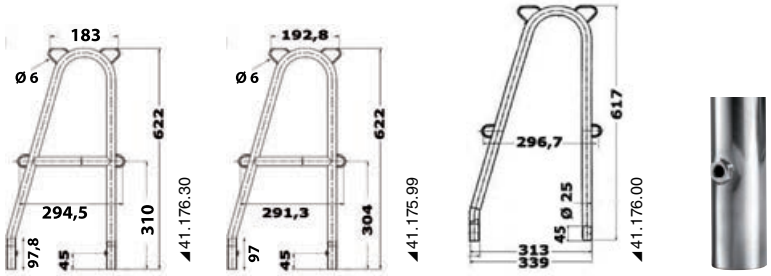
Made of **polished stainless steel**. 4° deck angle, 4-screw mounting, very sturdy and practical.

Code	For pipe Ø mm
41.173.20	25

Twin stanchion for internal bases

AISI 316

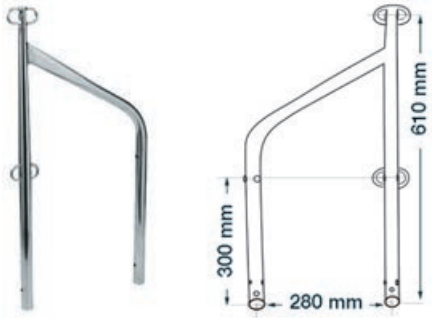
Code	Ø mm	Height mm	Version	Recommended base plate
41.176.00	25x1.5	617	Without stud	41.173.25; 41.173.60
41.175.99	25x1.5	622	With stud	41.173.25; 41.173.60
41.176.30	30x2	622	With stud	41.173.30



Twin stanchion for external bases

AISI 316

Code	Ø mm	height mm
41.176.01	25x1.5	610



Sleeve

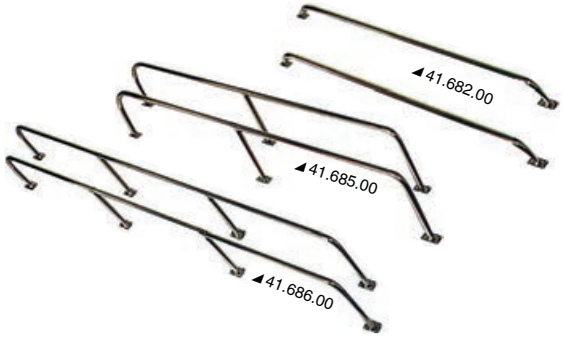
AISI 316

Made of **AISI316 stainless steel**, for mounting on stanchions.
Strong point for several purposes, 8-mm Ø hole.

Code	For pipes Ø mm
41.861.21	22
41.861.22	25

Stainless steel side handrail with inclined uprights

With stainless steel bases and 22-mm Ø polished pipe.



Code	Version	Length cm	Height cm
41.682.00	-	100	11
41.685.00	with central upright	140	21
41.686.00	with double central upright	175	21

Sold in pairs.

► Fishing rod holders and accessories

Fishing rod holder for bulkhead mounting, fixed version

Made of white plastic, 6-screw mounting.

Code	Inside Ø mm	Length mm
41.168.13	41	233

Fishing rod holder for bulkhead mounting, with U bolts.

Made of **white plastic**. Mounting with **stainless steel** clamps.

Code	Inside Ø mm	Length mm
41.168.09	41	229

High-strength nylon fishing rod holder with base

360° horizontal and 90° vertical swivelling with snap coupling system into the base.
Rod lock by means of a rotating ring nut.

Code	Rod max Ø mm
41.168.90	40
41.168.91	50

41.168.95 *OPTIONAL Additional flat base.*
41.168.96 *OPTIONAL 22/32-mm base for pulpit tube.*

Removable fishing rod holder for bulkhead mounting

Mirror-polished stainless steel bayonet rod holder fitted with rubber bushing.

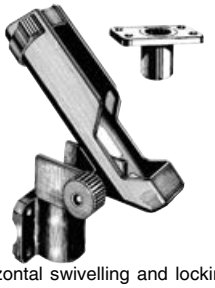
Code	Inside Ø mm	Length mm
41.212.12	45	250

Stainless steel fishing rod holder for bulkhead mounting, fixed version

Made of **stainless steel**, 2-clamp mounting, internal wear-resistant **PVC** bushing.

Code	Ø mm	Length mm
41.168.12	41	229

Nylon adjustable fishing rod holder

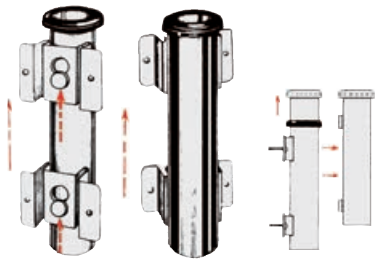


Made of **nylon**. 360° horizontal swivelling and locking, 140° vertical adjustment. Slide the fishing rod into the holder and the reel will get stuck into its dedicated recess. Upper rod-locking ring. **Bayonet** mounting system of the holder, which can be removed from the bulkhead base.

Code	Inside Ø mm	Length mm	OPTIONAL base
41.169.00	38	200	**41.169.01***

* *Flush-mounting base for deck instead of bulkhead-mounting of fishing rod holder*

Removable fishing rod holder for bulkhead mounting



Made of **stainless steel** with protective rubber.
Universal size, suitable for all deep-sea fishing rods. Fitted with rod-locking pin.
Snap-base model that can be removed when not in use.

Code	Inside Ø mm	Length mm
41.168.10	42	250

Fishing rod holder for bulkhead mounting, hidden screws

AISI 316

Bulkhead mounting with stabilizing plates.

Code	Inside Ø mm	Length mm	ORDER BY BOX
41.170.55	37	155	2

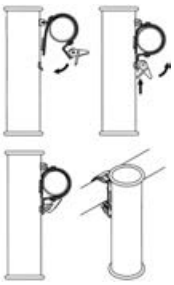
Fishing rod holder for bulkhead mounting with pull-out pin

Made of polished stainless steel with technopolymer-tipped end.
It comes with fastening clamps and pull-out plug to fasten the rod.

Code	Inner Ø mm	Length mm
41.168.14	40	270

Pulpit rod holder

AISI 316



Snap mounting on 22/30-mm Ø pipes.

Code	Inside Ø mm	Length mm
41.170.57	37	155

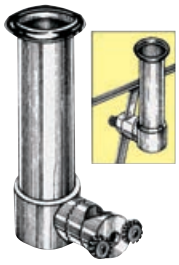
Adjustable fishing rod holder

Clamp mounting on the transom. Made of **chromed brass**, adjustable in any direction, fitted with rod locking pin and internal rubber bushinMounting on 22- to 48-mm thick transoms.

Code	Inside Ø mm
41.168.05	50

Pulpit or handrail rod holder

AISI 316



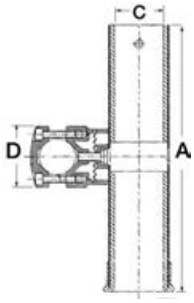
Adjustable in **any direction**. It can be fixed in a matter of seconds. Fitted with rubber bushing and rod locking pin. **AISI316 stainless steel base and pipe**.

Code	For pipes Ø mm
41.167.00	20/28*
41.167.30	35/40

* **41.167.01** *SS knob to adapt rod holder 41.167.00 to 30-mm pipes.*

Fishing rod holder for pipe mounting

AISI 316

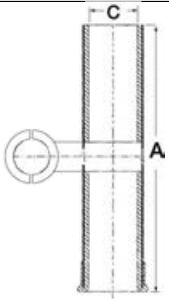


360° horizontal and vertical swivelling. An adjusting screw passes through the rod holder pipe therefore there is **no need to unscrew the clamp**.
Made of **precision-cast polished AISI316 stainless steel** + santoprene bushing.

Code	For pipe Ø mm	A mm	C mm	D mm
41.167.60	22/25	225	42	47.6
41.167.61	30/35	225	42	47.6

ULTRA fishing rod holder for pipe mounting

AISI 316



High-quality product with tapered pipe and inside rod protection made of santoprene. 360° swivelling clamp (horizontal/vertical). Mirror-polished AISI316 stainless steel.

Code	For pipe Ø mm	Length (A) mm	Inner Ø (C) mm
41.167.57	22/25.4	235	44.4
41.167.58	25/31.8	235	44.4

Fishing od holder for pipe mounting

360° horizontal and vertical swivelling. Inside PVC bushing for rod protection. Mirror-polished AISI316 stainless steel. Dead end with water drain and rounded edges.

Code	For pipe Ø mm	Inside Ø mm	Length mm
41.167.56	22/25/28	41.5	225

Fishing rod holder with clamp

100% mirror-polished AISI316 stainless steel with plastic protection bushing for rod protection.

Code	For pipe Ø mm	Height mm	Bore Ø mm
41.167.95	25/30	310	39

Adjustable fishing rod holder

100% mirror-polished AISI316 stainless steel with plastic bushing for rod protection. Adjustable from 90° to 15°.

Code	Base mm	Height mm	Bore Ø mm
41.167.90	82x72	325	39

Chromed brass adjustable fishing rod holder

Made of **chromed brass**, with bushing for rod protection.

Code	Base mm	Height mm	Bore Ø mm
41.170.00	99x65	330	33
41.170.01	99x65	350	40

Stainless steel adjustable fishing rod holder

AISI 316

OSCULATI

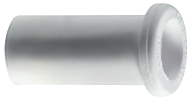
100% **AISI316 stainless steel base and pipe.**
Fitted with **rubber** bushing for rod protection. Suitable for all fishing rods available on the market. Special plastic wing nut for easy screwing.
Fitted with large and sturdy base with internal rod locking pin.

Code	Base mm	Height mm	Bore Ø mm
41.168.00	82x72	350	46

Spare base for fishing rod holder

41.168.98 Additional spare base for fishing rod holder 41.168.00.
Also suitable for 41.167.90, 41.170.00, 41.170.01.

Spare bushing for fishing rod holder



For fishing rod holder 41.167.00/30, 41.168.00/05/10.

Code	Ø	
	external mm	internal mm
41.168.99	47	42

Click removable rod holder

Made of chromed brass. Adjustable angle both in vertical and horizontal position.
Fitted with gasket for rod holder.

Code	Base mm	Height mm	Hole Ø mm
41.178.00	93x63	250	40

Recess-fit fishing rod holder, simple version

Made of **polycarbonate**, low-cost model.

Code	Ø mm	Depth mm
41.168.02	40	240

Recess-fit fishing rod holder with watertight cap

Made of **white polypropylene**, fitted with rod locking pin on the bottom, 83x105 mm flange.

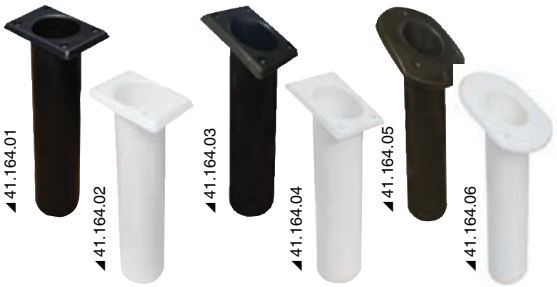
Code	Ø mm	Depth mm
41.168.04	42	230

Recess-fit fishing rod holder with stainless steel flange, 60° slope

OSCULATI

Made of **white nylon**, fitted with **mirror-polished AISI316 stainless steel** finish front face.
With watertight cap.

Code	Ø mm	Depth mm
41.211.40	42	240



UV-stabilized polyethylene fishing rod holder

Rounded edges and spherical bottom for better housing of the rod.

Code	Slope	Inside Ø mm	Fastening plate		Length mm	Colour
			Type	mm		
41.164.01	90°	43	Square	87x58	230	Black
41.164.02	90°	43	Square	87x58	230	White
41.164.03	30°	43	Square	87x63	240	Black
41.164.04	30°	43	Square	87x63	240	White
41.164.05	30°	43	Oval	115x90	240	Black
41.164.06	30°	43	Oval	115x90	240	White

Chromed-brass flush-mount fishing rod holder

Made of **chromed brass** with rubber bushing for rod protection.
Universal size, fitted with rod locking pin.

Code	Ø mm	Cap
41.168.01	42	41.168.03 INCLUDED

Recess-fit fishing rod holder with trapezoidal flange

Made of mirror-polished **stainless steel**, fitted with PVC bushing for rod protection.

Code	Slope	Inside Ø mm	Length mm	Cap
41.211.70	60°	42	228	Yes
41.211.71	75°	42	228	Yes
41.211.72	90°	42	228	Yes

Recess-fit fishing rod holder with watertight cap

AISI 316

Made of precision-cast mirror-polished AISI316 stainless steel.
New oval flange, great design. White santoprene watertight cap included.

Code	Direction	Length mm	Inside Ø mm	OPTIONAL PVC water drain	Flange
41.211.50	Straight at 90°	230	41	**41.211.58**	Oval
41.211.55	Sloped at 75°	230	41	**41.211.58**	Oval
41.211.56	Sloped at 60°	230	41	**41.211.58**	Oval
41.211.60	Sloped at 60°	250	41	**41.211.58**	Trapezoidal

OSCULATI

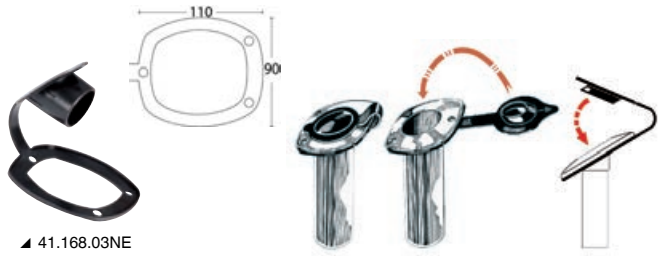
Vertical flush-mount fishing rod holder - HD version

OSCULATI

Made of **stainless steel**. Fitted with **soft PVC** internal bushing.
Watertight cap included.

Code	Inside Ø mm
41.168.11	42

Watertight cap



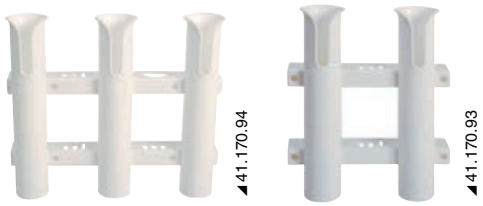
Made of soft **PVC**, suitable for flush-mount fishing rod holders.
For item 41.168.01 and all other similar rod holders.

Code	Colour
41.168.03BI	White
41.168.03NE	Black

Base with LED for fishing rod holder

White technopolymer base with LED crown.
Universal for fishing rod holder 41.211.70/71/72 and 41.168.11.

Code	V	A	⟷ mm
41.211.75	12	0.08	127.6x52.2



Plastic fishing rod holder for bulkhead mounting

Lightweight version.

Code	No of rods	Hole Ø mm	⟷ mm
41.170.93	2	44	270x220
41.170.94	3	44	270x315

Plastic fishing rod holder for bulkhead mounting

Fitted with bracket with housing for pliers and knives, 44-mm diameter hole.

Code	Version	Length mm	Colour
41.171.00	3 rods	300	white
41.172.00	1 rod	158	white

Stainless steel fishing rod holder

AISI 316

Bulkhed mounting. Rod locking pin. Upper and lower rounded edges. Mirror-polished.

Code	Version	Width mm	Height mm
41.167.80	For 3 rods	298	220
41.167.81	For 4 rods	420	220

Steel fishing rod holder for bulkhead mounting

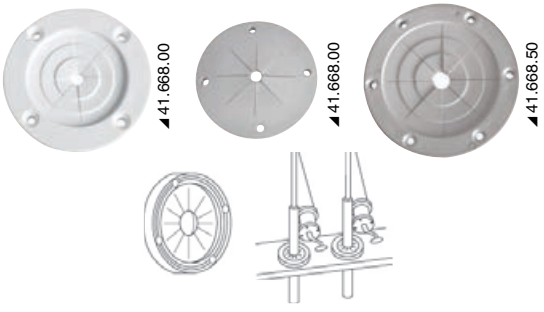
100% mirror-polished stainless steel with plastic bushings for rod protection.

Code	Version	⟷ mm
41.170.52	2 rods	280x235 (H)
41.170.53	3 rods	343x235 (H)

Fishing rod holder for bulkhead mounting

Made of fast white polyethylene, fitted with mounting bracket. Sold in pairs.

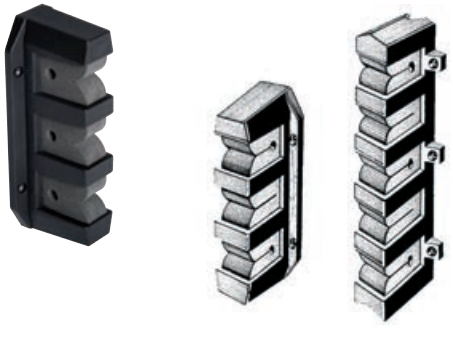
Code	Version	Length mm	Height mm	Width mm
41.128.02	2 rods	225	80	65
41.128.04	4 rods	390	80	65



Fishing rod rubber diaphragm

Elastic movable fins, for bulkhead mounting. Mounted in pairs, they protect the fishing rods. White colour, they can also be used as fairlead rings.

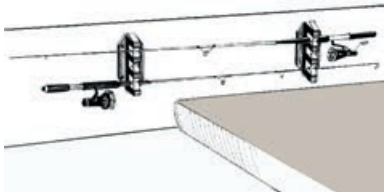
Code	Inside Ø mm	External Ø mm
41.668.00	10/50	70
41.668.50	15/75	100



Fishing rod bracket

Horizontal or vertical mounting, **black polypropylene** body, closed-cell **soft neoprene** inside. Sold in pairs.

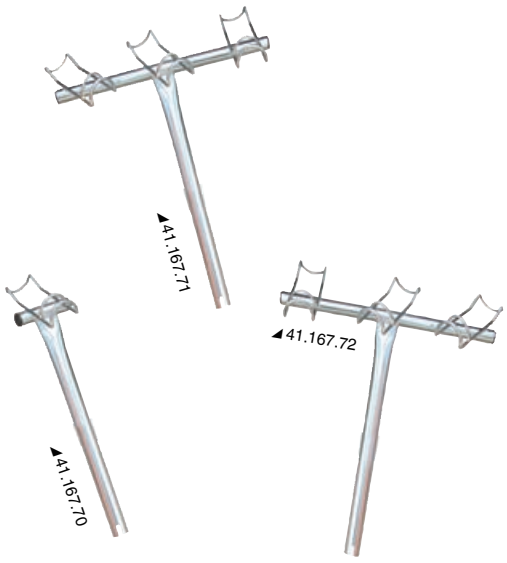
Code	Version	Base mm	Protrusion mm
41.127.50	3 rods	198x62	71
41.127.53	5 rods	285x54	57



Stainless steel fishing rod holder

AISI 316 To be fitted into the standard sloped rod holders. Mirror-polished.

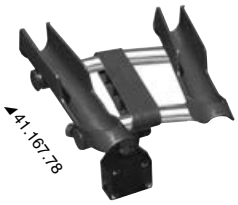
Code	Version
41.167.70	1 rod
41.167.71	3 rods (right)
41.167.72	3 rods (left)
41.167.73	5 rods



QUICKLIFT 2-in-1 and 3-in-1 fishing rod holder

Made of anodized aluminium + technopolymer/fibreglass. Adjustable angle.

Code	Description	Inside Ø mm	Version
41.167.77	To be fitted into flush-mount rod holders	38	2 rods
41.167.87	To be fitted into flush-mount rod holders	38	3 rods (right)
41.167.88	To be fitted into flush-mount rod holders	38	3 rods (left)
41.167.78	For 25-mm Ø pulpit pipes	38	2 rods



Raised tubular fishing rod holder

Polished stainless steel. 360° locking system for adjustment in several positions.
For standard sloped rod holders.

Code	Description	Inside Ø mm
41.181.00	Tall swivelling rod holder	32
41.182.00	Tall swivelling rod holder	38

Fish Catcher

Tool to catch fish. Built-in weighing device (max 15 kg) and measuring scale (max 700 mm).
Made of AISI304 stainless steel with EVA grip.

Code	Length mm
41.168.40	242

Tackle and bait tray

Made of polyethylene with adjustable aluminium support and conical bushing.

Code	Version	⟷ mm
41.168.07	For flush-mount rod holders	460x375
41.168.25	For 25-mm Ø pulpit pipes	460x375
41.168.17*	For flush-mount rod holders	700x420
41.168.21*	For 25-mm Ø pulpit pipes	700x420
41.168.18**	For flush-mount rod holders	850x460
41.168.19	For 25-mm Ø pulpit pipes	850x460

* *285- to 580-mm adjustable bracket*

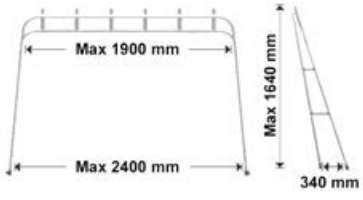
** *570-mm mounting centre distance.*

Foldable fishing rod holder rack

Made of anodized aluminium with 32-mm Ø pipes. Fitted with 6 rod holders and all mounting accessories. When not in use, the rack can be folded onto the stringer.

Code	Max width mm		Max height mm
	at the bottom	at the top	
41.690.01	2400*	1900*	1640*

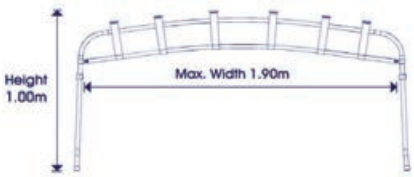
* *Pipes can be shortened to the required length*



Fishing rod holder rack for awnings

Designed to be fitted to any awnings with 25-mm Ø pipes and a maximum width up to 1.9 metres (the rack can be adjusted to fit narrower awnings).
Anodized aluminium construction, 6 fishing rod holders.

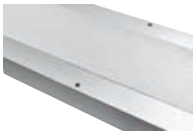
Code	Maximum awning width m	Height m
41.690.03	1.90	1



► Gangways and accessories

Alloy lightweight gangway

OSCULATI

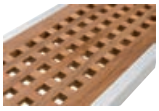


Made of **anodized aluminium** fitted with grating made of white anti-skid material, supplied with two **stainless steel** stanchions, wheels, **stainless steel** pivot pin and stringer bushing.

Code	Version	Length m	Width cm	kg
42.658.00	Fixed	2	33	10

Gangway with grating

OSCULATI



Made of **anodized aluminium**, fitted with genuine Siam **real teak grating**; supplied with two **stainless steel** stanchions, rubber wheels, **stainless steel** pivot pin and flush-mount bushing.

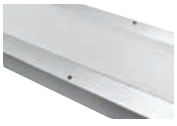
Code	Version	Length m	Width cm	kg
42.657.00	Fixed	2.1	34	13

Foldable gangway

OSCULATI

Made of **anodized aluminium**, fitted with grating coated with white foldable antiskid material; foldable version, the two parts can be separated with two snap-in **stainless steel** pins.

Code	Version	Length m	Width cm	kg
42.656.00	Folding	2	33	12.6

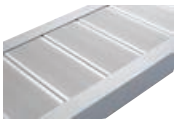


Aluminium gangways with oversized stringers

OSCULATI

High-quality product, fitted with aluminium grating coated with antiskid stringers; it includes stanchions with handrail rope.

Code	Version	Length m	Width cm	Stub Ø mm	kg
42.659.00	fixed	2.1	36	25	14
42.660.00	foldable	2.1	36	25	16
42.660.01	foldable	2.6	36	25	18
42.660.02	foldable	3.1	36	25	22



▲42.659.00

▲42.660.00/01/02

Foldable alloy gangway with inserts

Made of **white lacquered aluminium**, fitted with **mirror polished AISI 316 stainless steel** accessories and **aluminium** grating with antiskid **Iroko** inserts; **stainless steel** stub.

Code	Version	Length m	Width cm	Bush Ø mm	kg	OPTIONAL stanchion kit
42.662.01	Foldable	2.1	36	25	16	**42.662.11**
42.662.02	Foldable	2.6	36	25	18	**42.662.12**
42.662.03	Foldable	3.1	36	25	21	**42.662.13**

Foldable gangway with grating

Made of anodized aluminium, foldable in two pieces, fitted with genuine Siam **real teak grating**; supplied with two **stainless steel** stanchions, rubber wheels, **stainless steel** pivot pin and flush-mount bushing. Bicchiere Ø 25mm.

Code	Version	Length m	Width cm	kg
42.667.20	Foldable	2.1	36	15

Extra aluminium gangway

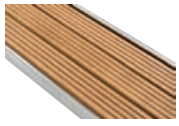
Made of **anodized aluminium**, fitted with high-quality genuine Siam teak grating; It includes stanchions with handrail rope. Mounting socket Ø 25mm.

Code	Version	Length m	Width cm	kg
42.680.00	Foldable	2.1	36	18
42.680.01	Foldable	2.6	36	20
42.680.02	Foldable	3.1	36	24

Mirror polished stainless steel foldable gangways

Frame made of **round pipe** for extra strength, **precision-cast AISI 316 stainless steel** hinges and head, fitted with Iroko granting.

Code	Version	Length m	Width cm	kg
42.643.01	Foldable	1.6	28	11
42.643.02	Foldable	2.2	28	13.5



Stainless steel gangway/ladder

Fitted with wooden grating/steps; mirror polished **stainless steel** structure.

Code	Version	Length m	Width cm	kg
42.647.00	with plane transformable in steps	1.5	35	20

Polybridge II extra-lightweight folding gangplank made of composite material

FPT (technical polyurethane) construction.
Anodized aluminium hinges. Anti-slip floor safe also in case of wet surface.
Wheels with stainless steel case to lift the gangplank. Double pivoting lock.
It can be mounted with a single pin to let the gangplank swing, or with two pins for mere tilting.

Code	Length m	Width cm	Length when folded m	Thickness when folded cm	Safety capacity kg	kg	OPTIONAL fastening bushing
42.663.00	2.2	34	1.1	14	140	8	**42.659.10; 42.659.25; 42.660.25**

CARBONBRIDGE folding carbon gangway

High-Tech monocoque body made of carbon fibres previously impregnated with epoxy resins.
High-resistance aluminium hinges, machined from solid and thick anodized in black colour.
Aluminium pivoting pin. Antiskid walking surface.

Code	Length m	Width cm	Safety capacity kg	kg	OPTIONAL fastening bushing
42.665.00	2.2	35	150	6.5	**42.659.10; 42.659.25; 42.660.25; 42.644.00**

Replacement bushing for gangways

Made of nylon.

Code	Flange Ø mm	Hole Ø mm
42.659.10	80	25

Bushing for gangway swivel AISI 316

Made of **AISI 316 stainless steel**, fitted with lower water drain and cap.

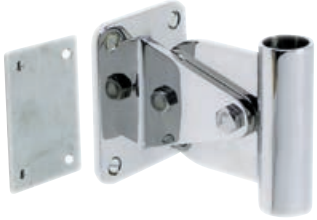
Code	Flange Ø mm	Hole Ø mm
42.659.25	80	25

Adjustable bushing (+-30°)

AISI 316

Suitable for providing **wall supports** to the gangways; made of **mirror polished AISI 316 stainless steel**.

Code	Mounting base mm	Suitable for gangway shaft	Counter plate
42.660.25	100x80	25 mm	INCLUDED



Side bushing for gangway stanchions

Made of **chromed brass**.

Code	Ø hole mm	⟷ mm
42.644.00	25	60x68x33

Balance gear

Made of polished **stainless steel**, suited for supporting gangways; supplied with 3 shackles on the 3 corners for fitting into the stern stay or into the halyard and into 2 gangway support wires.

Code	Width cm
42.770.00	50

► Telescopic servo-assisted gangways/davits

◢ Gangway electronic control unit

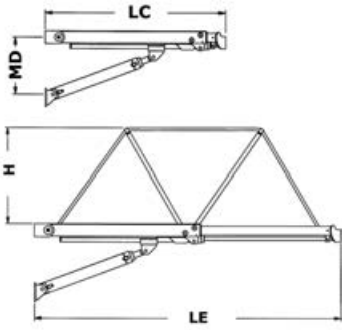
BRIDGE telescopic hydraulic gangways with mirror-polished AISI 316 stainless steel structure

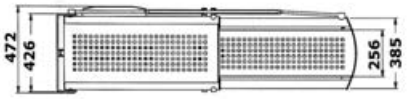
Automatically foldable stanchions to be mounted on both sides of the gangway.
Real TEAK BORMA grating.
Electronic control unit with simple "PLUG & PLAY" wiring.
Possibility to modify the gangway fulcrum position for an optimal positioning of the lifting piston.
The 12- or 24-volt gangway (to be specified) is equipped with:
- Hydraulic control unit with electrovalve
- High-pressure hydraulic piping with AISI 316 S.S. fittings
- Electronic control unit
- Built-in control panel
- Radio remote control
- Stanchions
- Stern plate
- Instructions for installation and use.

Version	LE mm	LC mm	MD minimum	H mm	Lifting capacity kg	kg	12 V	24 V
Bridge 20	2000	1200	300	800	200	60	**42.620.01**	**42.620.51**
Bridge 23	2300	1360	300	800	200	64	**42.620.03**	**42.620.53**
Bridge 27	2700	1575	300	800	200	71	**42.620.05**	**42.620.55**
Bridge 30	3000	1735	320	800	150	75	**42.620.07**	**42.620.57**

◢ Built-in control panel

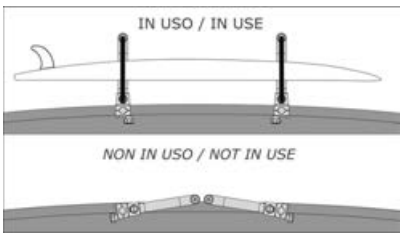
◢ Radio remote control





► SUP board holders

OSCULATI



SUP board or gangplank holder kit made of stainless steel

This kit fastens the SUP board or the gangplank out of board.
To be mounted to the railing by means of 360° adjustable clamps.
The quick release knob allows for each arm to be rotated immediately when not in use or to adjust to a smaller angle in case of narrower SUP boards or gangplanks.
Each arm is fitted with an HD foam PVC chafe guard as well as adjustable and removable straps.

Standard version: for 22- to 30-mm diameter tubes with plastic accessories.
Deluxe version: for 20- to 28-mm diameter tubes with AISI316 stainless steel accessories.

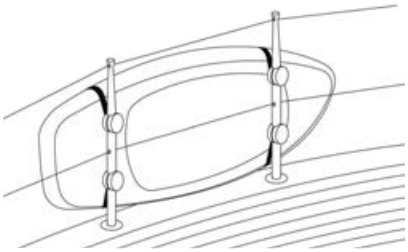
Code	Version	⟷ dimensions mm	For tube Ø mm
42.365.00	Delux	230 x 115	20/28
42.365.10 New	Standard	230 x 115	22/30

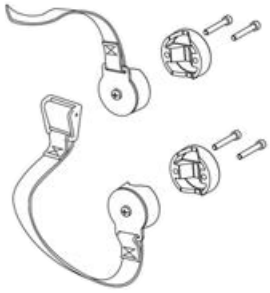
New Strap kit for SUP board or gangplank

OSCULATI

Compact yet extremely versatile product.
It is used to fasten the SUP board or the gangplank to the boat stanchions.
The system is fastened to the stanchion tubes by means of four clamps for a diameter ranging from 20 to 28 mm; two 2-m long nylon straps tightly tie the onboard accessories.

Code	⟷ straps mm	For tube Ø mm
42.366.00	2000x30	20/28



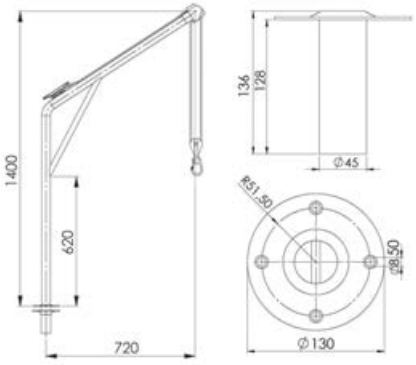


► Fixed and telescopic davits

Stainless steel davit

Ideal to hoist tenders (in pairs) or outboard engines.
Fitted with recess-fir stainless steel bushing, return pulley and nylon line.

Code	Working loads kg	Tube Ø mm	ORDER BY BOX
42.352.01	120 per pair	40	2



Swivelling davit

Made with mirror polished **stainless steel** tube.
This swivelling davit is easily removed from the deck because it's mounted on interlocking **stainless steel** bushings, similar to those of a ski hauling rod.
The part to be mounted on the deck is supplied with a long length and may be cut to fit the desired size. Overhanging parts are recommended not to exceed 40/45 cm beyond the deck.
Supplied with 2 **stainless steel** blocks, 2 **stainless steel** shackles, 2 **stainless steel** snap hooks, nylon line, nylon cleats, base and deck bushings.

Code	Pipe Ø mm	Capacity kg	Straddle cm	Part to fit in deck cm	Version	External bushing Ø mm	ORDER BY BOX
42.353.00	40	125 per pair	75	150 (cut to measure)	standard	65	2

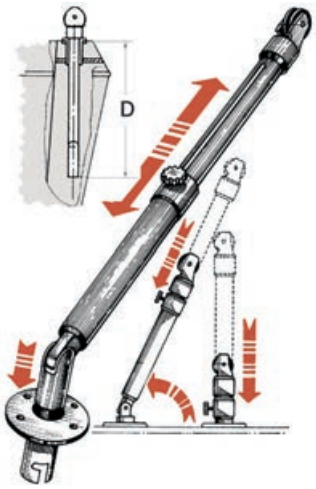
◢ Bushings

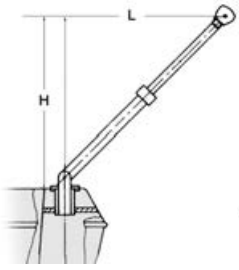
Telescopic davits

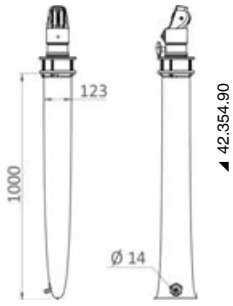
OSCULATI

Made of **anodized aluminium**, universal size. Fitted with double sheave and becket for both gangway and dinghy.
Two operating positions: in line with the boat (dinghy holding) or inclined at 20° on the inner part (gangway holding).
The telescopic part B) can be adjusted in various positions, providing a perfect length adjustment for different types of dinghies.
OPTION 42.354.90: PVC **drain bag** with hose connector to be used in case of water seepage. Easy to install on the davit base by means of a metal clamp.

Code	Load capacity kg	Mounting base Ø mm	Recess hole Ø mm	Telescopic tube (A/B) Ø mm	⟷ mm			Tube Ø mm	ORDER BY BOX	Drain bag OPTIONAL
					Height (H)	Reach (L)	Inside (D)			
42.354.00	180 per pair	160	112	73/80	1.020	1.100	912 in rest position	73 + 80	2	**42.354.90** New







Small telescopic retractable davit

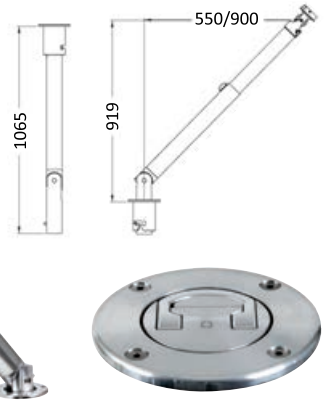
OSCULATI

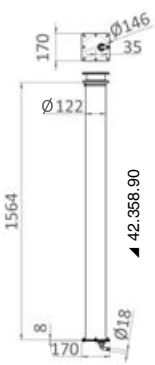
FLUSH

Dual universal retractable davit kit made of anodized aluminium. When in retracted position, it is hidden under the walking surface and leave the deck clear.
Fitted with double sheave and becket for both gangway and dinghy.
Two operating positions: in line with the boat (dinghy holding) or inclined at 20° on the inner part (gangway holding).
The telescopic tube has a handle that can be rested on its head and adjusts the pole at different lengths depending on the needs and on the dinghy type.
OPTION 42.358.90: PVC drain bag with hose connector to be used in case of water seepage. Easy to install on the davit base by means of a metal clamp.
Anodized aluminium rest base and anti-shock seal + drainage system.

Code	Capacity kg	Fastening base Ø mm	Recess bore Ø mm	Telescopic tubes Ø (inside/outside) mm	⟷ mm			ORDER BY BOX	Drain bag OPTIONAL
					height (H)	Reach (L)	inside (D)		
42.358.00	180 per pair	160	112	73/80	990	550/900	1115	2	**42.358.90** New

49.560.00 *OPTIONAL system for installation on the gangplank*





OSCULATI

Foldable and swivelling davits

Made of **aluminium**, designed to lower the outboard motor on the tender.
Mounting and removal in a matter of seconds, slip-off system from the brackets.
Coated in white epoxy resin, fitted with hoist and stainless steel blocks as well as stainless steel snap hook, universal size fits any boat. It comes in a bag.

Code	Height cm	Projection cm	Working load max kg	Closed length	
				Ø mm	⟷ cm
42.360.00	135	50	45	38	75

47.391.00 *Matching harness*

► Spare parts for VOLVO engines

Transmission bellows for Volvo engines

Code	Original reference	Notes
43.950.04	87526/876294	Model with edge
43.932.60	3854127/384148	-
43.950.07	3860384/3858139	DPG/DPX
43.950.09	3594509	DPR/DPH (D4/D6)

All VOLVO legs 100 B/S excluded.

Transmission bellows and coupling sleeve for Volvo

Code	Original reference	Product	Foot	Notes
43.950.02	876631-3	Transmission bellows Ø83x160 mm	200/290/DPX/ DP-5/SX	Without flap, interchangeable with 43.950.05
43.950.03	876633-9	Transmission bellows Ø80x150 mm	280/280PT/280T	-
43.950.05	876631-3/875848-4	Transmission bellows Ø83x160 mm	200-290-DPX-SP	With flap
43.950.06	3850426	Transmission bellows Ø83x160 mm	SX-DPS	-
43.950.08	3888916	Bellows 116x77x180 h mm	SX-A; DPS-A/B	-
43.932.12	858955	Coupling sleeve	AQ 31-41	-
43.932.13	860396	Coupling sleeve	KAD42	-
43.932.16	3852696	Coupling sleeve	4.3L/5.0L/5.8L/ 7.4L/8.1L/8.2L	-
43.932.17	3588753	Transmission bellows	DPR DPH	-
43.932.18	3863450	Transmission bellows	D3 / MD - TMD - TAMD 22	-

Ring box flying rubber

Code	Original reference
43.932.25	OE 804190
43.932.26	OE 813967

Double elbow

Rubber hose for water intake in stern drive units

Code	Original reference	INCLUDED
43.951.00	875822-9/897599-7	Clamps
43.951.01	876632 (290-A-DP-DPA-DPA1)	Clamps
43.951.02	3852352 (DPS-SX)	Clamps

Gaskets

Made of **rubber**, boat sealing for Volvo Sail Drive legs.

Code	Original reference
43.952.00	854932; 22303438

► Spare parts for MERCRUISER engines

Transmission bellows for Mercruiser engines

Code	Original reference	Description
43.932.01	60932A4	sterndrive bellows
43.932.07	816431A1	transmission Alpha I Generation II bellows
43.932.08	36223A2	transmission Mercruiser I drive 1A-1B-1C bellows
43.932.09	86840A3	transmission Bravo I/II/III bellows

◢ 43.932.10

◢ 43.932.11

◢ 43.932.03

◢ 43.932.04

Exhaust sleeve for Mercruiser engines

Code	Model	Original reference
43.932.10	140/165 HP	53114A1
43.932.11	170/488 HP	70981A3
43.932.03	Stern Drive exhaust	78458A1
43.932.04	4" lower exhaust	32-14358T
43.932.05	4" upper exhaust	32-44348T
43.932.06	3" lower exhaust	32-90949T
43.932.14	BRAVO exhaust	32-807458T

◢ 43.932.05

◢ 43.932.06

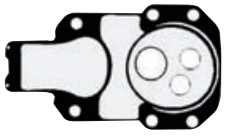
◢ 43.932.14

Bellows for MERCRUISER engine control cable

Code	Description	Original reference
43.932.20	Command cable Stern Drive	74639/74639A2

Bellows for MERCRUISER engine exhaust

Code	Description	Original reference
43.932.00	Exhaust Stern Drive	18654A1



Gasket kit for Mercruiser engines

Code	Description	Original reference
43.050.10	Kit complete with seals, sealing ring and 3 x O-Rings for Mercruiser Stern, Drive Alpha 1	27-94996A1

Double curve for Mercruiser engines

Made of plastic, for water intake

Code	Original reference
43.951.05	32-43437

► Spare parts for OMC COBRA

Transmission bellows for Omc Cobra engines

Code	Description	Original reference
43.932.60	Transmission bellows	983973

► TECNOSEAL anodes

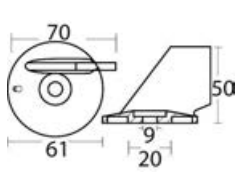
TECNOSEAL

AVAILABLE RANGE:
1) **ZINC** anodes (MIL-A-18001K specifications) for salt water.
2) **ALUMINIUM** anodes (MIL-A-24779 specifications) for salt and mixed water. Some marine engine manufacturers supply standard aluminium anodes on their engines.
3) **MAGNESIUM** anodes (AZ-91-D specifications) for fresh water.

► OMC / JOHNSON / EVINRUDE anodes

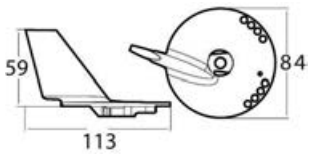
OMC Johnson EVINRUDE

Anode fin for 40/70 HP 4 stokes



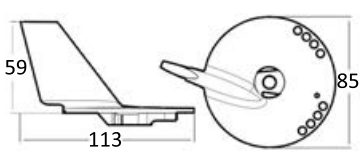
Zinc	Aluminium	Magnesium	Original reference
43.272.86	43.272.82	43.272.83	5031536

70 HP 4-stroke fin anode



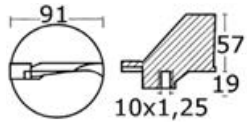
Zinc	Aluminium	Magnesium	Original ref.
43.272.87	43.272.88	43.272.89	5032929

Fin anode for 60/70 HP 4 stroke



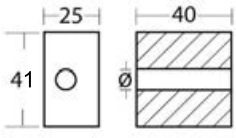
Code	Original reference
43.272.85	5032929

Anode fin for 225 HP 4 strokes



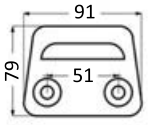
43.253.00

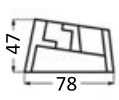
50-200 HP leg anode



Zinc	Aluminium	Magnesium	Bore Ø	Original Ref.
43.317.00	43.317.01	43.317.02	8	393023/436745
43.317.10	43.317.11	43.317.12	3/8"x16	-

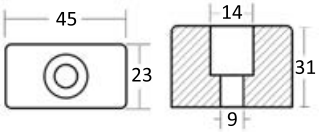
Anode for King Cobra





Zinc	Aluminium	Magnesium	Orig. Ref.
43.541.30	43.541.31	43.541.32	3854130

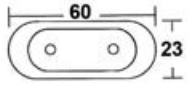
Anode for outboard engines

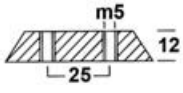


For Evinrude/Johnson outboard engines.

Code	Original ref.
43.314.00	395780

Outboard anode

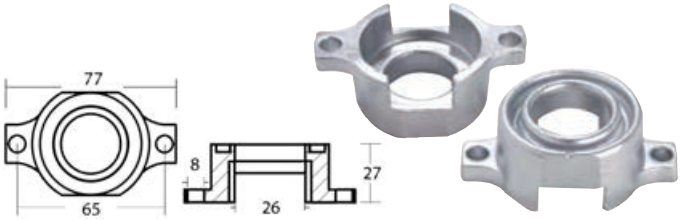




Also suitable for Honda outboard engines.

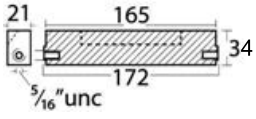
Zinc	Aluminium	Magnesium	Original ref.
43.315.20	43.314.98	43.314.97	173029/123009

Outboard anode 737 for OMC



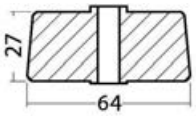
Zinc	Original reference
43.316.20	398873

U-shaped anode for Outboard Motor 60/300 HP



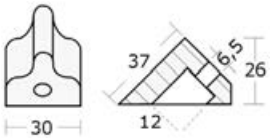
Zinc	Aluminium	Magnesium	Original reference
43.316.33	43.316.34	43.316.35	500789/433580

Cube anode



Zinc	Aluminium	Magnesium	Original ref.
43.317.20	43.317.21	43.317.22	377768

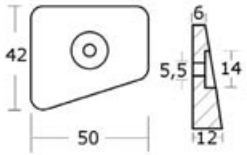
Anode for 4 - 8 HP outboard engines



Code	Original reference
43.316.00	334451 432397

TECNOSEAL

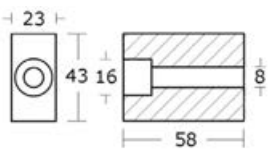
Double zinc for Johnson/Evinrude



For Johnson/Evinrude 20/25/35 from 1991 on.

Code	Original ref.
43.316.10	434029

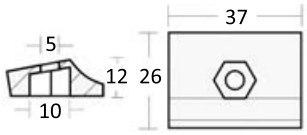
Anode for 60/280 HP



Anode for 60/280 HP from 1985 on + manual overturning models from 1991.

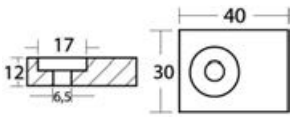
Code	Original ref.
43.306.00	398331/433458

Anode plate for 9.9-15 Hp 2 strokes + 8/9.9/15 4 strokes



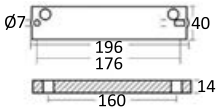
Code	Original reference
43.315.30	338635

Leg anode plate for 40/50 HP 4 strokes



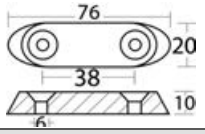
Zinc	Aluminium	Magnesium	Original reference
43.903.20	**43.903.21**	**43.903.22**	5030265/5035786

Anode rod for 40/70 HP 4 strokes



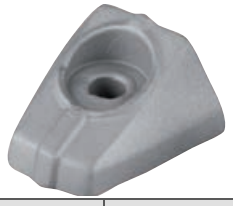
Zinc	Aluminium	Magnesium	Original reference
43.640.04	**43.640.14**	**43.640.17**	5034616/5030907

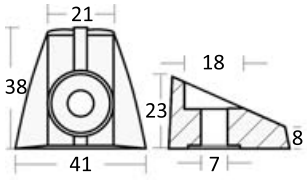
Anode plate for 40/50 HP 4 strokes



Zinc	Original reference
43.274.00	5031538

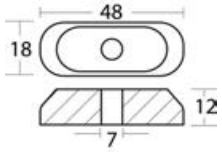
Anode for 5 HP 4 strokes





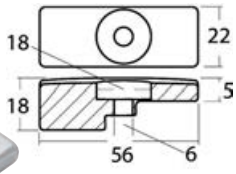
Code	Original reference
43.272.20	5030267

Plate



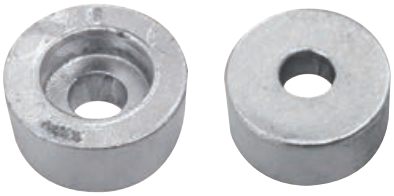
Code	Orig. Ref.
43.903.30	5033167

Plate leg for 60/140 HP 4 strokes



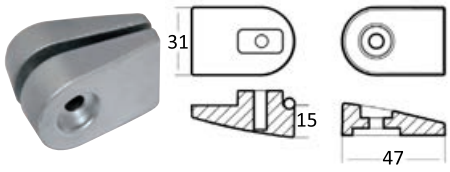
Zinc	Aluminium	Magnesium	Original reference
43.903.32	**43.903.38**	**43.903.39**	5032930

Washer



Zinc	Aluminium	Magnesium	Ø mm
43.261.00	**43.261.01**	**43.261.02**	21x10
43.823.91	**43.823.92**	**43.823.93**	20x7

Double plate



Code	Original ref.
43.316.11	389999

◢ 43.317.24

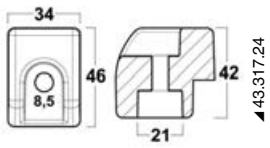
◢ 43.317.27

◢ 43.317.30

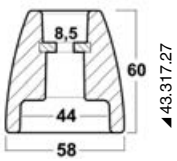
◢ 43.317.41

Anodes for Johnson / Evinrude G2 - Series 200-300 engines

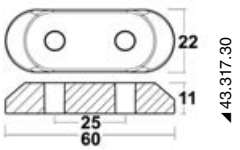
Code	Description
43.317.24	Aluminium anode
43.317.27	Aluminium ogive
43.317.30	Aluminium plate
43.317.41	Kit Evinrud ETEC-GE: 43.316.34 + 43.317.24 + 43.317.27 + 43.317.30



◢ 43.317.24



◢ 43.317.27



◢ 43.317.30

TECNOSEAL

► MERCURY / MARINER / MERCRUISER anodes

MERCURY MARINER mercruiser

Anode leg for 50/75 HP outboard engines

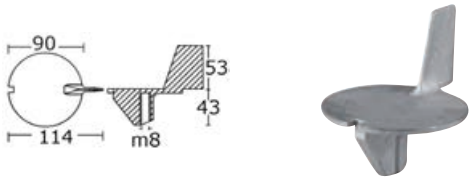
Also for Mariner **with the same power**.

Code	Original ref.
43.172.64	17264

Anode fin for outboard engines 18/25 HP

Code	Original ref.
43.426.00	94286

Anode for 9.9/25 HP, Force 25, Yamaha 4S 50 HP engines



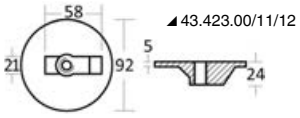
Code	Original ref.
43.426.10	984325

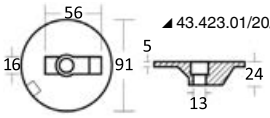
Anode for legs with 50/140 HP stainless steel propellers

Code	Original ref.
43.426.20	46399

Flat fin anode for Alpha/Bravo/Verado

Zinc	Aluminium	Magnesium	Description	Original ref.
43.423.00	**43.423.11**	**43.423.12**	Flat fin anode Alpha/Bravo 35/300 HP	806105
43.423.01	**43.423.20**	**43.423.21**	Flat fin anode Bravo	762144

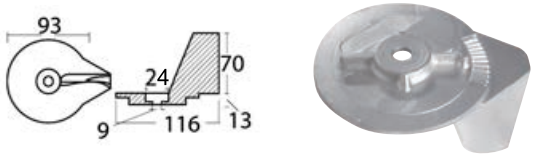




◢ 43.423.00/11/12

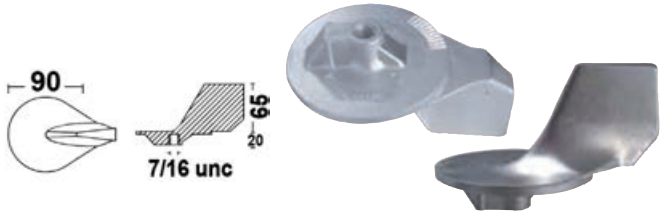
◢ 43.423.01/20/21

25/50 HP anode fin, 2 and 4 strokes.



Zinc	Aluminium	Magnesium	Original ref.
43.822.15	**43.822.16**	**43.822.17**	822157-C2

35/225 HP anode fin



35/225 HP anode fin for outboard engines and stern drives from 1995 on.

Code	Original ref.
43.227.77	822777

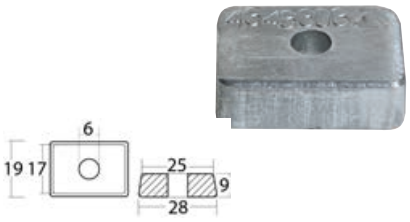
Anode fins

Zinc	Aluminium	Magnesium	Fin	Original ref.
43.420.00	**43.420.10**	**43.420.11**	Fin anode 2 and 4 stokes 40 to 225 HP for outboard engines, thread 7/16"	31640

Anode fins

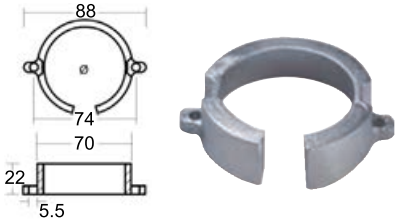
Zinc	Fin	Original ref.
43.425.00	Outboard engine fin anode for stern drives	34127

Anode for Mercury 4/5/6 HP



Zinc	Aluminium	Original ref.
43.433.03	**43.433.04**	875208

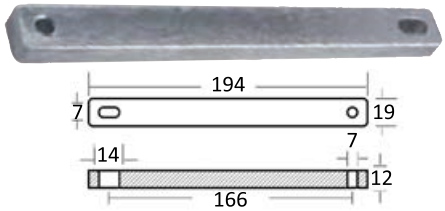
Propeller shaft bracket anode



Propeller shaft bracket anode Mercruiser Bravo I.

Zinc	Aluminium	Magnesium	Original ref.
43.806.18	**43.806.19**	**43.806.20**	806188A

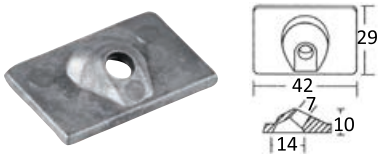
Trim for 25/30/40 HP 2- and 4-stroke outboard engines



Code	Original ref.
43.252.71	825271

TECNOSEAL

Anode 6/8/9.5/15 HP



Code	Original ref.
43.433.01	42121

Plate anode for Alpha One in/ outboards

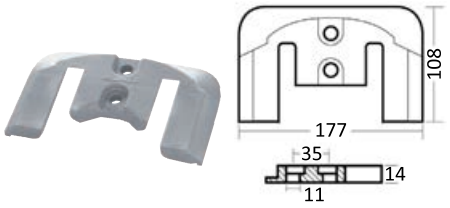
Zinc	Aluminium	Magnesium	Original ref.
43.435.10	43.435.11	43.435.12	815933A1/ 821629A1

Anode for engine rods

For 2- and 4-stroke 30 to 200 HP and Superamerica engine rods, fitted with 4 bores.

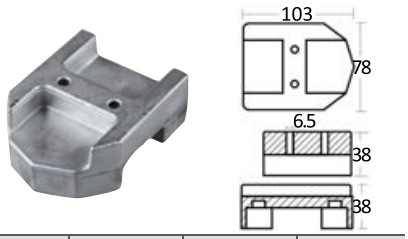
Zinc	Aluminium	Magnesium	Original ref.
43.434.10	43.434.11	43.434.12	818298A1

Anode plate for Bravo



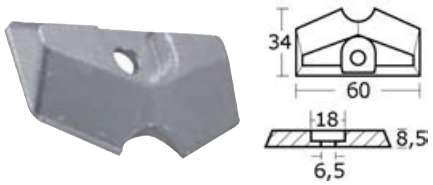
Zinc	Aluminium	Magnesium	Original ref.
43.435.20	43.435.21	43.435.22	821630A/C

Anode for Mercruiser sterndrive units



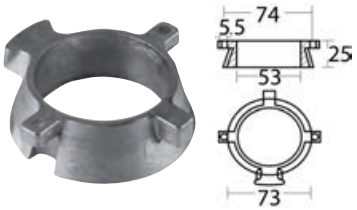
Zinc	Aluminium	Magnesium	Original ref.
43.435.00	43.435.01	43.435.02	821631A-1

Anode for 2/6 HP outboard engine



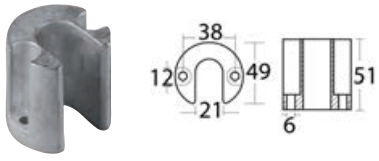
Code	Original ref.
43.259.03	810945M

Collar anode for Alpha



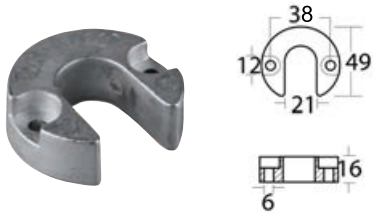
Zinc	Aluminium	Magnesium	Original ref.
43.432.00	43.432.10	43.432.11	806105A

Bravo/Blackhawk anode leg



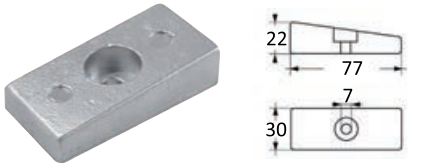
Zinc	Aluminium	Magnesium	Original ref.
43.424.00	43.424.30	43.424.31	806190A

Anode leg for Mercruiser/Alpha



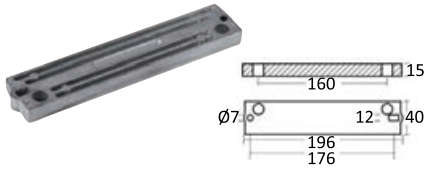
Zinc	Aluminium	Magnesium	Original ref.
43.424.01	43.424.22	43.424.23	806189A

Anode for Mercury 30/300 HP 2- and 4-strokes



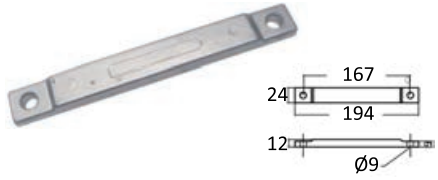
Zinc	Aluminium	Magnesium	Original ref.
43.424.05	43.424.08	43.424.09	826134

Anode plate for 25/40 HP engines



Zinc	Aluminium	Magnesium	Original ref.
43.640.04	43.640.14	43.640.17	8239121

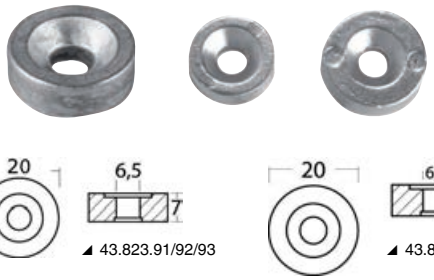
Anode rod for Verado



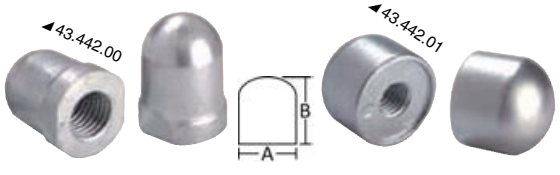
Zinc	Aluminium	Orig. Ref.
43.424.20	43.424.21	8M00-12083

Washer

Zinc	Aluminium	Magnesium	Ø mm	Original ref.
43.823.91	43.823.92	43.823.93	20x7	823912
43.239.13	43.239.14	43.239.15	24x6,5	823913
-	43.640.16	-	24x7	823912
43.824.91	43.824.92	43.824.93	20x7	823912-1



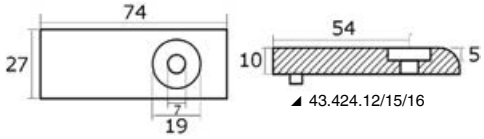
Support anode for outboard base

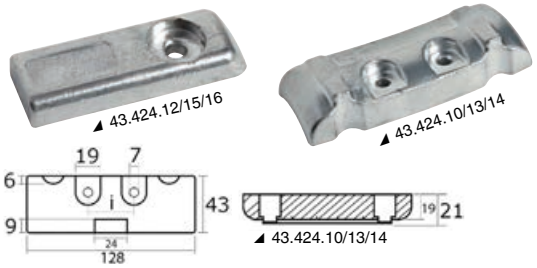


Zinc	Aluminium	Magnesium	Description	A mm	B mm
43.442.00	-	-	Base support anode for stern drive, thread 12x1,75 mm	22/25	35
43.442.01	43.442.11	43.442.12	Base support anode for stern drive (Orig. Ref. 55989A) thread 1/2" UNC (120/160 HP) (Orig. Ref. 55989A3) foot ALPHA/BRAVO	33	29

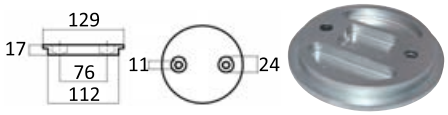
Anode for Verado

Zinc	Aluminium	Magnesium	Original reference
43.424.10	43.424.13	43.424.14	880653
43.424.12	43.424.15	43.424.16	892227 / 893404





Flange for Verado

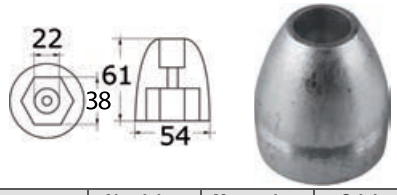


Zinc	Aluminium	Orig. Ref.
43.424.40	43.424.41	847-635001

Zinc plate for 115/200 HP

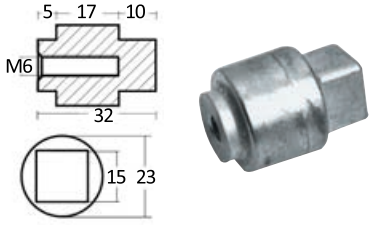
Code	Original reference
43.437.00	89949

Ogive anode for Bravo III



Zinc	Aluminium	Magnesium	Original reference
43.966.50	43.966.51	43.966.52	865182

Anode cylinder for Mercury 90 HP 4 strokes



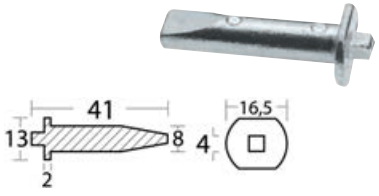
Code	Original reference
43.260.07	804079002

Anode cylinder for Mercury 2.5/70HP

13x13.6x12.7 mm.

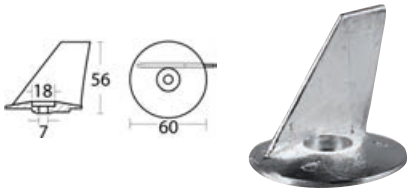
Code	Original ref.
43.260.12	825435

Anode cylinder



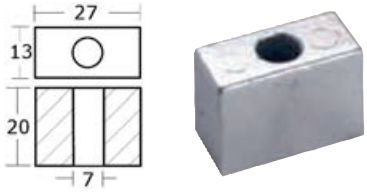
Code	Original ref.
43.260.14	P26887M

Fin anode for up to 50 HP 4 strokes



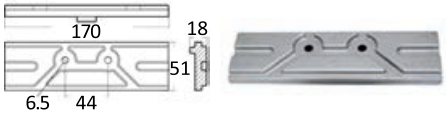
Code	Ø mm	Original ref.
43.640.02	59.5	853762

Cube anode for up to 30 HP, 4 strokes



Code	⟷ mm	Original ref.
43.640.05	27x13x20	804043

Plate anode for outboards up to 150 HP, 4 strokes



Zinc	Aluminium	Magnesium	Original ref.
43.434.30	43.434.31	43.434.32	8M0057772

Anode kit for Mercury

Zinc	Aluminium	Magnesium	Description	The kid includes
43.355.00	43.355.01	43.355.02	4-pcs set for VERADO 4 / OPTIMAX	826134 (2 pcs) + 828298+762145
43.356.00	43.356.01	43.356.02	8-pcs set for VERADO 6	892227 (4 pcs) +880653+ 826134 (2 pcs)+762145
43.357.00	43.357.01	43.357.02	4-pcs set 75/80/90/ 100/115 EFI	826134x2 + 31640 + 818298
43.358.00	-	-	Kit F30/F40/F60	-

Anode kit for Mercruiser, interchangeable with genuine ones

Zinc	Aluminium	Magnesium	Description	The kit includes
43.359.00	43.359.01	43.359.02	6-pcs Set ALPHA I series II from 1991 up to now	762145+806189x2+ 806105+821629+821631
43.360.00	43.360.01	43.360.02	5-pcs Set BRAVO I from 1988 up to now	762145+806188x1+ 821630+806190x2
43.361.00	43.361.01	43.361.02	4-pcs Ser BRAVO II from 1989 up to now / BRAVO III 1989-2003	762145+821630+806190x2
43.362.00	43.362.01	43.362.02	6-pcs Set BRAVO III from 2004 up to now	762144+762145+865182+ 821630+806190x2

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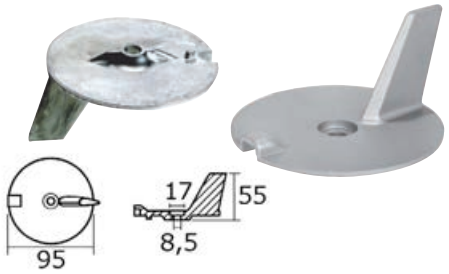
► YAMAHA/MARINER anodes

YAMAHA MARINER

Directional fin for Yamaha 225/300 HP

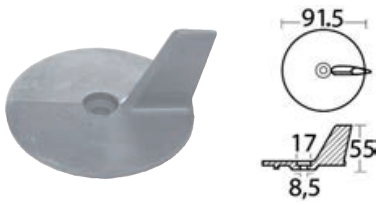
Zinc	Aluminium	Magnesium	Ø mm	Original reference
43.252.96	43.252.99	43.252.89	100	61A-45371-00

Fin anode for Yamaha 25/60 HP 4 strokes



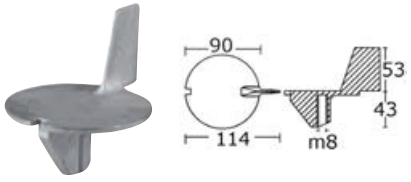
Zinc	Aluminium	Magnesium	Ø mm	Original reference
43.253.02	43.253.03	43.253.04	95	67C-45371-00

Fin anode for Mariner/Yamaha 20/50 HP



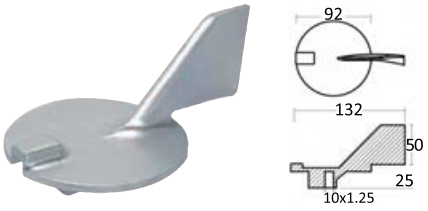
Zinc	Aluminium	Magnesium	Ø mm	Original reference
43.256.00	43.256.01	43.256.02	94	664-4537101

Anode leg for 50 HP 4-stroke engines



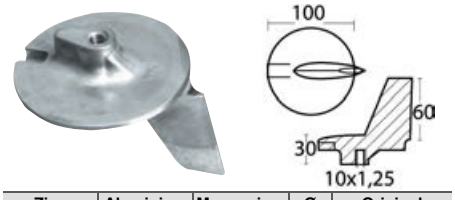
43.426.10

Anode fin for 50/100 HP 4-stroke engine

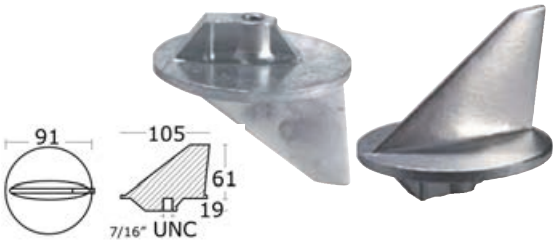


Zinc	Ø mm	Original reference
43.269.00	90	67F-4537100

Directional fin for Yamaha 200/300 HP

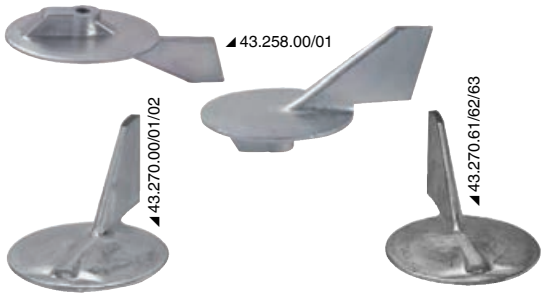


Zinc	Aluminium	Magnesium	Ø mm	Original reference
43.252.95	43.252.93	43.252.92	100	69L-45371-00



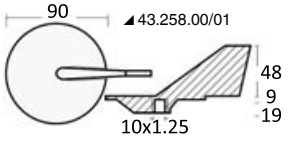
Long/short anode fins

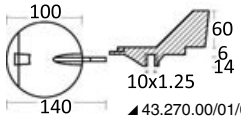
Zinc	Aluminium	Magnesium	Description	Ø mm	Original reference
43.420.00	43.420.10	43.420.11	Short fin anode for Mariner 40/60HP later than 1991 and for Yamaha 40/55 HP (thread 7/16")	90	00800-01411



Yamaha/Mariner fin anode

Zinc	Aluminium	Magnesium	Description	Ø mm	Original reference
43.258.00	43.258.01	-	Fin 50/90 HP	90	688.45371.02
43.270.61	43.270.62	43.270.63	Fin 100/220 HP counter-rotating leftward bend	100	6K1-4537102
43.270.00	43.270.01	43.270.02	Fin 100/220 HP rightward bend	100	6J9-4537101



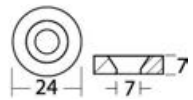


◢ 43.270.00/01/02/61/62/63

◢ 43.253.00/10 ◢ 43.253.01 ◢ 43.253.00/01

Anode fin left/right

Zinc	Aluminium	Description	Ø mm	Original reference
43.253.00	43.253.10	Fin 90/200 HP and over, rightward bend	92	6E5-45371-01
43.253.01	-	Fin 100/200 HP, counter-rotating leftward bend	92	6K1-4537100

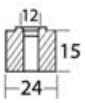


◢ 43.260.00/43.259.99/98

◢ 43.239.13/14/15

Washer

Zinc	Aluminium	Magnesium	Ø mm	Original ref.
43.260.00	43.259.99	43.259.98	24x7	677-4525100
43.823.91	43.823.92	43.823.93	20x7	676-4525100
43.239.13	43.239.14	43.239.15	24x6.5	-
43.260.01	43.260.31	43.260.32	24x15	688-45251-01



◢ 43.260.01/31/32

◢ 43.823.91/92/93

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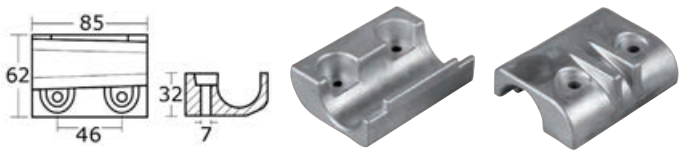
Washer for 9.9/15 HP

Code	Ø mm	Original reference
43.262.00	45	6E8-4525100

4-stroke anode for 40/50 HP outboard engines

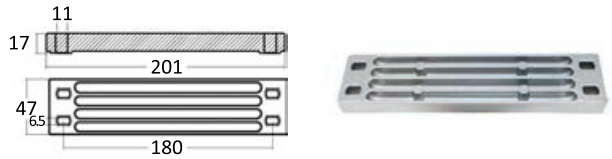


Code	Original reference
43.264.00	63D-4525100

Fin anode for Yamaha 150/225 HP 2/4-strokes

Code	Ø mm	Original ref.
43.252.80	100	6J9-45371-00

Oblong Anode



Zinc	Aluminium	Magnesium	Original ref.
43.254.04	43.254.05	43.254.06	6AW-4525-1

Anode 100/300 HP

Zinc	Aluminium	Magnesium	Original reference
43.254.00	43.254.01	43.254.02	6G5-45251-01/02

Anode for outboard engines

Anode for outboard engines F8A/B 9.9D/F9.9B/15D.

Zinc	Original ref.
43.263.00	6E8-45251-02

Onboard/outboard engine anode with plug (zinc)

Zinc	Original reference
43.254.80	N51-11325-01

Onboard/outboard plate (zinc)

Zinc	Original reference
43.254.60	6U4-45373-00

Onboard bar (zinc)

Zinc	Original reference
43.254.70	6U4-45251-00

Anode rod for Yamaha and Mariner 25/100 hp

Zinc	Aluminium	Magnesium	Original reference
43.254.10	43.254.11	43.254.12	6H1-4525103

Onboard/outboard plate (zinc)

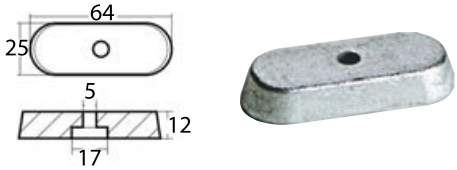
Zinc	Original reference
43.254.50	6UO-45251-00

200/350 HP engine plate

Zinc	Aluminium	Magnesium	Original ref.
43.258.50	43.258.51	43.258.52	6AW-45619-00

Anode leg for Yamaha 6/8/9.9 HP 4-stroke engines

Zinc	Aluminium	Original reference
43.260.04	43.260.24	68T-45251-00



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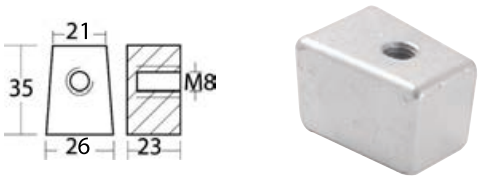
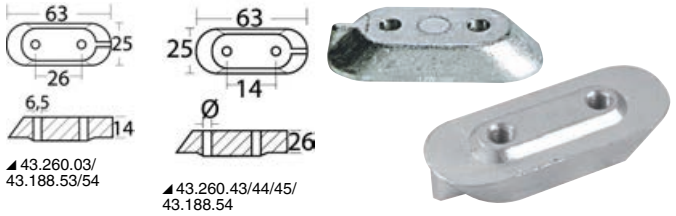
Anode leg



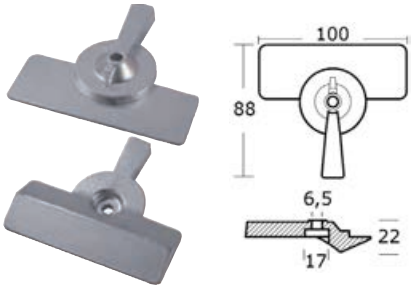
Zinc	Aluminium	M;agnesium	Original reference
43.260.02	43.260.50	43.260.51	67C-45251-00 / 63D-45251-10

Anode bridge for Yamaha 4/70 HP 4-stroke



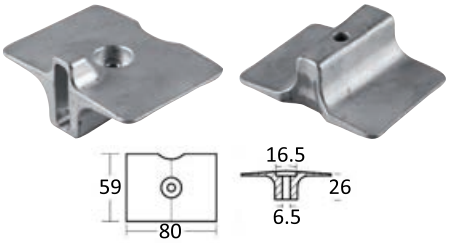
Zinc (ex 43.188.52)	Aluminium	Magnesium	Bore Ø mm	Thread	Original reference
43.260.03	43.188.53	43.188.54	6.5	-	65W-45251-00/6EO-4525112
43.260.43	43.260.44	43.260.45	-	M5	65W-45251-00/6EO-4525112

Anode 9.9 HP



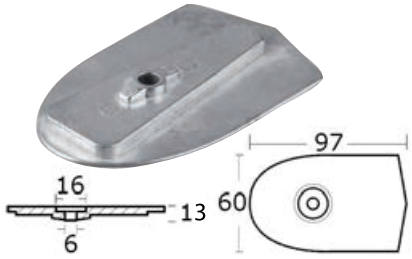
Code	Original reference
43.266.00	6G8-4525101

9.9/15 HP - 2S anode



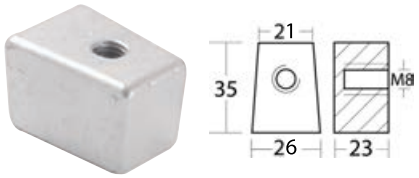
Zinc	Aluminium	Magnesium	Original reference
43.267.00	43.267.01	43.267.02	61N-4525101

Anode plate for 6C/6D/8C



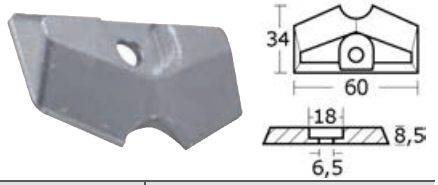
Code	Original reference
43.259.01	6G1-45251-03-6N0-65251-00

40/50 HP anode



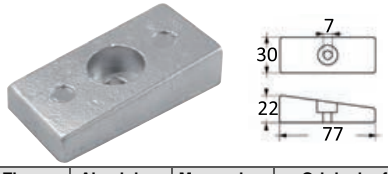
Code	Original reference
43.260.02	63D-4525110

Anode plate for 2B/3A/4B/F4A/5C



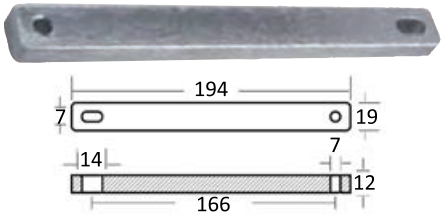
Code	Original reference
43.259.03	6L5-4525103 • 68D-G5251-00

Anode for 40/70 HP 4-stroke engines



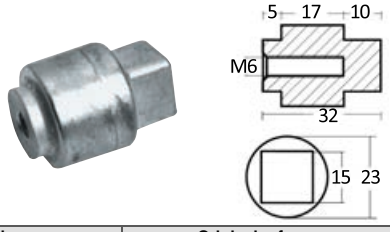
Zinc	Aluminium	Magnesium	Original ref.
43.424.05	43.424.08	43.424.09	00825-01405

Anode rod 30/50 HP 2 and 4 strokes



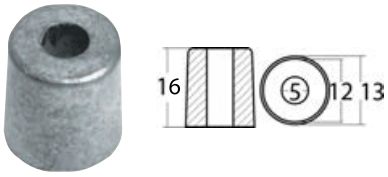
43.252.71

Anode cylinder for Yamaha 80/100 HP



Code	Original reference
43.260.07	67F-11325-00

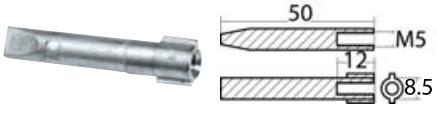
Anode cylinder for Yamaha 2.5/70HP



13x13.6x12.7 mm.

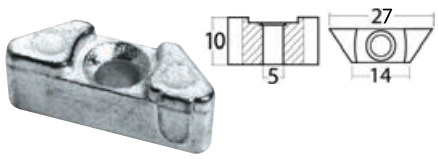
Code	Original ref.
43.260.12	6G8-11325-00

Anode cylinder for Yamaha 40/200 HP



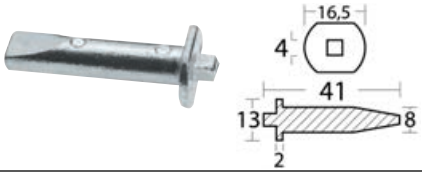
Code	Original reference
43.260.09	62Y-11325-00

Anode cylinder for Yamaha 9.9/250 HP



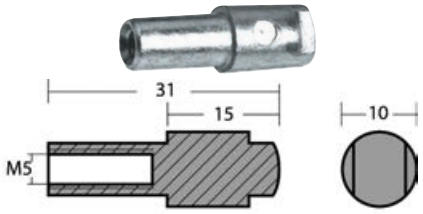
Code	Original ref.
43.260.13	6E5-11325-00

Anode cylinder for Yamaha 20/30 HP



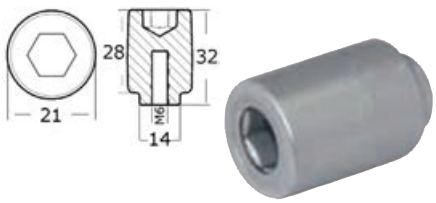
Code	Original ref.
43.260.14	6J8-11325-00

Anode cylinder for Yamaha 9.9/300 HP



Code	Original ref.
43.260.15	66M-11325-00

Anode cylinder for 80/225 HP engine



Zinc	Aluminium	Original reference
43.260.05	43.260.20	68V-11325-01

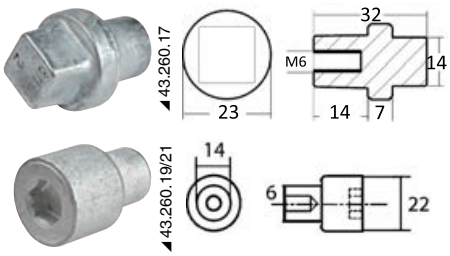
YAMAHA Aluminium anode leg 300/ 450 HP

Code	Description	Orig. Ref.
43.252.98	300/350 HP	6AW-45373-00

Zinc plate

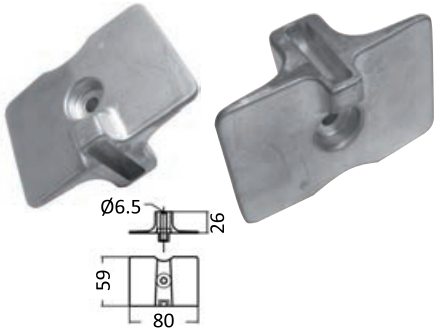
Code	Original ref.
43.437.00	115/200 HP

Anode cylinder for Yamaha



Zinc	Alluminium	Description	Orig. Ref.
43.260.17	-	Cylinder 80 to 300 HP	67F-11325-01
43.260.19	**43.260.21**	Cylinder 80 to 250 HP	68V-11325-02

Plate 15/20 HP



Zinc	Aluminium	Magnesium	Orig. Ref.
43.276.00	**43.276.01**	**43.276.02**	6AH45251

Kit for Yamaha 60/90 HP

Zinc	Aluminium	Description	Orig. Ref.
43.354.00	**43.354.01**	60/90 HP	688-45371.02 + 6H1-4525102

Kit for Yamaha 40/60 HP 4 strokes

Zinc	Aluminium	Engine	Content
43.354.02	**43.354.03**	40/60 4S	67C-45.371.00 + 67C-45.251.00 + 65W-45.251.00 (3pcs)

Kit for Yamaha outboards

Zinc	Description	Content
43.354.10	Kit 40/50 HP	43.256.00+43.260.03+43.264.00+43.260.02+43.260.11
43.354.11	Kit 80/100 HP	43.254.10+43.269.00+43.260.07

Anode kit for Yamaha outboards

Zinc	Aluminium	Magnesium	Motor type	The kit includes
43.350.00	**43.350.01**	**43.350.02**	150-200 HP	6G54525101+6J94537101
43.351.00	**43.351.01**	**43.351.02**	150-200 HP Counter-rotating	6G54525101+6K14537102
43.352.00	**43.352.01**	**43.352.02**	200-250 HP	6G54525101+61A4537100
43.353.00	**43.353.01**	**43.353.12**	200-300 HP High performance	6G54525101+69L4537100
43.355.13	**43.355.14**	**43.355.15**	300-350-425 HP High performance	-

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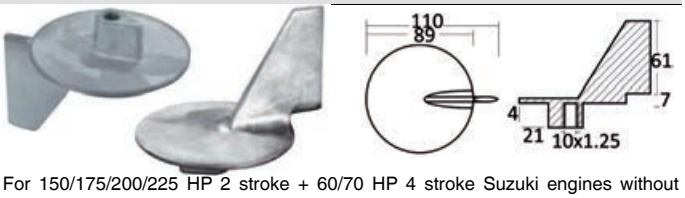
► SUZUKI anodes

SUZUKI

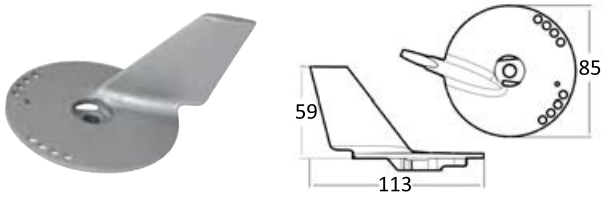
Fin anode for Suzuki engines



For 150/175/200/225 HP 2 stroke + 60/70 HP 4 stroke Suzuki engines without cooling system.

Code	Ø mm	Original ref.
43.272.80	88	55120-87801 / 5512587D00

Fin for 60/140 HP 2/4 strokes

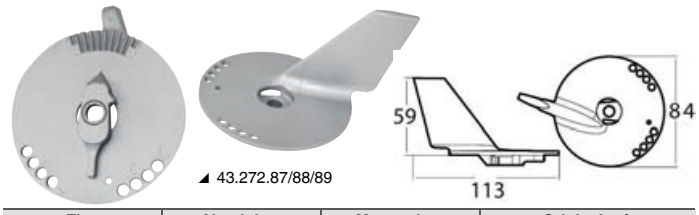


Code	Ø mm	Original ref.
43.272.85	84	55125-87E01

Fin anode for 55/65/75/85 HP + 40/70 4-stroke engines

Zinc	Aluminium	Magnesium	Ø mm	Original ref.
43.272.86	**43.272.82**	**43.272.83**	60	55125-95500

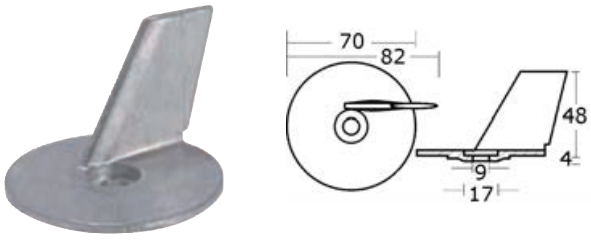
Anode fin for Suzuki DF60/140 engines with bores



◢ 43.272.87/88/89

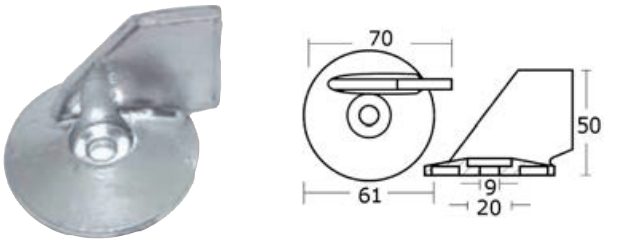
Zinc	Aluminium	Magnesium	Original ref.
43.272.87	**43.272.88**	**43.272.89**	55125-90J01

20/35 HP 2/3 cylinder, 2/4 stroke anode fin



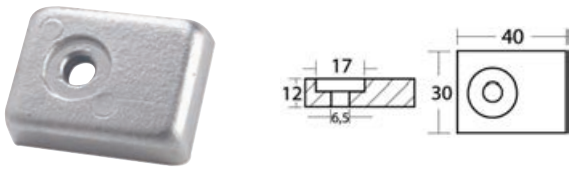
Code	Ø mm	Original reference
43.272.00	70	55125-96310

Anode fin for 25/50 HP



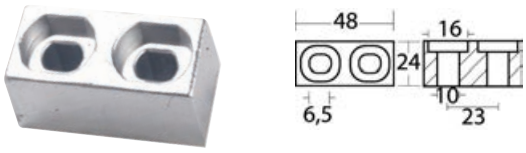
Code	Ø mm	Original reference
43.272.70	60	55125-96301

Plate anode 40/115 HP 2 strokes - 25/300 HP 4 strokes



Zinc	Aluminium	Magnesium	Original reference
43.903.20	**43.903.21**	**43.903.22**	55320-95311

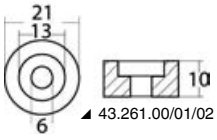
Clamp and terminal plate for 55/75/85/90/150/200/225 HP engines



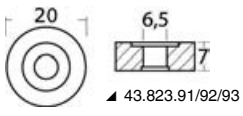
Zinc	Aluminium	Magnesium	Original reference
43.272.30	**43.272.31**	**43.272.32**	55320-95311

Washer for Suzuki 4/300 HP outboard engines

Zinc	Aluminium	Magnesium	Ø mm	Original Ref.
43.261.00	**43.261.01**	**43.261.02**	21x10	55321-87J00
43.823.91	**43.823.92**	**43.823.93**	20x7	11130-94600

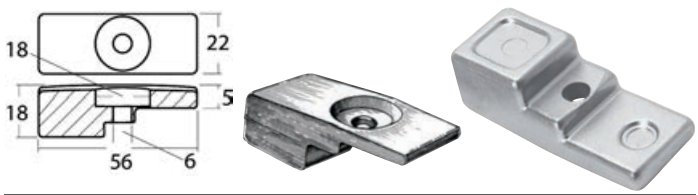


◢ 43.261.00/01/02



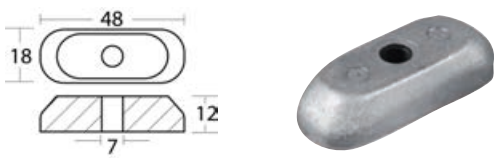
◢ 43.823.91/92/93

Anode plate for Suzuki 4S 60/140 HP



Zinc	Aluminium	Magnesium	Original ref.
43.903.32	**43.903.38**	**43.903.39**	55321-90J01

2-5 HP plate without insert fitted with 7-mm Ø bore.



Code	Original ref.
43.903.30	55320-98400

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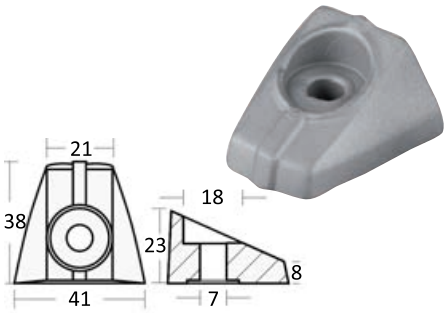
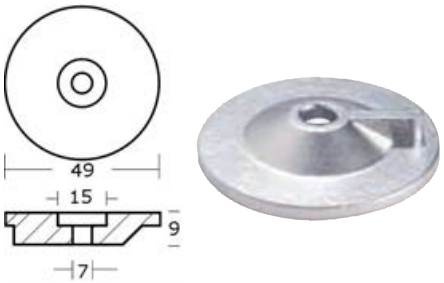
Anode plate for 4/6 HP engines



Code	Original reference
43.272.20	55.320-98.600

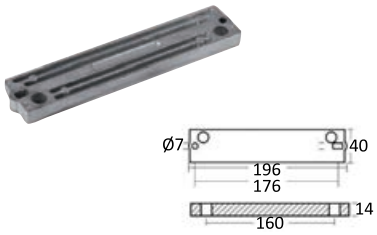
Plate anode



Anode for 8/9.9/15 HP 2 strokes + 9.9/15 4 strokes.

Code	Original ref.
43.272.40	53321-93900

Anode rod for 60/250 HP 2/4 strokes



Zinc	Aluminium	Magnesium	Original ref.
43.640.04	**43.640.14**	**43.640.17**	55321-94900

Anode plate for all models

Zinc	Original ref.
43.274.00	55300-95500

Plate anode for 6/15 HP 4 strokes with M6 thread.

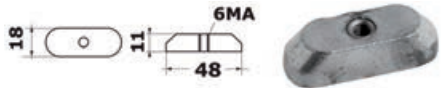


Plate anode **with 6 MA threaded insert**, 48x18 mm.

Code	Original ref.
43.903.35	41811-98500

Anode kit for Suzuki

Zinc	Aluminium	Magnesium	Engine type HP	Kit content original reference
43.370.00	**43.370.01**	**43.370.02**	40/50	55320-95311 (2) - 55321-87J00 (4) - 55125-95500 (1)
43.371.00	**43.371.01**	**43.371.02**	90/140	55321-90J01 (1) - 55321-87J00 (4) - 55320 - 94900 (1)
43.372.00	**43.372.01**	**43.372.02**	200/250	55320-94900 (1) - 55320 -95311 (2)

◢ 43.370.00/01/02

◢ 43.371.00/01/02

◢ 43.372.00/01/02

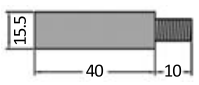
TECNOSEAL

► VOLVO anodes

VOLVO

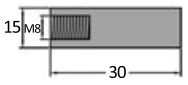
Anodes for heat exchangers/manifolds

Zinc	Zinc + brass	Brass only	⟷ mm	Original ref.	Thread
43.540.00	-	-	15x40+10	800476	7/16"
43.540.01	-	-	Ø 15x30	838929	M8
43.271.40	-	-	16x30+10	838929	7/16"
-	**43.540.10**	-	67x15 Ø	43.540.00 + brass	1/2'' BSPT
-	**43.540.11**	-	57x16 Ø	43.271.40 + brass	1/2'' BSPT
43.540.15	-	-	Ø16x13+10	-	5/16"
43.540.16	-	-	Ø26x44	823661	3/8"
-	**43.547.00**	-	Ø 25/40x45	-	3/8"
-	-	**43.540.17**	-	-	1''



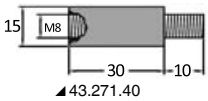
◢ 43.540.00

◢ 43.540.00



◢ 43.540.01

◢ 43.540.01



◢ 43.271.40

◢ 43.271.40

◢ 43.547.00

◢ 43.540.16

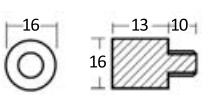
◢ 43.540.15

◢ 43.540.10

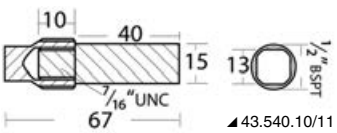
◢ 43.540.11

◢ 43.540.17

◢ 43.540.16



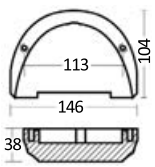
◢ 43.540.15



◢ 43.540.10/11

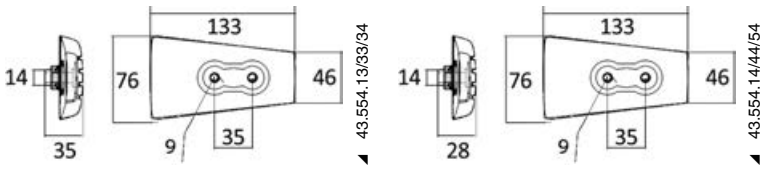
Duo Prop anode leg (also Cobra Omc anode leg)

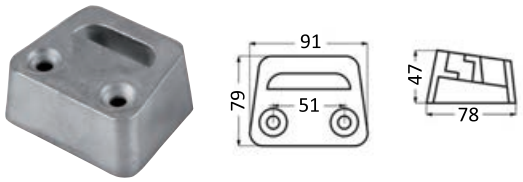
Zinc	Aluminium	Magnesium	Original reference
43.554.11	**43.554.09**	**43.554.10**	3855411-2



Anode for Volvo Penta DP series

Zinc	Aluminium	Magnesium	Orig. ref.
43.554.13	**43.554.33**	**43.554.34**	3588746/3588748/3588750
43.554.14	**43.554.44**	**43.554.54**	3589875/3589876



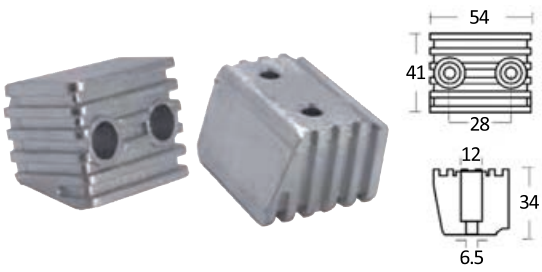


Volvo SX/DPS (also Cobra OMC leg)

Zinc	Aluminium	Magnesium	Orig. Ref.
43.541.30	**43.541.31**	**43.541.32**	3854130 / 3855610

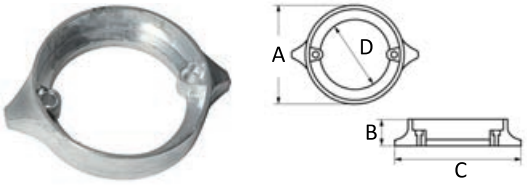
Universal rod for anode legs 250/270/280

Zinc	Aluminium	Magnesium	Original ref.
43.550.00	**43.550.01**	**43.550.02**	832598-7



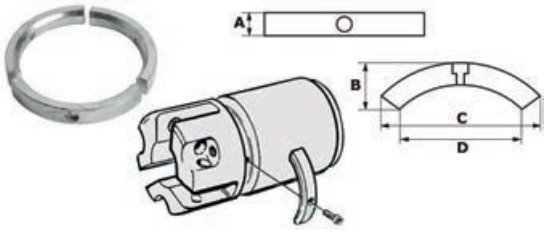
DPX anode legs

Zinc	Aluminium	Magnesium	Original ref.
43.549.05	**43.549.15**	**43.549.25**	873395-8



Anode for Penta Duo Prop Volvo

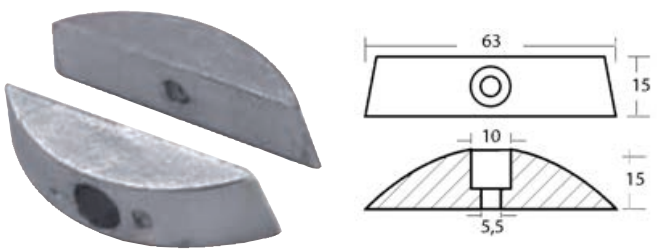
Zinc	Aluminium	Magnesium	A mm	B mm	C mm	D mm	Orig. Ref.
43.531.01	**43.531.10**	**43.531.11**	111	30	146	85	875821



Anode for Sail Drive/Folding Prop propeller leg, 3 piece series

Zinc	Aluminium	Magnesium	Description	A mm	B mm	C mm	D mm	Orig. Ref.
43.535.00	**43.535.10**	**43.535.11**	For 2/3-blade propellers	15	30	87	65	3858399
43.535.01	**-**	**43.535.13**	For 4-blade propellers	15	32	97	82	3584442

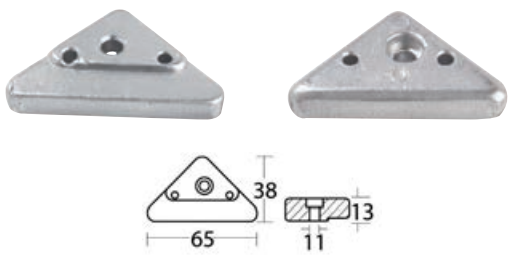
Pair of zincs



For foldable propellers (110S/120S/1205B/S120C).

Zinc	Aluminium	Original ref.
43.555.00	**43.555.10**	852018-1

DPX anode leg



Zinc	Aluminium	Magnesium	Original ref.
43.553.00	**43.553.10**	**43.553.11**	872793

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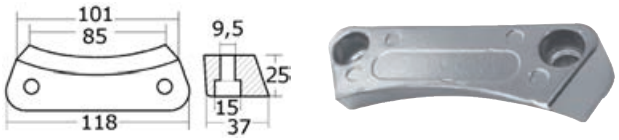
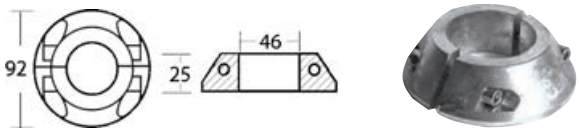
Volvo DPR - DPH anode



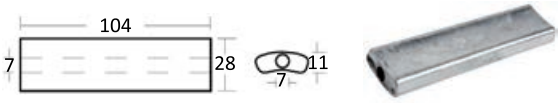
Zinc	Aluminium	Magnesium	Original ref.
43.554.15	43.554.28	43.554.19	3588745/3588768/3588770

Ring for Sail Drive Volvo leg with Max-Prop propeller



43.226.46 46-mm internal Ø.

Zinc plate with 104x28-mm passing-through hole



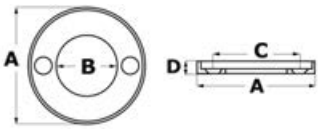
Zinc	Original reference
43.554.16	3852970

Two-piece anode for sail drive, 107-mm Ø collar

Zinc	Aluminium	Magnesium	Original reference
43.532.00	43.532.10	43.532.11	3888305 / 3888306

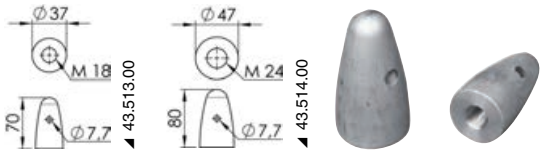
Collar anode

Code	A Ø mm	B mm	C mm	D mm	For foot	Original reference
43.510.00	100	52	70	12	Type 100	875810-4
43.525.00	114	58	80	9	Type 270	875805



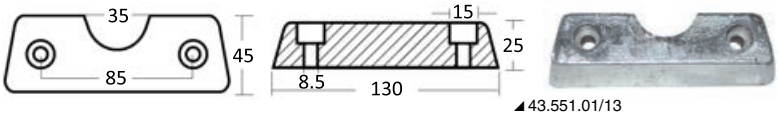
Zinc ogive

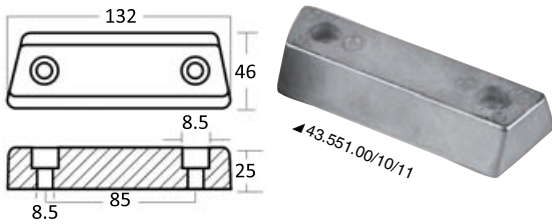
Code	Description	Original reference
43.513.00	Zinc ogive for propeller Ø 22/25/30 mm	833913-7
43.514.00	Zinc ogive for propeller Ø 35/40 mm	873413



Base anode for Duo Prop foot

Zinc	Aluminium	Magnesium	Original reference
43.551.00	43.551.10	43.551.11	852835-8
43.551.01	-	43.551.13	872139-1



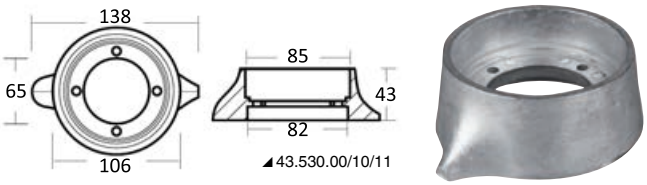


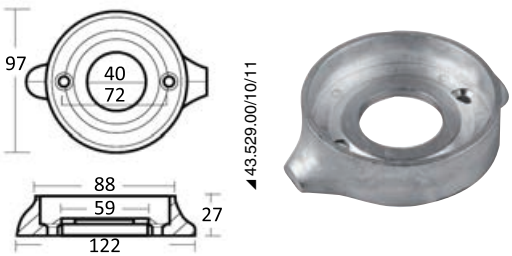
AQ200/290 collar anode leg

Zinc	Aluminium	Magnesium	Original reference
43.528.00	43.528.10	43.528.11	875815

Collar anode for Sail Drive

Zinc	Aluminium	Magnesium	⟷ mm	Type	Original reference
43.529.00	43.529.10	43.529.11	Ø 95 x H 27	SAIL DRIVE 120	876286
43.530.00	43.530.10	43.530.11	Ø 106 x H 43	SAIL DRIVE 110	875812

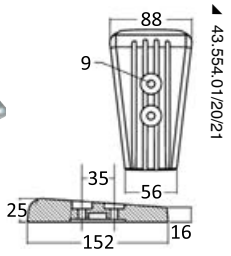


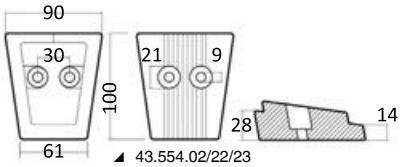


TECNOSEAL

Anode legs SX/DPS

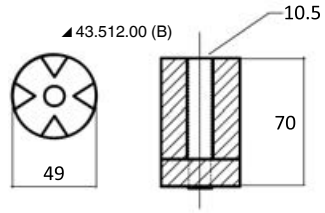
Zinc	Aluminium	Magnesium	Orig. Ref.
43.554.01	**43.554.20**	**43.554.21**	3888814 / 3883728
43.554.02	**43.554.22**	**43.554.23**	3888817 / 3841427

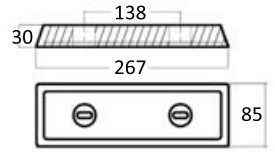




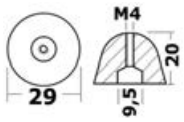
IPS kit

Code	The set includes	Orig. ref.
43.509.00	A + B	-
43.511.01	Only aluminium bar **A**	40005875
43.512.00	Only zinc anode **B**	3593881



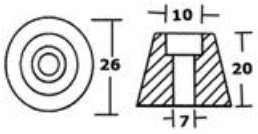


Bow Truster ogive



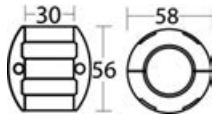
Code	Original reference
43.516.00	41100098

Bow Truster ogive



Code	Original reference
43.070.20	61180

Zinc Shaft Anode DPH/DPR



Code	Original ref.
43.226.48	3807400

XDP/B zinc anode leg kit

Zinc	Original reference
43.557.00	3861636 + 38.61634

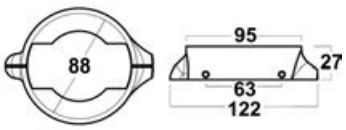
Anode kit for Volvo engines, interchangeables with the original ones

Material	2-pcs kit - VOLVO 280 (875815+832598)	2-pcs kit - VOLVO 280 DUO PROP (875821+832598)	2-pcs kit - VOLVO SX (3441427+3883728)	4-pcs kit - VOLVO 290 (875815+ 852835+872793x2)	4-pcs kit - VOLVO 290 DUO PROP (875821+852835+872793x2)	2/3-blade propeller kit D2-55 (3858399)	2-pcs kit -DPH/DPR (3588745+3863206)	2-pcs kit - SX-A/DPS (3841427+3883728)
Zinc	**43.340.00**	**43.341.00**	**43.342.00**	**43.343.00**	**43.344.00**	**43.347.00**	**43.345.00**	**43.346.00**
Aluminium	**43.340.01**	**43.341.01**	**43.342.01**	**43.343.01**	**43.344.01**	**43.347.01**	**43.345.01**	**43.346.01**
Magnesium	**43.340.02**	**43.341.02**	**43.342.02**	**43.343.02**	**43.344.02**	**43.347.02**	**43.345.02**	**43.346.02**

43.347.xx | 43.340.xx | 43.341.xx | 43.342.xx | 43.343.xx | 43.344.xx | 43.345.xx | 43.346.xx

Volvo Penta 2-piece collar - S. Drive 120 with 4 x M4X20 stainless steel screws

Zinc	Aluminium	Magnesium	Plate to adapt collar
43.529.12	**43.529.13**	**43.529.14**	**43.529.15**

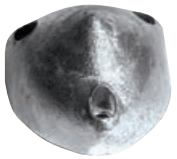


► MAX-PROP anodes for propellers

MAX PROP

Propeller cone

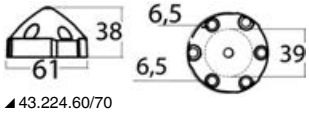
Zinc	Magnesium	Description	No. of bores
43.224.41	-	42-mm internal Ø, for 28/35-mm shafts	3
43.224.60	43.224.70	39-mm internal Ø, for 25/28-mm shafts	6
43.224.61	43.224.71	44-mm internal Ø, for 28/35-mm shafts	6
43.224.62	43.224.72	47-mm internal Ø, for 35/45-mm shafts	6



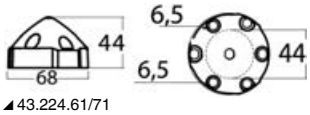
◢43.224.41

◢43.224.60/61/62/70/71/72

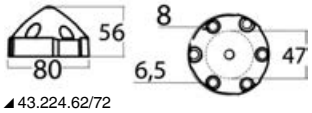
◢43.224.41



◢43.224.60/70



◢43.224.61/71



◢43.224.62/72

Ring for Volvo Sail Drive leg with Max-Prop propeller

Code	Inner Ø mm (A)	Outer Ø mm (B)	H mm
43.226.42	42	92	25
43.226.46	46	92	25

Anodes for Max-Prop

Code	Description
43.224.75	Collar

► BMW STERN DRIVE anodes

Anode collar

Code	⟷ mm
43.133.00	13x50

► YANMAR anodes

YANMAR

Stern drive kits

Aluminium	Magnesium	Description	Content	Original ref.
43.538.02	43.538.03	Stern drive kit	A+B+C+D (2 pcs)+E	196350-02550 + 196350-02570 + 196350-09910 + 196350-07360(2) + 196350-02350

◢A

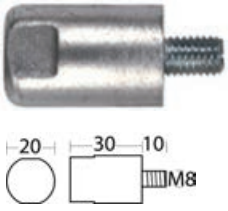
◢B

◢E

◢C

◢D

Circular anode

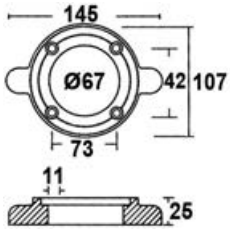


Code	Original ref.
43.542.00	27210-200300

Zinc kit for 6LP/6LY/4LH onboard engines

Code	Original ref.
43.544.05	119773-92600

Collar anode for Sail-Drive



Zinc	Original reference
43.544.03	19642002652

Openable anode leg

SD20 to SD60 engines.

Zinc	Aluminium	Magnesium	Original ref.
43.546.01	43.546.02	43.546.03	19644002660

TECNOSEAL

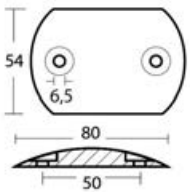
► Anodes for FLEXOFOLD propellers

Anodes for FLEXOFOLD propellers

Code	Description	⟷ mm	Orig. ref.
43.223.12	FLEXOFOLD ogive for 2/3/4-blade propellers up to 23"	Ø 69 x 37 (h)	#112
43.223.14	Pair of side anodes for 2-blade propeller	Ø 32 x 13 (h)	#114

► RENAULT MARINE anodes

Convex anode plate



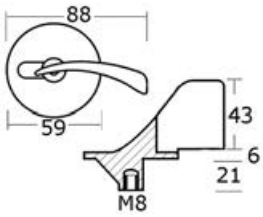
Code	Size mm	Centre distance mm	Weight
43.600.05	80x55	50	180 g

Cooling zinc plug

Code	Thread A	Ø mm	B mm
43.560.00	18x1.5	15x35	24
43.561.00	3/8" gas conical	11x40	17
43.562.00	16x1.5	11x33	17

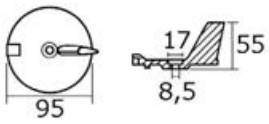
► SELVA anodes

Universal fin anode on round plate



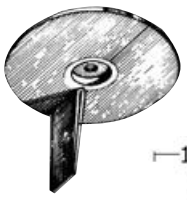
Code	Original ref.
43.020.00	2500050

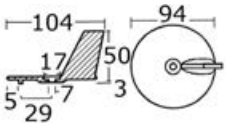
Anode 25/60 HP 4 strokes



Zinc	Aluminium	Magnesium	Ø mm
43.253.02	**43.253.03**	**43.253.04**	95

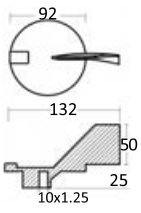
Fin anode for Manta/Barracuda outboards





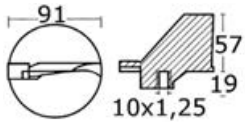
Zinc	Aluminium
43.256.00	**43.256.01**

Anode fin for 50/100 HP 4 strokes



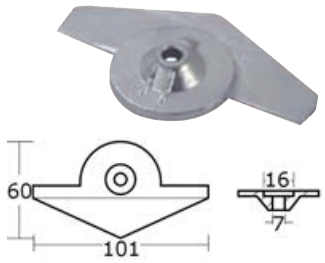
Zinc	Original ref.
43.269.00	67F-45371-00

Anode fin for 115 HP 4 strokes



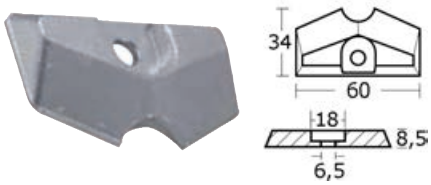
43.253.00 Made of zinc.

Anode for 9.9/15 HP 4 strokes.



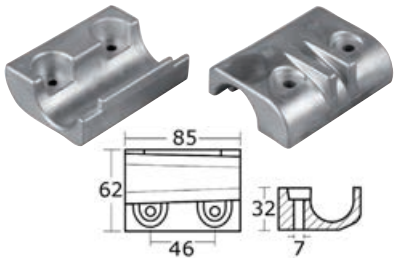
43.263.00 Made of zinc.

Anode 4 HP 4 strokes



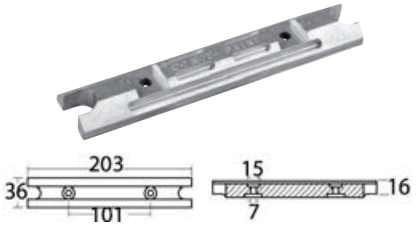
43.259.03 Made of zinc.

Anode for 40/50 HP 4-stroke outboard engines.



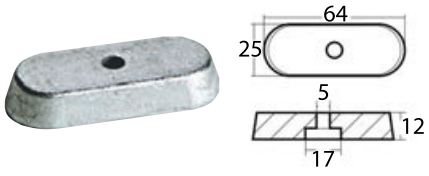
43.264.00 Made of zinc.

Anode rod for Selva 25/100HP



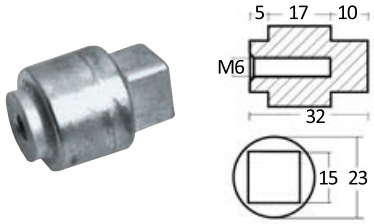
Zinc	Aluminium
43.254.10	43.254.11

Anode leg for Selva 6/8/9.9 HP 4 strokes



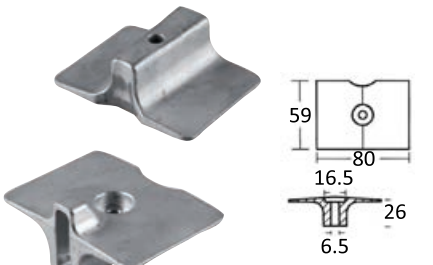
Zinc	Aluminium
43.260.04	43.260.24

Anode cylinder for Selva 80/200 HP



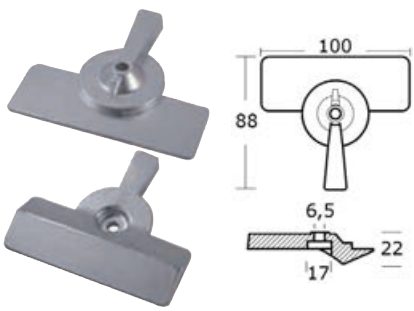
Code	Original reference
43.260.07	67F-11325-00

Anode for 8/30 HP Selva



Zinc	Aluminium	Original ref.
43.267.00	43.267.01	61N-4525101

Anode for 9.9 HP Selva

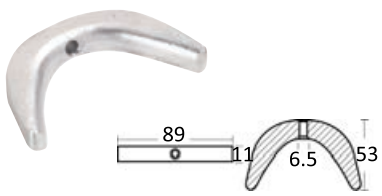


Code	Original ref.
43.266.00	6G8-4525101

"U" shape leg for 40/60 HP

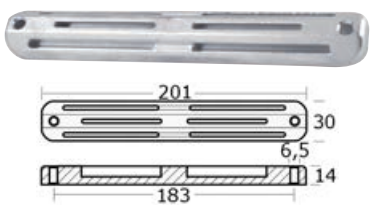
Code	Original ref.
43.031.00	2504020

"U" shape leg for 70/100 HP



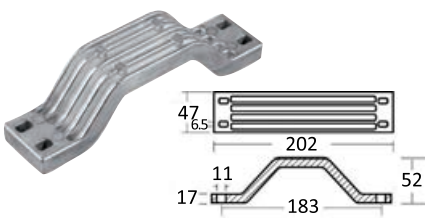
Code	Original ref.
43.032.00	2504025

Universal rod for 40/HP and over, 2 strokes



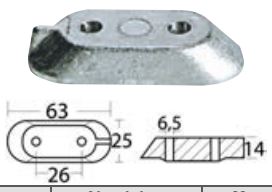
Code	Original reference
43.033.00	2504015

Anode support for 115 HP 4 strokes



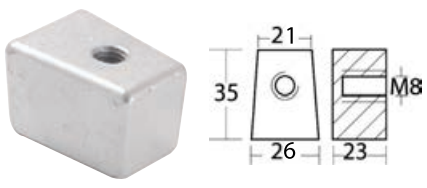
Zinc	Aluminium
43.254.00	43.254.01

Anode support for 4/70 HP 4 strokes



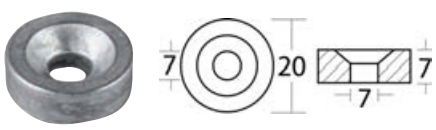
Zinc	Aluminium	Magnesium
43.260.03	43.188.53	43.188.54

Anode leg for 25/70 HP 4 strokes



Zinc	Aluminium	Magnesium
43.260.02	43.260.50	43.260.51

Washer for SELVA



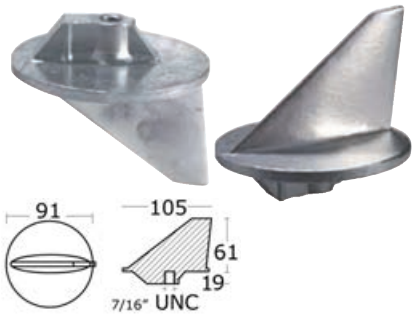
Zinc	Aluminium	Magnesium	Ø mm
43.823.91	43.823.92	43.823.93	20x7

TECNOSEAL

► HONDA anodes

HONDA

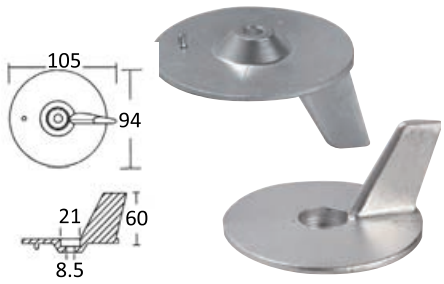
Anode fin



Original ref. N. 41107- ZW1-003ZA

Zinc	Aluminium	Magnesium
43.420.00	43.420.10	43.420.11

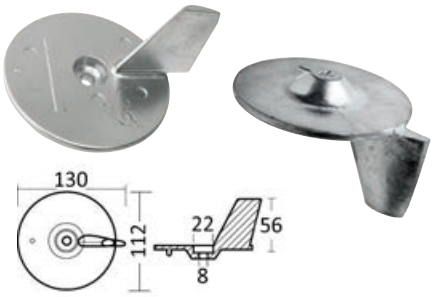
Anode fin for HP 25/35/45/50



Original ref. 06412-ZV5-000 / 41107-ZV-5-000.

Zinc	Aluminium	Magnesium
43.291.00	43.291.01	43.291.02

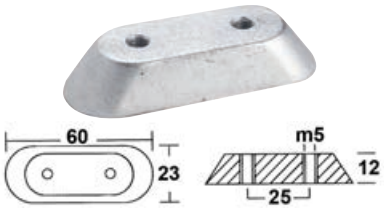
Fin anode for 75/225 HP



Original ref. 41107-ZW1-B01ZA, 113-mm Ø.

Zinc	Aluminium	Magnesium
43.291.50	43.291.51	43.291.52

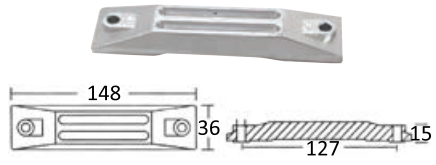
Anode plate for 8/20 HP



Original ref. 41106-935-812.

Zinc	Aluminium	Magnesium
43.315.20	43.314.98	43.314.97

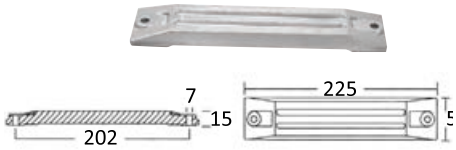
Anode plate for 35/50 HP



Original ref. 06411 - ZV5 - 000

Zinc	Aluminium	Magnesium
43.290.00	43.290.01	43.290.02

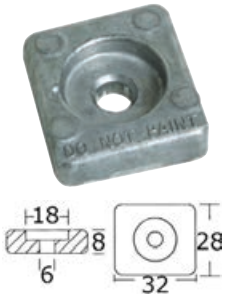
Anode plate for 75/225 HP



Original ref. 41106-ZW-000.

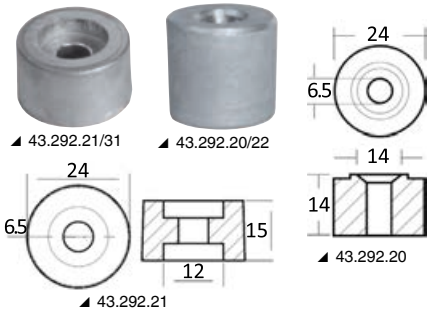
Zinc	Aluminium	Magnesium
43.424.07	43.424.04	43.423.98

Zinc anode for Honda 8/20 HP



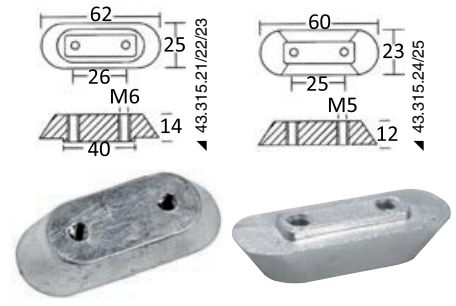
Zinc	Aluminium	Magnesium	Original reference
43.292.00	43.292.01	43.292.03	41106-ZW9-020

Collector anode

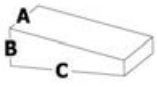


Zinc	Aluminium	HP	Original ref.
43.292.20	43.292.22	40/50/60	12155-ZV4-A00
43.292.21	43.292.31	75/90/130	12155-ZW5-000

Plate for HP 10/50



Zinc	Aluminium	Magnesium	Parametro4
43.315.21	43.315.22	43.315.23	41106-ZV4-650
-	43.315.24	43.315.25	41106-935-812



Anode plate

Zinc	Aluminium	Magnesium	Description	A mm	B mm	C mm	Original reference
43.424.05	43.424.08	43.424.09	Plate anode 75/130 HP	29	22	77	41109-ZW1-003 (leg AT)
43.293.00	43.293.01	43.293.02	Plate anode 75/225 HP	36	17	71	41109-ZW-1-B000

◢ 43.260.00/43.259.99/98

8/20 HP washer

Zinc	Aluminium	Magnesium	Ø mm	Original ref.
43.260.00	43.259.99	43.259.98	24x7	41106-ZW-000

◢ 43.291.60/61/62

◢ 43.291.65/66/67

Anode kit for Honda outboards

Zinc	Aluminium	Magnesium	Description	Content
43.291.65	43.291.66	43.291.67	Kit for 40/50 HP outboards	43.291.00 + 43.290.00 + 43.424.05 (2 pcs)
43.291.60	43.291.61	43.291.62	Kit for 75/225 HP outboards	43.291.50 + 43.424.07 + 43.293.00 (2 pcs)

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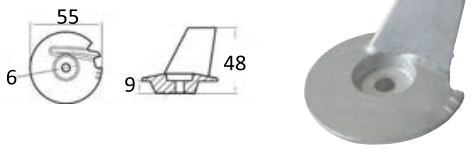
► Anodes for TOHATSU - NISSAN engines

TOHATSU Outboards

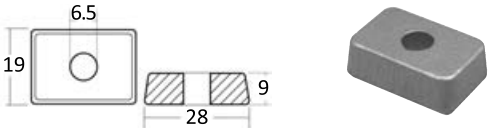
Fin anode series 140 for Tohatsu

Zinc	Aluminium	Magnesium	Orig. Ref.
43.640.10	43.640.11	43.640.12	3V1602170 8/20 HP - 4 strokes



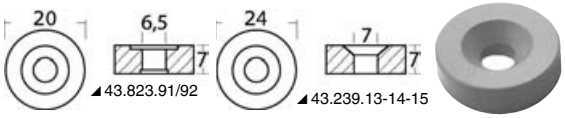
Single anode for Tohatsu

Zinc	Aluminium	Orig. Ref.
43.640.20	43.640.21	3H660218000 4/6 HP - 2/4 strokes

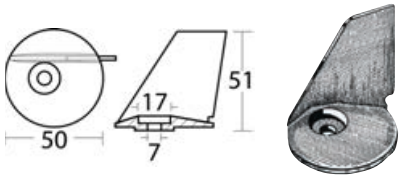


Washer for Tohatsu

Zinc	Aluminium	Magnesium	Ø mm	Orig. Ref.
43.239.13	43.239.14	43.239.15	24x7	369-60218-1
43.823.91	43.823.92	-	20x7	338-60218-2

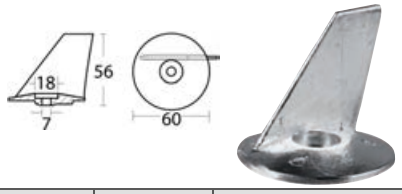


Fin for 35/40 HP



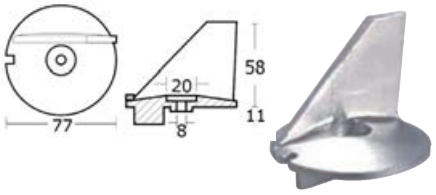
Code	Ø mm	Original ref.
43.640.01	50	338-60217-0

Anode fin for 25/30 HP and 40/50 HP Mega



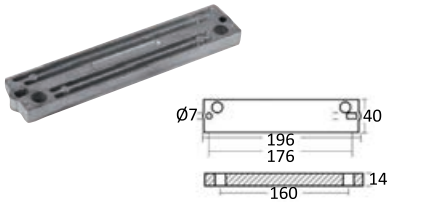
Code	Ø mm	Original ref.
43.640.02	59.5	3C8-60217-1

Anode fin for 60/70/140 HP



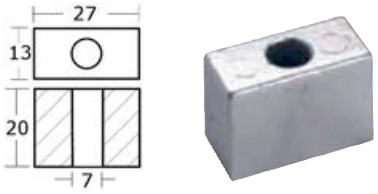
Code	Ø mm	Original reference
43.640.03	77	3B7-60217-0

Anode rod for 40/60/140 HP



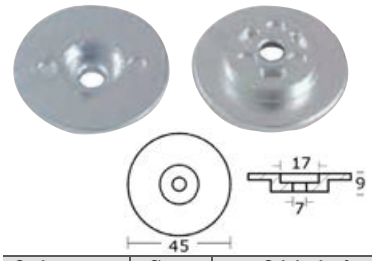
Zinc	Aluminium	Magnesium
43.640.04	43.640.14	43.640.17

Small anode for 9.9/15/18 HP



Code	Original reference
43.640.05	3B7-60218-1

Washer for 40/140 HP



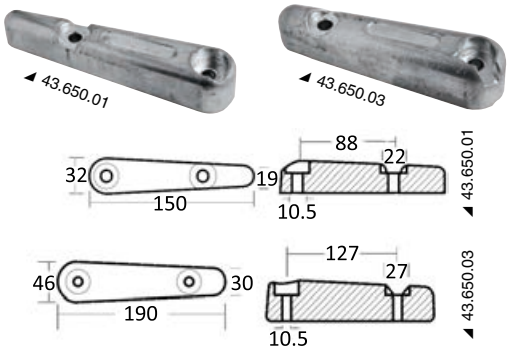
Code	Ø mm	Original reference
43.640.06	44	3M2-60218-1

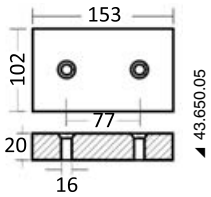
► ARNESON anodes

ARNESON BY TWIN D•C

Transmission anodes

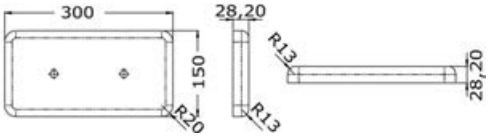
Code	kg
43.650.01	0.54
43.650.03	1.56
43.650.05	2





Anodes for bolt mounting

Code	Distance between hole centres mm	⟷ mm	kg
43.920.07	125	300x150	8



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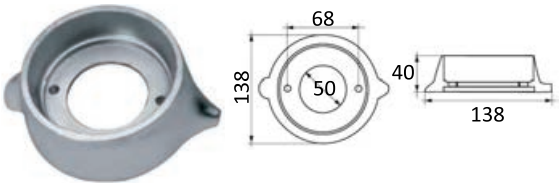
► BUKH anodes

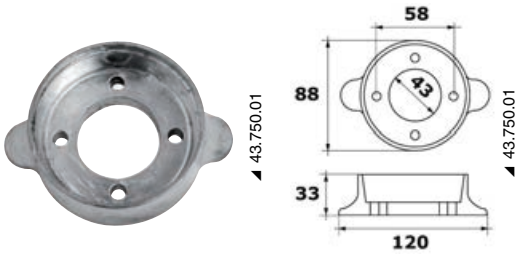


BUKH leg collar

For Saildrive DV10, DV20, DV36, DV48.

Code	Distance between hole centres mm	External Ø mm	Height mm	Width mm	Internal Ø mm	Original ref.
43.760.01	67	105	40	140	50	BOOE5829

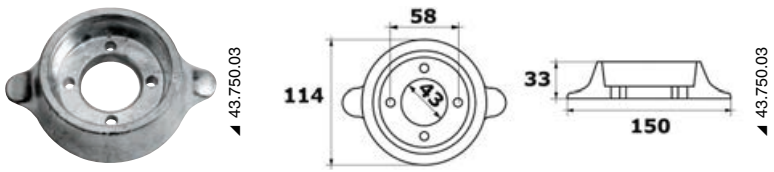
► LOMBARDINI anodes



LOMBARDINI leg collar

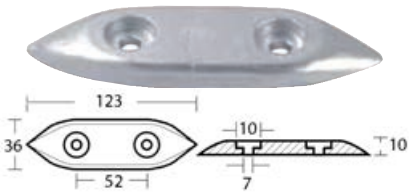
For Saildrive SVDM.

Code	Distance between hole centres mm	External Ø mm	Height mm	Width mm	Internal Ø mm	Original ref.
43.750.01	58	88	33	120	43	1301339
43.750.03	58	114	33	150	43	1301339



► Anodes

Universal anode

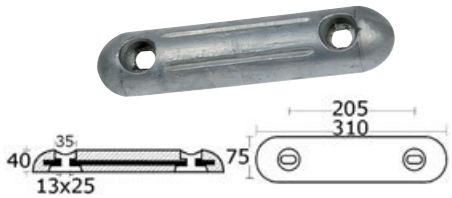


43.610.00 For Chrysler, Evinrude, Johnson or any outboard engine; for mounting on the anti-cavitation plate.

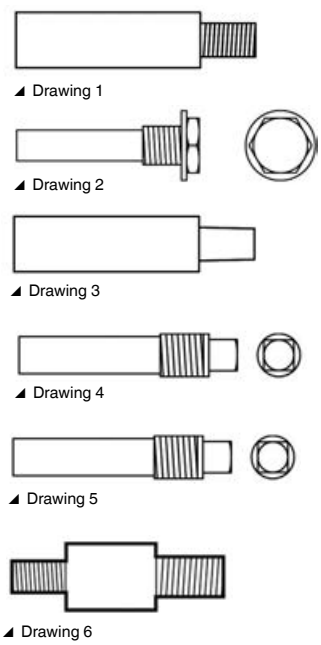
Plate anode

Code	⟷ AxBxH mm	kg
43.921.01	282x108x35	5.50

Bolting anode



Zinc	Aluminium	Magnesium
43.910.01	**43.910.11**	**43.910.21**

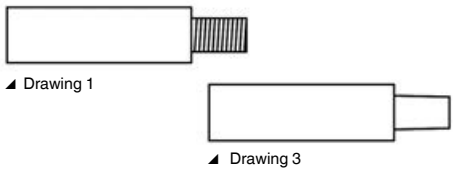


Heat exchanger sleeves

Threaded anode for cooling system:

Code	Ø x Length mm	Thread "	Engine	Drawing	Original Ref.
43.228.29	14x26+7	smooth Ø mm 12	Caterpillar	3	Serie 3208
43.228.30	10x55+12	1/4	Caterpillar	1	6L2283
43.229.13	9x35+11	1/4	Caterpillar	1	116-7011
43.228.00	12x40+10	3/8	Caterpillar/Bukh	1	6L-2280
43.228.70	16x51+13	3/8	Caterpillar	1	589651
43.228.80	16x65+13	3/8	Caterpillar	1	6L-2288
43.228.90	16x76+13	3/8	Caterpillar	1	6L-2289
43.228.91	14x32+12	5/16"	Caterpillar	1	6L-2284
43.228.92	22x20+11	5/8"	Caterpillar	1	6L-2016
43.229.08	10x38+10	7/16	Caterpillar	1	6L-3104
43.229.09	16x41+9	7/16	Caterpillar	1	7E-5076
43.229.11	12,5x38+10	7/16	Caterpillar	1	-
43.228.50	30x64+20	3/4	Caterpillar	1	-
43.229.02	14x20+10	M8	VM	1	-
43.229.03	14x40+10	M8	VM	1	-
43.229.14	14,5x36	M10+M12	VM	6	-
43.229.04*	10x17+9	16x1,5	Nanni/Mercedes	2	-
43.228.14	34x30+35	M8	Nanni/Mercedes	1	-
43.228.15	14x26+8	Smooth Ø mm	Nanni/Mercedes	3	-
43.228.16	26x25+10	Smooth Ø mm	Nanni/Mercedes	3	-
43.229.06*	8x30	1/4 gas	Isoterm	4	-
43.229.01	12x35+Vok	M5	Bukh	1	-
43.541.00*	10x40+18	3/8	Caterpillar	5	-
43.548.00*	16x52+22	1/2"	GM/Caterpillar	5	-
43.545.00*	20x80+29	3/4	GM	5	-

* *With brass head.*

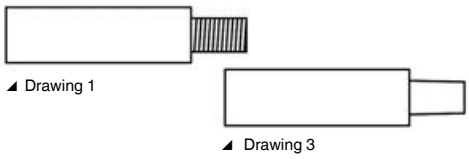


AIFO-FPT sleeves

Code	Ø x length mm	Thread	Motor	Drawing	Original ref.
43.229.05	14x26+8	smooth Ø mm 12	AIFO-FPT	3	8105277
43.229.07	13x26+7	smooth Ø mm 10	AIFO-FPT	3	8105277
43.229.20	20x20+11	smooth Ø mm 14	AIFO-FPT	3	8210m22/8101772
43.229.21	13x26+8	smooth Ø mm 10.1	AIFO-FPT	3	8105277/B
43.229.22	10x18+8	smooth Ø mm 7	AIFO-FPT	3	8109743
43.229.23	14x40+10	M8	AIFO-FPT	1	-

Cummins sleeves

Code	Ø x length mm	Thread	Engine	Drawing	Original ref.
43.229.10	16x50+10	7/16"	Cummins	1	-
43.229.25	18x65+15	mm 16x1.5	Cummins	1	-
43.229.26	16x31+13	3/8"	Cummins	1	-
43.229.27	10x20+8	M6	Cummins	1	-
43.229.28	16x50+10	smooth mm 15.5	Cummins	3	-

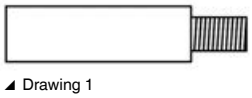


◢ Drawing 1

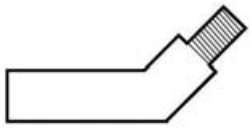
◢ Drawing 3

Yanmar sleeves

Code	Ø x length mm	Thread	Engine	Drawing	Original ref.
43.228.10	12x30+11	3/3	Yanmar	1	68241
43.229.30	21x40	M8	Yanmar	1	-
43.542.00	20x40	M8	Yanmar	1	-
43.229.32	20x20	M8	Yanmar	1	-
43.229.33	20x55	M8	Yanmar	1	-
43.229.34	20x68	M8	Yanmar	8	-
43.229.35	23x40	M8	Yanmar	1	-
43.229.36	40x40	M10	Yanmar	1	-
43.229.37	30x40	M8	Yanmar	1	-
43.229.38	20x37	M8	Yanmar	1	-
43.229.39	20x30	M8	Yanmar	1	-
43.229.40	12.5x32	3/8"	Yanmar	1	-
43.229.41	16x50+10	7/16"	Yanmar	1	-



◢ Drawing 1

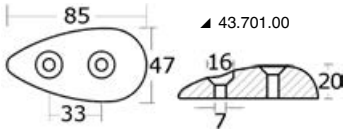


◢ Drawing 8

Soap shaped anode

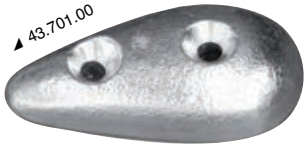
For rudders and flaps.

Code	⟷ mm	g
43.701.00	85x47x20(H)	300
43.702.00	146x40x22(H)	550



◢ 43.701.00

◢ 43.702.00



◢ 43.701.00

◢ 43.702.00

Standard rose anode for rudders

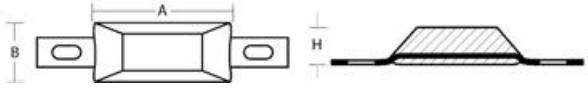
Sold **in pairs**, fitted with bolt and screw nut.

Code	Ø mm	Pair weight g	Type
43.598.99	50	90	light
43.599.00	50	200	heavy
43.600.00	70	300	light
43.600.01	70	450	heavy
43.605.00	90	500	light
43.605.01	90	890	heavy
43.605.02	110	1380	heavy
43.620.00	125	1350	heavy
43.630.00	190	6140	heavy

Rectangular anodes with insert

Made of **galvanized iron**, for **screw** mounting or for **welding**; hydrodynamic shape.

Code	⟷ mm			kg
	Length (A)	Width (B)	Height (H)	
43.907.01	95	34	17	0.25
43.907.02	95	40	25	0.5
43.907.03	128	62	28	1



◢ 43.907.01

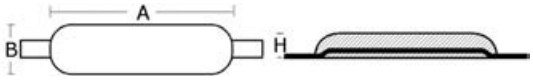
◢ 43.907.02

◢ 43.907.03

Rectangular anodes with insert

Made of galvanized iron to be welded.

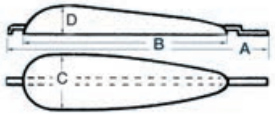
Code	⟷ mm			kg
	Length (A)	Width (B)	Height (H)	
43.907.06	215	90	30	3
43.907.07	300	80	40	5



Welding anodes

tapered, can be pierced and bolted.

Code	Version	A mm	B mm	C mm	D mm	kg
43.911.00	ZP - 2	430	280	98	48	5



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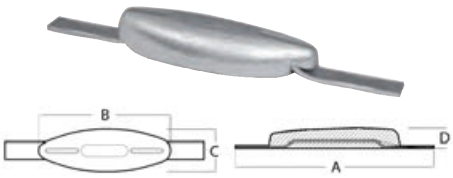
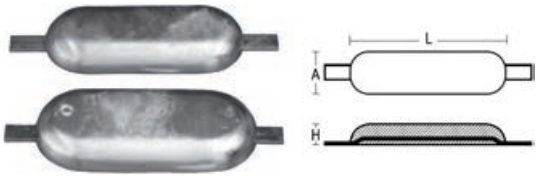


Welding anodes

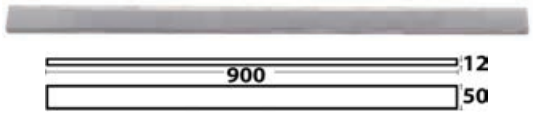
tapered, can be pierced and bolted.

Zinc	Aluminium	Version	A mm	B mm	C mm	D mm	Zinc kg	Aluminium kg
43.904.00	43.904.01	ZP - 0	210	120	40	22.5	0.5	0.2
43.905.00	43.905.11	ZP - 1	230	160	57	25	1	0.39
43.910.00	-	ZP - 3	250	135	87	35	2	-
43.905.01	-	ZF - 2	300	225	70	31	2.5	-



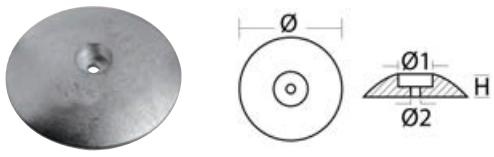
Magnesium anode to be welded

Code	Length (L) mm	Width (A) mm	Thickness (H) mm	Insert mm	kg
43.908.02	300	80	40	400x30	1.5
43.908.05	320	147	38	400x30	2.5
43.908.06	400	152	33	550x40	4



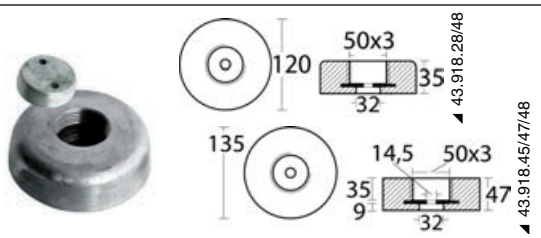
Aliscafi series magnesium anode

Code	⟷ mm	kg
43.908.10	900x45x12.5	0.85



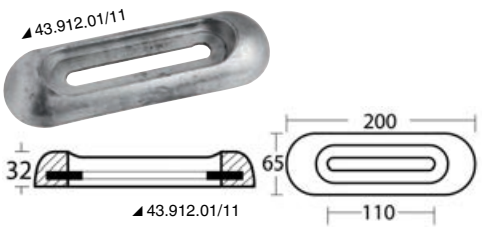
Heavy-duty rose anode, for bolt mounting

Zinc	Magnsium	Ø mm	Ø1 mm	Ø2 mm	H mm	Zinc kg	Magnesium kg
43.914.97	43.918.00	50	20	6.5	11	0.08	0.02
43.914.98	43.918.01	70	22	8.5	13	0.19	0.06
43.914.99	43.918.02	90	31	8.5	17	0.42	0.11
43.915.00	43.918.03	110	31	10.5	18	0.68	0.17
43.915.02	-	125	31	10.5	21	0.98	-
43.915.03	-	140	33	12.5	30	1.45	-



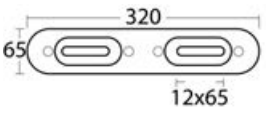
Hidden mounting anode

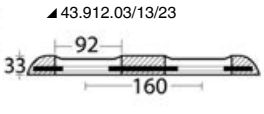
Code	Material	Base Ø mm	Height mm	kg
43.918.28	Zinc	120	35	2
43.918.48	Magnesium	120	35	0.55
43.918.45	Zinc	135	47	3.91
43.918.46	Aluminium	135	47	1.53
43.918.47	Magnesium	135	47	0.98

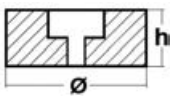


Anodes for bolt mounting

Zinc	Aluminium	Magnesium	⟷ mm	Zinc kg	Aluminium kg	Magnesium kg
43.912.01	43.912.11	-	200x65	1.3	0.65	-
43.912.03	43.912.13	43.912.23	320x65	2.2	1	0.7

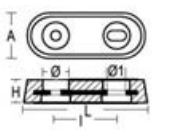






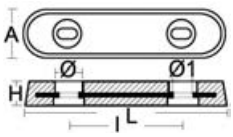
Stern anode

Zinc	Aluminium	Magnesium	Base Ø mm	Height mm	Zinc kg	Aluminium kg	Magnesium kg
43.210.01	43.510.11	43.210.21	100	40	1.96	0.77	0.51
43.210.02	43.210.12	43.210.22	125	38	2.7	1.10	0.75
43.210.03	43.210.13	43.210.23	140	35	3	1.3	0.83
43.210.05	43.210.15	-	120	40	1.88	0.74	-



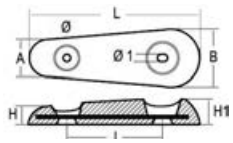
Vetus-type anode for rudder or flaps

Zinc	Aluminium	Magnesium	⟷ mm						Zinc kg	Aluminium kg	Magnesium kg
			L	A	H	I	Ø	Ø1			
43.901.99	-	-	100	44	18	48	25	10.5	0.30	-	-
43.902.00	43.902.20	43.902.30	150	60	25	80	27	11x15	1	0.55	0.25



Vetus-type anode with insert

Zinc	Aluminium	⟷ mm						Zinc kg	Aluminium kg
		L	A	H	I	Ø	Ø1		
43.902.01	43.902.21	247	63	30	140	32	13x25	2.30	1.07
43.902.11	-	290	53	33	200	32	13x25	2.70	-
43.902.02	43.902.22	350	68	36	200	38	13x25	4.50	1.76

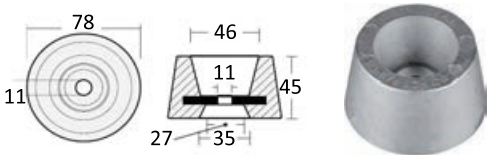


Vetus-tupe anode, edged version

Zinc	Aluminium	⟷ mm								Zinc kg	Aluminium kg
		L	A	H	I	Ø	Ø1	B	H1		
43.902.05	43.902.25	152	52	23	80	11	11x15	68	29	1	0.39
43.902.06	43.902.26	250	55	21	140	11	11x15	75	37	2.40	0.94

Circular anode, single-bolt mounting

Zinc	Aluminium	Ø mm	H mm	Zinc	Aluminium
				kg	kg
43.901.00	43.901.01	78	45	1.05	0.45



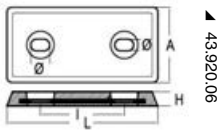
Bolting anodes

Fitted with rubber plate.

Code	mm					kg
	L	A	H	I	Ø	
43.920.01	147	65	22	70	13x35	1.2
43.920.02	151	69	26	75	13x35	1.5
43.920.03	200	80	22	110	13x35	2.5
43.920.04	210	100	32	110	19x25	4.18
43.920.06	300	160	28	160	17x25	8

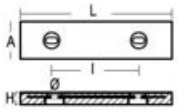
◢ 43.920.01

◢ 43.920.02



◢ 43.920.06

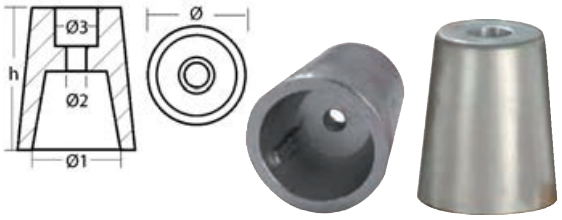
◢ 43.920.06



◢ 43.920.01/02/03/04

Axis line Radice anode

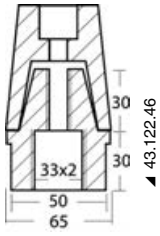
Code	Ø mm	Ø1 mm	Ø2 mm	Ø3 mm	h mm
43.225.00	33	25	6.5	11	39
43.230.00	42	31	8.5	13.5	53
43.235.00	46	37	8.5	13.5	62
43.240.00	51	42	8.5	16	68
43.245.00	61	48	11	22	76
43.250.00	72	57	11	22	84



Ogive shaft anodes with standard thread

Fitted with interchangeable zinc plate.

Code	Axis Ø mm	Thread mm	Spare zinc
43.122.20	20	16x1.5	43.225.00
43.122.25	25	18x1.5	43.225.00
43.122.30	30	20x1.5	43.230.00
43.122.35	35	24x2	43.235.00
43.122.40	40	26x2	43.240.00
43.122.45	45	30x2	43.245.00
43.122.46	45	33x2	43.245.00
43.122.50	50	36x3	43.250.00

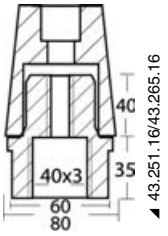


◢ 43.122.46

Propeller anodes, new Radice type from 1996

Fitted with inner **brass** hexagon with **zinc** anode.

anode with nut	only anode	Per axis Ø mm	Thread mm
43.251.01	43.265.01	20/22/25	16x1.5
43.251.02	43.265.02	30	20x1.5
43.251.03	43.265.03	35	24x2
43.251.04	43.265.04	40	24x2
43.251.05	43.265.05	45	33x2
43.251.06	43.265.06	50	36x3
43.251.16	43.265.16	55	40x3
43.251.07	43.265.07	60	45x3



◢ 43.251.16/43.265.16

Olive shape propeller shaft

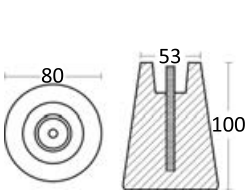
Fitted with stainless steel pins and nuts.

Zinc	Hole		Zinc	Hole	
	mm	inches		mm	inches
43.800.19	19	3/4"	43.800.45	45	-
43.800.22	22	7/8"	43.800.50	50	-
43.800.25	25	-	43.800.51	51	2"
43.800.26	25.4	1"	43.800.55	55	-
43.800.28	28.6	1" 1/8	43.800.57	57.15	2" 1/4
43.800.30	30	1	43.800.60	60	-
43.800.32	31.8	1"1/4	43.800.63	63	2" 1/2
43.800.35	35	1"3/8	43.800.65	65	-
43.800.38	38	1"1/2	43.800.70	70	-
43.800.40	40	-	43.800.75	75	-
43.800.44	44	1" 3/4	43.800.80	80	-

Anchoring anode

With fastening cable.

Code	kg
43.005.01	2.5



Low olive shapes for propeller shafts

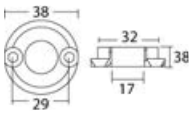
For sail boats with confined spaces, **fitted with stainless steel pins and nuts**.

Zinc	Hole		Thickness
	mm	inches	mm
43.801.20	19	3/4"	14
43.801.22	22	7/8"	14
43.801.25	25	-	14
43.801.26	25.4	1"	-
43.801.30	30	-	15
43.801.32	31.8	1" 1/4	-
43.801.35	35	1"3/8	20
43.801.38	38	1" 1/2	-
43.801.40	40	-	20
43.801.45	45	-	30
43.801.50	50	-	30
43.801.55	55	-	30
43.801.60	60	-	30
43.801.65	65	-	30
43.801.70	70	2"3/4	30

Spare anodes for Vetus bow/stern propellers

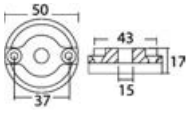
Code	Type of propeller	Ref Vetus
43.070.02	BOW 25	0148
43.070.04	BOW 35/55	0149
43.070.06	BOW 75/80/95	0150
43.070.08	BOW 125/133/160	0151
43.070.10	BOW 220	0152
43.070.12	BOW 23A/50/80 + stern propellers	0153
43.070.13	DADO ELICA	-

◢ 43.070.02



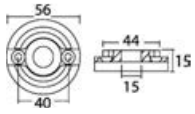
◢ 43.070.02

◢ 43.070.04



◢ 43.070.04

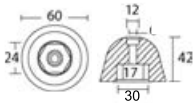
◢ 43.070.06



◢ 43.070.06

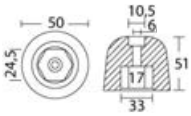
◢ 43.070.13

◢ 43.070.08



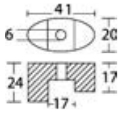
◢ 43.070.08

◢ 43.070.10



◢ 43.070.10

◢ 43.070.12



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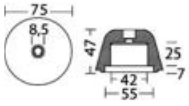
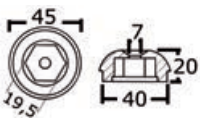


◢ 43.070.13

◢ 43.070.22/23

◢ 43.070.22/23

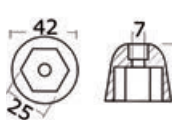
◢ 43.070.20/21



◢ 43.070.22/23

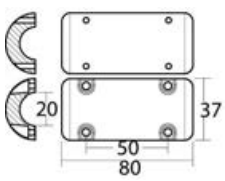
Spare anodes for Side-Power (Sleipner) bow/stern propellers

Zinc	Aluminium	Orig. Ref.	Type of propeller/engines
43.070.20	**43.070.21**	61180	SP-SE 30/40
43.070.22	**43.070.23**	71190/51180	SP55S/75T/95T, SE60/185S, SE80/185T/SE100
43.070.24	-	101180	SP125T/285STC/SE120-150/SP220-300HYD/SH160
-	**43.070.25**	140629	SR80/100/130/170/210/240
43.070.27	**43.070.28**	501180	-
43.070.29	**43.070.30**	31180	-
43.070.31	**43.070.32**	201180	-
43.070.33	**43.070.34**	02481	-



◢ 43.070.24

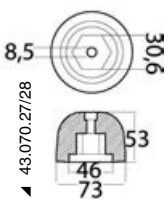
◢ 43.070.25



◢ 43.070.25

◢ 43.070.27/28

◢ 43.070.27/28

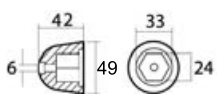


◢ 43.070.27/28

◢ 43.070.29/30

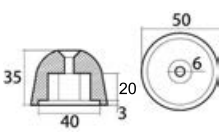
◢ 43.070.29/30

◢ 43.070.31/32

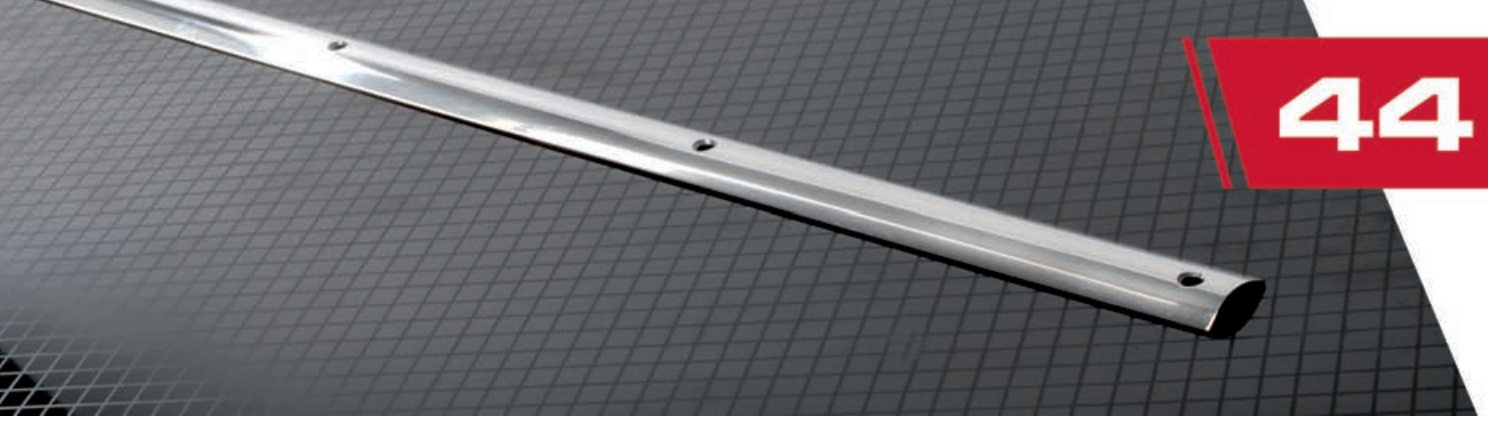


◢ 43.070.31-32

◢ 43.070.33/34



◢ 43.070.33/34



► Fender profiles made of stainless steel and PVC bases

Low profile D-section rubbing strake made of mirror polished AISI 316 stainless steel

AISI 316 **Fitted with flared holes.**

Code	A mm	B mm	Weight g/m	Rods m	Bore centre distance mm	Bore Ø mm	Countersink Ø mm	OPTIONAL base	OPTIONAL end cap
44.480.11	15	5	500	3	185	4.25	7.5	**44.480.16**	-
44.480.12	18	5.3	600	3	185	4.25	8	**44.480.17**	44.484.18
44.480.13	21	5.5	700	3	185	4.25	8	**44.480.18**	44.484.20
44.480.14	25	7	980	3	185	4.25	8	**44.480.19**	44.484.28
44.480.06	25	10	1463	4	120	4.25	7.5	**44.480.19**	-
44.480.15	30	9	1300	3	185	5.25	10	**44.480.21**	-
44.480.05	38	15	3330	4	120	5.25	10	**-**	-
44.480.03	38	9.5	2100	3	185	5.25	10	**44.480.22**	-

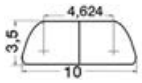
Minimum order of 12 meters

Semi-round profile made of mirror polished AISI 316 stainless steel

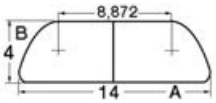
AISI 316 **Already drilled and flared.**

Code	Length (A) mm	Height (B) mm	Rods m	Weight g/m	Bore centre distance mm	Bore Ø mm	Countersink Ø mm
44.479.10	10	3.5	3	250	185	3.5	5.75
44.479.15	14	4	3	410	185	4.25	7.5
44.479.20	20	4	3	780	185	4.25	8

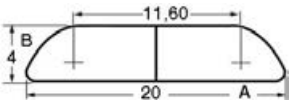
Minimum order of 12 meters.



◢ 44.479.10



◢ 44.479.15



◢ 44.479.20

Rubbing strake made of mirror polished stainless steel

AISI 316 C-shaped profile, pre-drilled and faireds; sold in 3-meter bars.

Code	A mm	B mm	S mm	Rod m	Inter-holes mm	Base OPTIONAL	Terminal OPTIONAL
44.480.20	20	4.6	1.5	3	200	44.480.33-35	44.484.20
44.480.30	28	7	1.5	3	200	44.480.36	44.484.28
44.480.38	35	9	1.5	3	200	44.480.37	-

Minimum order of 12 meters.

Heavy duty base for rubbing strakes

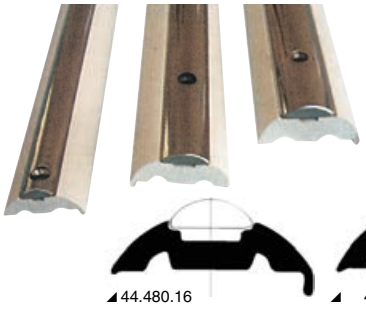
Made of **white PVC**, fitted with cover strip.

Code	A mm	B mm	To combine with profiles	Roll m
44.480.33	36	15	44.480.20	24

Fender terminals for C-shaped and almond-shaped profiles

AISI 316 Flush and perfectly combining with the corresponding rubbing strakes.
Mirror polished AISI 316 stainless steel.

Code	For profiles	
	S.S.	PVC
44.484.18	44.480.12	44.480.17
44.484.20	44.480.20; 44.480.13	44.480.35; 44.480.18
44.484.28	44.480.30; 44.480.14	44.480.36; 44.480.19

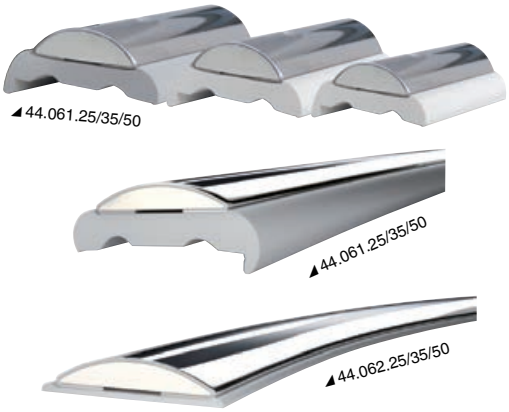


Base for stainless steel rubbing strakes

Made of semi-rigid **white PVC**, available in 24 meter coils.

Code	Height mm	S.S. profile cross section mm	To combine with OPTIONAL profile	Roll m
44.480.16	30	15x5	**44.480.11**	24
44.480.17	35	18x5	**44.480.12**	24
44.480.18	40	21x5,5	**44.480.13**	24
44.480.19	45	25x7	**44.480.14**	24
44.480.21	50	30x9	**44.480.15**	24
44.480.22	60	40x8	-	24
44.480.35	45	20x5	**44.480.20**	24
44.480.36	46	28x7	**44.480.30**	24
44.480.37	47	35x9	**44.480.38**	24

TESSILMARE

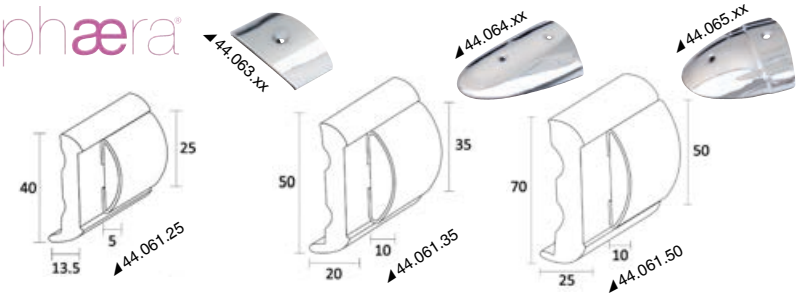


SPHAERA fender profile

PATENT

AISI316 stainless steel fender profile with DURALENE PVC inner core.
It adapts either on a Standard or Slim base. 3-m profiles for junction with top cap.
Advantages:
- It facilitates bending.
- Lightweight.
- High shock resistance.

sphæra

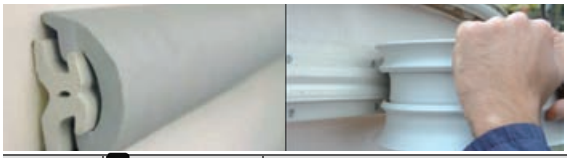


Model	3-m SS bar	Standard white base	Slim white base	SS top cap	SS end cap	
					Standard	Slim
SPHAERA 25	**44.060.25**	**44.061.25****	**44.062.25****	**44.063.25**	**44.065.25**	**44.064.25**
SPHAERA 35	**44.060.35**	**44.061.35****	**44.062.35****	**44.063.35**	**44.065.35**	**44.064.35**
SPHAERA 50	**44.060.50**	**44.061.50****	**44.062.50***	**44.063.50**	**44.065.50**	**44.064.50**

* *12-m roll*
** *24-m roll*

► PVC and anodized aluminium rubbing strakes

TESSILMARE RADIAL



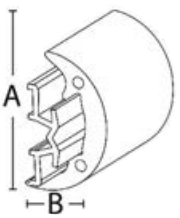
RADIAL fender profile

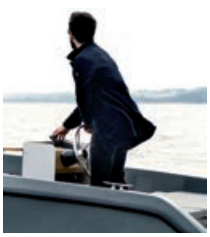
PATENT

Invisible **rigid** base, designed to be screwed/riveted onto the hull, **2-m** slugs; **semirigid** external profile with easy **pressure** installation (no weld required), available in **24-metre** rolls. Caution: tray and insert are separated and ahve to be mounted to make the profile complete.

Model	Black cable tray, only	Only PVC colour			⟷ mm		Minumum bend radius mm	Terminals		SS joint cover
		white	grey	black	height A	overhang B		white	SS	
RADIAL 30	**44.032.05**	**44.032.02**	**44.032.03**	**44.032.04**	30	17	50	**44.030.01**	**44.484.00**	-
RADIAL 40	**44.042.05**	**44.042.02**	**44.042.03**	**44.042.04**	40	21	60	-	**44.484.01**	**44.042.15**
RADIAL 52	**44.052.05**	**44.052.02**	**44.052.03**	**44.052.04**	52	29	70	**44.055.01**	**44.484.02**	**44.042.16**
RADIAL 65	**44.065.05**	**44.065.02**	**44.065.03**	**44.065.04**	65	29	80	**44.055.01**	**44.484.03**	**44.042.17**
RADIAL 80	**44.080.05**	**44.080.02**	**44.080.03**	**44.080.04**	33	33	100	-	**44.484.04**	**44.042.18**

minimum order of 24 metres





BINO fender profile

TESSILMARE

PATENT

Made of PVC, it consists of 2 interlocking parts + a SS profile for fixing (only 65 and 90 models). Cold mounting.
Bino 40 is extremely flexible and for two-axis small curvatures. Bino 65 and 90 provides high protection for heavy vessels, workboats, military boats, and anywhere easy installation is required.

Model	Black	Grey	⟷ mm		Roll m	End caps			SS fixing profile (optional)
			height A	overhang B		black	grey	SS	
BINO 40	**44.045.00**	**44.046.00**	40	22	12	**44.045.94**	**44.046.94**	**44.045.84**	-
BINO 65	**44.045.01**	**44.046.01**	65	37	12	**44.045.95**	**44.046.95**	-	**44.047.01***
BINO 90	**44.045.03**	**44.046.03**	90	53	12	**44.045.96**	**44.046.96**	-	**44.047.01***

* **44.047.01** *2-m bars*

bino40

◢ 44.046.00

◢ 44.045.01/03

bino65 bino90

◢ 44.046.01/03

◢ Terminals

Rubbing strake made of rigid durable plastic, fitted with flexible PVC insert

Unbreakable, flexible without puckering, low cost; **white bar base 4 meters** long, **PVC** profile, available in **20 meter** rolls. Caution: base and fender extrusion are sold separately but have to be mounted together to make the complete profile.

Minimum order: 20 metres per model.

Version	Cable tray colorr only		Only PVC insert colour			Cable tray height mm	Cover protrusion mm	White terminal model	White cover
	white	grey	white	grey	black				
A	**44.030.05**	-	**44.030.40**	**44.030.50**	**44.030.60**	30	5	**44.030.01**	**44.042.21**
B	**44.038.05**	**44.038.07**	**44.038.40**	-	-	38	6	**44.040.01**	**44.042.26**
C	**44.040.05**	-	**44.040.40**	**44.040.50**	**44.040.60**	40	5	**44.040.01**	**44.042.27**
D	**44.055.05**	-	**44.055.40**	**44.055.50**	**44.055.60**	55	5	**44.055.01**	**44.042.22**

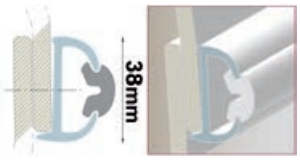
◢ 44.030.01

◢ 44.040.01

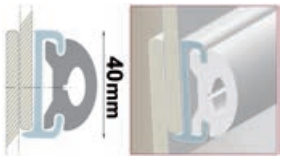
◢ 44.055.01

◢ A

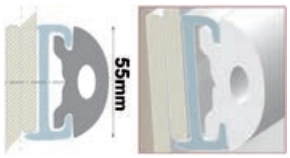
◢ B



◢ C



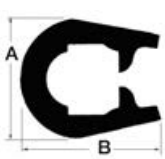
◢ D



Fender for boat mounting with leap seal

Made of PVC; to be mounted only on one end, available in 24 meter coils.

Color		A mm	B mm	Terminal OPTIONAL	
white	black			black	white
44.478.00	**44.482.00**	18	26	**44.482.03**	-
44.478.01	**44.482.01**	30	38	**44.488.01**	**44.588.01**
44.478.02	**44.482.02**	37	45	**44.482.04**	-

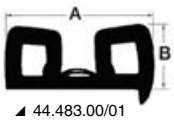


PVC rubbing strake suitable for boats with boxed joint

Made of **black PVC**, fitted with semi-rigid **PVC** insert and white screw cover; snap-in insert mounting; built-in strip cover.

Code	A mm	B mm	Terminal	Roll m
44.483.00	44	18	**44.483.02**	24
44.483.01	55	21	**44.483.03**	24

◢ 44.483.02/03



◢ 44.483.00/01

◢ 44.483.00/01

Bumper fenders with anodised aluminium base

Fitted with **flexible PVC** fender inserts, available in various colours; to be used with plastic terminals in table below; base sold in 3 to 6 metre lengths.
Minimum order of 24 metres.

Aluminium profile only	H mm	A mm	PVC insert in 24-m reels			Matching terminals			
			Black	White	Grey	Black plastic	White plastic	Chromed brass	Stainless steel
44.485.10*	38	9+5	**44.485.11; 44.485.14****	**44.485.12; 44.485.15****	**44.485.13; 44.485.16****	**44.479.03**	**44.579.03**	**44.485.01**	**44.484.01**
44.485.26*	25	7+5	**44.485.27**	-	-	**44.479.04**	-	-	-
44.485.65*	63	15+6	**44.485.66**	-	-	-	-	-	**44.485.64**
44.486.10*	56	14+5	**44.486.11**	**44.486.12**	**44.486.13**	**44.486.01**	**44.586.01**	-	**44.484.02**
44.487.10	56	14	**44.486.11**	**44.486.12**	**44.486.13**	**44.486.01**	**44.586.01**	-	**44.484.02**
44.494.10*	75	15+5	**44.494.11**	**44.494.12**	-	**44.494.01**	**44.594.01**	-	-

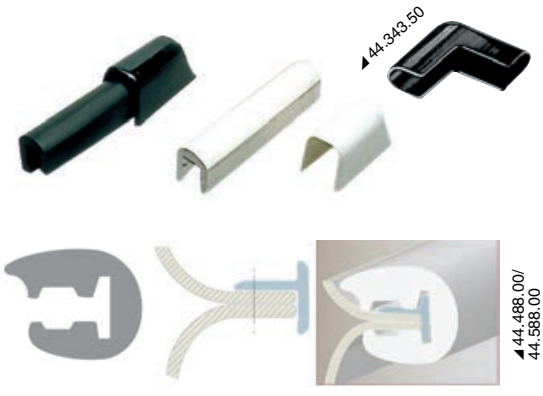
* *Fitted with cover strip teeth*

** *Profile overside*

Fender profile with "L" shape base support

Flexible PVC profile fitted with semi-rigid PVC support; it may be bent in any position; ideal for boats with leap seals; available in 24 meter coils; **minimum order of 24 meters per model**.

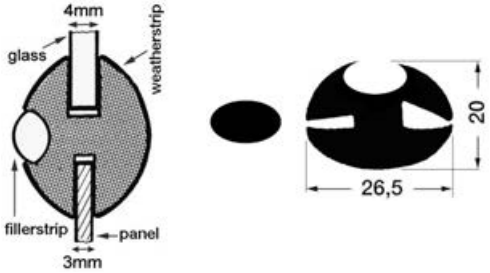
Code	Colour	Protrusion mm	Height mm	Core mm	OPTIONAL terminals	90° angle terminals OPTIONAL
44.488.00	Black	33	30	18x18	**44.488.01**	**44.343.50**
44.588.00	White	33	30	18x18	**44.588.01**	-
44.488.45	Black	36	38	22x22	**44.488.46**	-



Fender terminal made of mirror polished AISI 316 stainless steel

Code	For profiles	⟷ mm
44.484.01	44.485.10; 44.042.xx	40 (L) x 22 (H)
44.484.02	44.486.10; 44.487.10	56.5 (L) x 30 (H)

► Profiles, gaskets and wireways



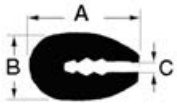
Porthole sealing profiles

Made of salt-resistant **black PVC**, suitable for sealing portholes.

Code	⟷ mm	Roll m
44.481.00	26.5x20	24

Profile designed for trimming reinforced fiberglass, wood or metal

Made of **PVC** 55 shore.



white	black	⟷ mm			Suitable for tickness mm	Roll m
		A	B	C		
44.492.01	**44.492.00**	17	10	3.5	3/4	24

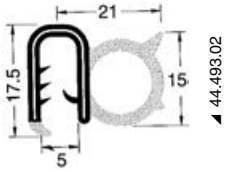
Profile designed for trimming reinforced fiberglass and other materials

Made of semi-flexible **reinforced PVC**.

white	black	Suitable for tickness	A mm	B mm	Roll m
44.491.01	**44.491.00**	1.5 - 4	14	10	50
44.491.05	**44.491.04**	4 - 6	16.5	10.5	50

Profiles suitable for beading fibreglass

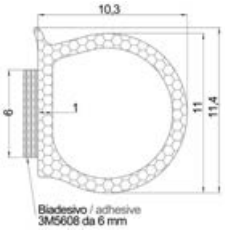
Made of flexible **reinforced PVC**, fitted with waterproof neoprene foam seal; ideal for lockers, engine cases, etc.



Code	Color	For thickness mm	Roll m
44.493.00	Black	2-4	50
44.493.02	Black	4-5	50

Self-adhesive profiles

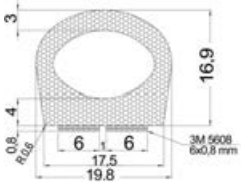
Perfect solution for sealing. Ideal use door, engine box, locker, hatch.
High quality **3M** adhesive tape.

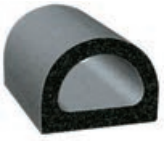


Code	Color	Material	Roll m
44.490.01	Black	EPDM	25

Self-adhesive rubber profile

Perfect solution for sealing. Ideal use door, engine box, locker, hatch.
High quality **3M** adhesive tape.

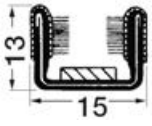




Code	Colour	Material	Roll m
44.490.02	Black	EPDM	25
44.490.12	White	TPV	25

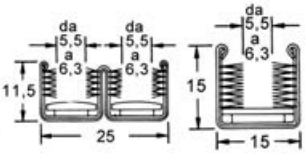
Black one-way semirigid reinforced groove

44.489.00 Suitable for sliding glasses, available in 10-metre coils, for glass sizes 4/6 mm.



STAND-PRO weather-resistant guide profiles for sliding glass panes

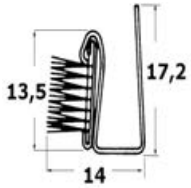
AISI 316 stainless steel profile, anti-friction high density polyethylene bottom, neoprene intermediate bearing and vibration dampening felt, screw mounting with the profile; side anti-sliding and vibration-dampening synthetic brushes made of UV resistant material.



Code	For glass thickness mm	Rod length m	Track	Width mm	Height mm
44.751.19	5/6,5	2.44	single	15	15
44.751.20	5/6,5	2.44	double	25	11.5

Anti-draught guide

Designed to seal sides against draught between two glasses, made of **AISI 316 stainless steel**.

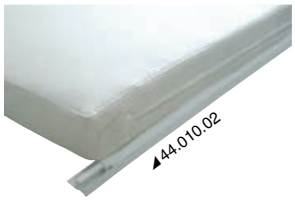


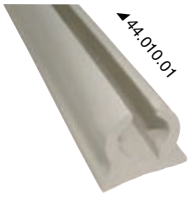
Code	Height mm	Width mm	Rod length m
44.751.18	17.2	14	2.44

Stainless steel hook

Fitted with universal swivelling joint.

Code	ORDER BY BOX
44.473.00	10

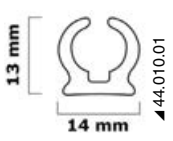


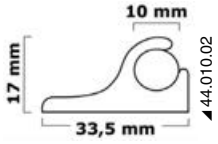


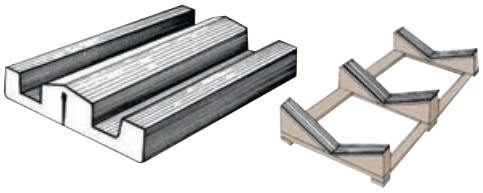
Wireway designed for mounting boat awnings, canopies and cushions using an insert

Boat awnings, canopies and cushions are fastened by means of a relinga insert.

Code	Description	Package	Roll
44.010.01	Tray in **white semirigid PVC** for hoods and bimini tops	4 m	-
44.010.02	Tray in **white semirigid PVC** for cushions	4 m	-
44.010.03	6.5-mm Ø soft PVC rod for insert. To be sewn into fabric.	-	60 m







Profile designed for beading boat protection cradles

Made of **flexible PVC**. Grey colour.

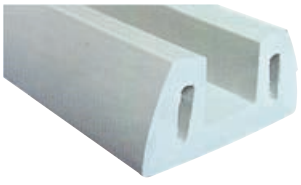
Code	Width mm	Height mm	Roll m
44.756.85	73	16	24

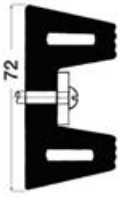
► Marina Fenders

Fendering for marinas, quays and piles

Made of flexible **black PVC**.
Also suitable as bumper fendering for fishing vessels.

Code	Cut-down size m	⟷ mm
44.020.00	2	70 base x 70 projection





Profiles designed to protect wharfs, quay and mooring poles

Made of flexible **gray PVC.**

Code	Cross section mm	Rod m
44.021.00	72x30h	2

► Steering wheels

Delfino Steering wheels

Anodized aluminium spokes, soft TANEGUM UV resistant crown, universal central hub.

Code	Crown	External Ø mm
45.158.10	Black	310

Manta Steering wheels

◢45.157.97

◢45.157.98

Anodized aluminium spokes and soft polyurethane crown.

Code	Crown	Spokes	Crown Ø mm
45.157.97	White	Silver	355
45.157.98	Black	Black	355

Black plastic steering wheel

Fitted with 3 spokes, crown Ø 320 mm.

Code	Color
45.150.00	Black

Steering wheels fitted with anatomically designed hand grip

◢45.158.05

◢45.158.06

Fitted with 3 spokes, central hub with universal cone, external Ø 355 mm.

Code	Colour
45.158.05	Black
45.158.06	White

Technic series steering wheels

◢45.163.01

◢45.163.02

◢45.163.03

Central hub fitted with universal cone, anodized aluminium spokes, soft polyurethane crown.

Code	Soft wheel	Spokes	External Ø mm
45.163.01	- Root coated	Black	350
45.163.02	- Carbon coated	Silver	350
45.163.03	Black	Silver	350

Technic series steering wheels

Fitted with mirror polished stainless steel spokes, hub and soft polyurethane crown.

Code	Crown	Inserts	Ø mm
45.163.26	Black	Root coated	350

◢ 45.158.40

◢ 45.158.41

Skipper steering wheels

Made of soft polyurethane with silver color spokes and chromed cao.
Equipped with universal central hub.

Code	Crown	Spokes	Ø mm
45.158.40	Black	Silver	350
45.158.41	Black + silver	Silver	350

Pegaso steering wheels

Soft polyurethane crown, mirror-polished stainless steel spokes and central hub.
Universal cone.

Code	Crown	Spokes	Ø mm
45.158.45	Black	SS	300

◢ 45.158.30

◢ 45.158.31

Baltic steering wheels

Made of soft polyurethane, glazed + chromed aluminium spokes.
Fitted with universal central hub.

Code	Crown	Spokes	Ø mm
45.158.30	Black	chrome + silver aluminium	320
45.158.31	White	chrome + silver aluminium	320

◢ 45.138.01

◢ 45.138.02

Tender steering wheel

Mirror-polished stainless steel spokes. Soft polyurethane crown. Universal cone hub.

Code	Crown	Spokes	Ø mm
45.138.01	black	polished SS	300
45.138.02	grey	polished SS	300
45.138.03	white	polished SS	300

◢ 45.138.03

Mahogany steering wheel

Fitted with polyurethane-coated **mahogany** crown and **black** spokes.

Code	Ø mm
45.158.07	355

Mahogany polyurethane lacquered steering wheel

Fitted with mirror polished **stainless steel** spokes and hub; universal central hub cone, steering wheel central adjustment.

Code	Ø mm
45.160.00	350

Polyurethane steering wheels

Made of **stainless steel**, fitted with external **soft polyurethane** crown, **universal** cone: Ultraflex, Morse and Teleflex.

Code	Crown colour	Ø mm
45.139.33	Black	340
45.139.40	Black	400

Steering wheels with stainless steel spokes

Universal cone Ultraflex/Morse/Teleflex.

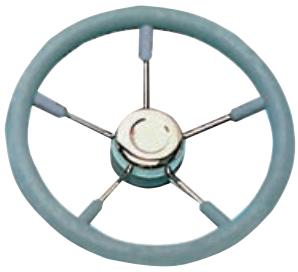
Ø mm			Color
320	350	400	
-	**45.130.35**	-	Carbon coated
-	**45.132.35**	-	Root coated
45.133.32	**45.133.35**	-	White soft polyurethane
45.131.32	**45.131.35**	**45.131.40**	Grey soft polyurethane
45.129.32	**45.129.35**	**45.129.40**	Black soft polyurethane

◢ 45.132.35

◢ 45.130.35

◢ 45.129.32/35/40

◢ 45.133.32/35


◢ 45.131.32/35/40

Soft polyurethane steering wheels fitted with stainless steel spokes

Universal cone Ultraflex/Morse/Teleflex.

white	cream	grey	black	Ø mm	Suitable for
45.128.03	**45.128.04**	**45.128.02**	**45.128.01**	350	-
45.127.03	-	**45.127.02**	**45.127.01**	280	Tenders

◢ 45.128.04

◢ 45.128.03; 45.127.03

◢ 45.128.02; 45.127.02

◢ 45.128.01; 45.127.01

Mirror polished SS steering wheels

Central hub with universal cone, **adjustable** to allow **centering** the steering wheel. Diameter: 350mm.

Code	Crown	Color
45.171.35	Leather effect (polyurethane)	black
45.172.35	Leather effect (polyurethane)	grey
45.173.35	Leather effect (polyurethane)	white
45.173.36	Leather effect (polyurethane)	cream
45.174.35	Wood with polyurethane lacquer	mahogany

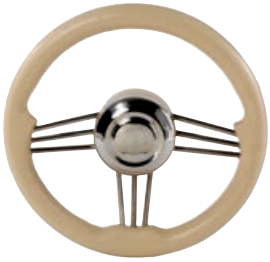
Code	Crown	Color
45.176.35	Polished stainless steel	stainless steel
45.175.35	Soft carbon effect polyurethane	black
45.152.01*	Polyurethane	black
45.152.02*	Polyurethane	grey
45.152.05*	Mahogany	mahogany

* *Without helm position gauge*

◢ 45.171.35

◢ 45.172.35

◢ 45.173.35


◢ 45.173.36

◢ 45.174.35

◢ 45.175.35

◢ 45.176.35

◢ 45.152.01

◢ 45.152.02

◢ 45.152.05

Apollo steering wheel

Polished stainless steel frame. Universal cone.

Code	Ø mm	Rim	Rim colour
45.178.11	350	Soft polyurethane	Black
45.178.12	350	Soft polyurethane	Grey
45.178.13	350	Soft polyurethane	White
45.178.17	350	Soft polyurethane	Ivory

◢ 45.178.11

◢ 45.178.12

◢ 45.178.17

◢ 45.178.13

Bliz steering wheel

Polished stainless steel frame, universal cone.

Code	Ø mm	Crown	Finish
45.169.00*	350	SS	Polished
45.169.01**	350	Soft polyurethane	Black
45.169.02**	350	Soft polyurethane	Grey
45.169.03**	350	Soft polyurethane	White
45.169.04	350	Matt wood	Teak
45.169.05	350	Matt wood	Mahogany
45.169.06	350	Carbon	Carbon look

* *Anatomic handle*

** *Leather-like finish with internal seam*

◢ 45.169.00

◢ 45.169.01

◢ 45.169.02

◢ 45.169.03

◢ 45.169.04

◢ 45.169.05

◢ 45.169.06

Steering wheels with stainless steel spokes

Universal cone Ultraflex/Morse/Teleflex.

Code	Ø mm	Crown	Wheel color
45.136.02	350	Soft polyurethane	Grey
45.151.04	350	Soft polyurethane	Cream
45.151.05	350	Real wood with inserts	Mahogany and black
45.151.01	350	Soft polyurethane	Black
45.151.03	350	Soft polyurethane	White

◢ 45.136.02

◢ 45.151.04

◢ 45.151.05

◢ 45.151.03

◢ 45.151.01

Steering wheels with stainless steel spokes

Universal cone Ultraflex/Morse/Teleflex.

Code	Ø mm	Crown	Rim Color
45.137.01	350	Soft polyurethane	Black
45.137.02	350	Soft polyurethane	Grey
45.137.03	350	Soft polyurethane	White
45.137.05	350	Lacquered	Carbon
45.137.06	350	Lacquered	Briar Root

45.137.02

45.137.03

45.137.05

45.137.01

45.137.06

Impact steering wheels with stainless steel spokes

Universal cone Ultraflex/Morse/Teleflex.

Code	Ø mm	Crown	Wheel color
45.141.01	350	Soft polyurethane	Black
45.141.03	350	Soft polyurethane	White
45.141.04	350	Soft polyurethane	Carbon Look

45.141.04

45.141.03

45.141.01

Magnifico wheel with oval spokes

Stainless steel metal frame. Universal cone.

Code	Ø mm	Crown	Spokes
45.177.01	350	Polyurethane - black	3
45.177.03	350	Polyurethane - white	3
45.177.04	350	Teak - matt finish	3
45.177.05	350	Carbon fibre	3

45.177.05

45.177.04

45.177.03

45.177.01

Steering wheel with teak crown.

Stainless steel spokes, crown with rear anatomic design for better gripping.

Code	External Ø mm	Dishing
45.168.01	350	15°
45.168.02	400	15°

Mirror polished stainless steel steering wheels fitted with 5 spokes

Oval boxed crown for better grip. Universal central cone (Ultraflex, Morse, Teleflex, Tx, Mancini etc.); **stainless steel** central hub, fine finish, supplied with central black plastic cap.

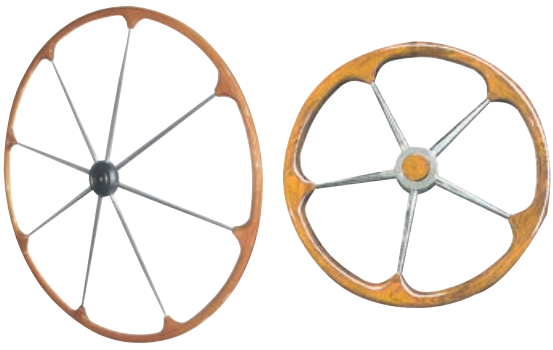
Code	Ø mm	Central teak plug OPTIONAL
45.165.32	320	**45.176.00**
45.165.37	380	**45.176.00**
45.165.41	420	**45.176.00**

45.176.00

Mirror polished stainless steel steering wheels

Suitable for sail boats, no embrasure, fitted with central hub (17-19-mm taper) fully made of **stainless steel**. Compatible with Ultraflex, Tx, Teleflex, Mancini etc.

Code	Crown Ø mm	Spoke N.
45.164.60	600	6
45.164.75	700	6
45.164.90	900	6



Steering wheels with teak external wheel rim

Stainless steel tapered spokes.

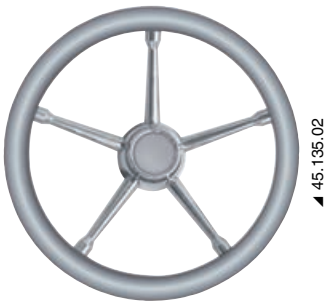
Code	External Ø mm
45.167.01	400
45.167.03	500
45.167.07	900

◀ 45.135.01

Steering wheels with stainless steel spokes

Universal cone Ultraflex/Morse/Teleflex.

Code	Ø mm	Rim made of
45.135.01	350	Soft black polyurethane
45.135.02	350	Soft grey polyurethane
45.135.03	350	Soft white polyurethane
45.135.04	350	Carbon
45.135.05	350	Real wood



◀ 45.135.02

◀ 45.135.03

◀ 45.135.05

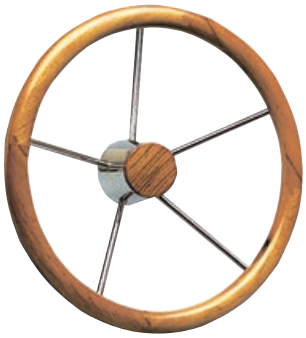
◀ 45.135.04

Steering wheels with mahogany polyurethane lacquered crown

Made of mirror polished **stainless steel**.
16° spoke inclination.

Code	Ø mm
45.168.35	350
45.168.40	400

Steering wheel with external teak wheel rim, thick diameter



Stainless steel spokes, anatomically designed grasp crown for better gripping.

Code	Outer Ø mm	Spike inclination
45.165.02	400	28°
45.165.03	350	28°

Steering wheels with external teak wheel rim and spokes coated with teak

Stainless steel hub and spokes, central cone "Ultraflex, Morse".

Code	external Ø mm
45.167.40	400
45.167.50	500

Hand grip

Fitting on steering wheel crowns to provide a quick rotation, universal size.

Code	Color
45.134.01	Black
45.134.02	Grey
45.134.03	White
45.134.04	- Wood color

45.134.01

Helm Indicator

45.130.01 For application at the centre of the wheel. Universal and self-adhesive.
Once applied it can be adjusted for perfect centering.

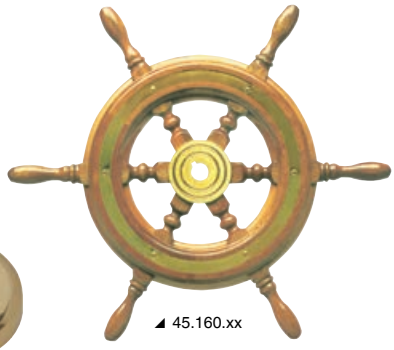
Classic steering wheels

Genovese type with 6 or 8 spokes, fitted with perimetrical **brass** bands, central hub in just one piece, polyurethane lacquered with 8 coats, sealed spokes, very sturdy, all with standard hole size 18 mm, or with Ultraflex.

Code	Ø mm
45.160.37	370
45.160.42	420
45.160.49	490
45.160.52	520
45.160.60	600
45.160.70	700
45.160.80	830

45.176.01/02 *Central brass plug*

45.176.01


45.160.xx

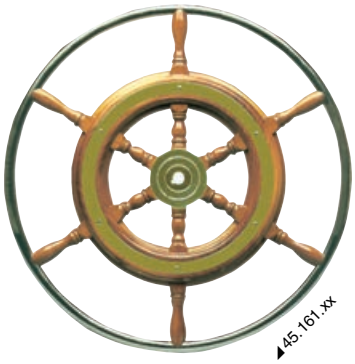
Classic steering wheel with stainless steel external rim

Technical features are the same of steering wheel model 45.160.xx.
The external rim is mounted with a special system without screws.
The hub and band are made of **chromed brass**.
Fitted with universal cone.

Code	Ø mm
45.161.42	420
45.161.52	520
45.161.62	620

45.176.03 *Central SS plug*

45.176.03



Rear cable steering shaft

Made of **plastic and metal**.

Code	Angle
45.145.01	normal 90°
45.145.02	inclined 20°

45.145.01

45.145.02

► ULTRAFLEX Steering wheels

ULTRAFLEX

◢ 45.383.30

◢ 45.383.34

ULTRAFLEX Corsica steering wheels

Soft PVC crown, aluminium spokes.

Code	Crown	Spokes	Ø mm
45.383.30	Black	Silver	350
45.383.34	White	Silver	350

45.601.51 *OPTIONAL Central hub with button and Ultraflex emblem.*

◢ 45.601.51

ULTRAFLEX Nisida and Spargi steering wheel

Soft polyurethane crown, aluminium spokes.

Code	Model	Ø mm	Crown	Spokes
45.384.01	NISIDA	350	Black	Black

45.601.51 *Central hub with button and Ultraflex emblem OPTIONAL*

◢ 45.601.51

ULTRAFLEX Morosini wheel

Leather crown and chromed hub.

Code	Crown	Spokes	Ø mm
45.389.00	Black	SS 304	350

ULTRAFLEX Pianosa wheel

Polyurethane crown and chromed spokes.

Code	Crown	Spokes	Ø mm
45.385.01	Black	Chromed	350

45.601.51 *Central hub with button and Ultraflex emblem OPTIONAL*

ULTRAFLEX Portofino wheel

Shock-resistant thermoplastic crown, soft grip.

Code	Crown	Spokes	Ø mm
45.388.01	Black	Black/Chromed	350

► Engine control cables

Engine control cables

Flexible for engine control.

Tipo	For engines
C2	for all Suzuki, Mariner, Yamaha, Tohatsu, Selva and Honda outboard and inboard engines
C5	Mercury and Mercruiser inboard and outboard engines
C8	inboard engines and stern drives (heavy duty reinforced cable)
C14	Johnson, Evinrude engines with stiff terminal, OMC from 1979 to now
C36	for all Mercury/Mercruiser engines equipped with Generation II (year 2004) radio remote control box

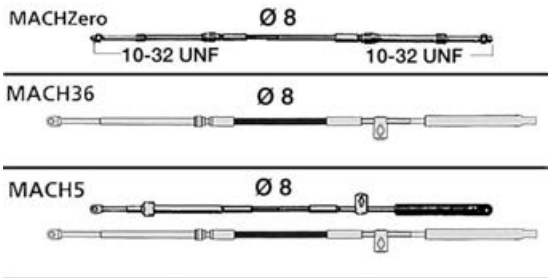
Length in feet	C2	C5	C8	C14	C36
05’	45.002.05	-	-	-	-
06’	45.002.06	45.005.06	-	45.014.06	-
07’	45.002.07	45.005.07	-	45.014.07	45.003.07
08’	45.002.08	45.005.08	45.008.08	45.014.08	45.003.08
09’	45.002.09	45.005.09	45.008.09	45.014.09	45.003.09
10’	45.002.10	45.005.10	45.008.10	45.014.10	45.003.10
11’	45.002.11	45.005.11	45.008.11	45.014.11	45.003.11
12’	45.002.12	45.005.12	45.008.12	45.014.12	45.003.12
13’	45.002.13	45.005.13	45.008.13	45.014.13	45.003.13
14’	45.002.14	45.005.14	45.008.14	45.014.14	45.003.14
15’	45.002.15	45.005.15	45.008.15	45.014.15	45.003.15
16’	45.002.16	45.005.16	45.008.16	45.014.16	45.003.16
17’	45.002.17	45.005.17	45.008.17	45.014.17	45.003.17
18’	45.002.18	45.005.18	45.008.18	45.014.18	45.003.18
19’	45.002.19	45.005.19	45.008.19	45.014.19	45.003.19
20’	45.002.20	45.005.20	45.008.20	45.014.20	45.003.20
21’	45.002.21	45.005.21	45.008.21	-	45.003.21
22’	45.002.22	45.005.22	45.008.22	45.014.22	45.003.22
23’	45.002.23	-	45.008.23	-	-
24’	45.002.24	45.005.24	45.008.24	45.014.24	45.003.24
25’	-	-	45.008.25	-	-
26’	-	-	45.008.26	-	-
27’	-	-	45.008.27	-	-
28’	-	-	45.008.28	-	-
29’	-	-	45.008.29	-	-
30’	-	-	45.008.30	-	-
31’	-	-	45.008.31	-	-
32’	-	-	45.008.32	-	-
33’	-	-	45.008.33	-	-
34’	-	-	45.008.34	-	-
35’	-	-	45.008.35	-	-
36’	-	-	45.008.36	-	-
38’	-	-	45.008.38	-	-
40’	-	-	45.008.40	-	-

Patented cables series ULTRAFLEX Mach™

High efficiency and flexibility.

Model	Type
MACHZero	universal (as C2/C8)
MACH36	Mercury GEN II (as C36)
MACH5	Mercury (as C5)

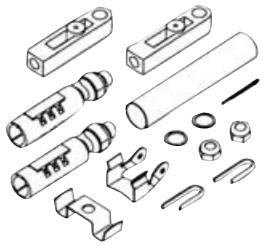
Length in feet	MACH36	MACH5	MACHZero
10’	45.010.10	45.009.10	45.000.10
11’	45.010.11	45.009.11	45.000.11
12’	45.010.12	45.009.12	45.000.12
13’	45.010.13	45.009.13	45.000.13
14’	45.010.14	45.009.14	45.000.14
15’	45.010.15	45.009.15	45.000.15
16’	45.010.16	45.009.16	45.000.16
17’	45.010.17	45.009.17	45.000.17
18’	45.010.18	45.009.18	45.000.18
19’	45.010.19	45.009.19	45.000.19
20’	45.010.20	45.009.20	45.000.20
22’	45.010.22	45.009.22	45.000.22
24’	45.010.24	45.009.24	45.000.24
26’	45.010.26	-	45.000.26
28’	45.010.28	-	45.000.28
30’	45.010.30	-	45.000.30
32’	-	-	45.000.32
34’	-	-	45.000.34
36’	-	-	45.000.36
38’	-	-	45.000.38
40’	-	-	45.000.40



► Steering cable connectors and remote control adapter kits

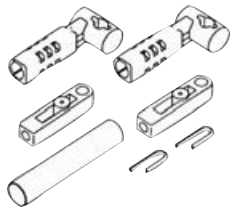
ULTRAFLEX

K57 kit for cable connection



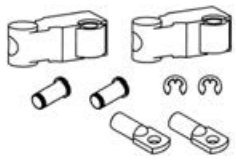
45.057.00 For cables C2/C8/C0 on engines Johnson/ Evinrude

K 56 kit for cable connection



45.056.00 For adapting cables C2/C8/C0 on Mercury engines

K61 kit for cable connection



45.100.13 For adapting cable C22 to boxes B301 and B302

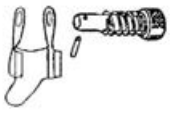
"A.310" kit for cable connection

45.255.09 For mounting cables C2 on engines Yamaha/Mariner

K35 kit for cable connection

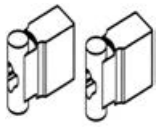
45.252.35 To use cable C5/C16 on single-lever box 45.252/253

K51 kit for cable connection



45.051.00 For connecting cables C14 to engines, to be used with single-lever on bulkheads.

K62 kit for cable connection



45.100.12 For adapting cables C36 and MACH36 to boxes B301 and B302

K23, K24, K25 kit for cable connection

Code	Kit	To be used on
45.047.23	"K23"	B47 with C14 OMC 1979 and later
45.047.25	"K25"	B47 with wire C2/C7/C8/C0
45.047.24	"K24"	B47 with C4 OMC, Selva, Volvo engines

K67

Code	To adapt cables
45.100.16	C2/C7/C8/MACHZERO to boxes B322/B324

Fork for fixing radio remote control sheaths.

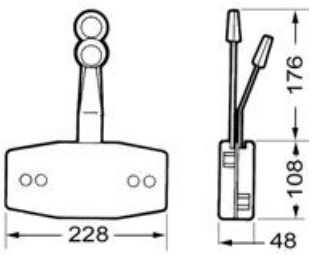
Made of **stainless steel**, designed for Johnson, Evinrude, Penta, Selva engines.

Code	Description
45.255.01	RIGHT painted in black (506001)
45.255.02	LEFT (50621Q)

► Control levers

Box B47

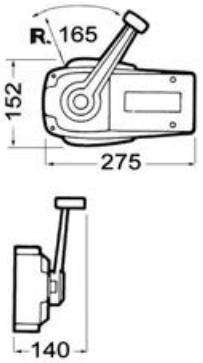
45.047.00 This kit is for Mercury engines.
Special adapting kits available to connect to other brands engine.



Single lever control B89/B90

Universal model, designed for side wall mounting either right of left, recommended for outboard and inboard engines fitted with hydraulic inverter. Compact size, can be fitted into any type of boat, equipped with idle lever locking system, sold with **universal Kit**, uses all types of cables except for C4 and C22. The kit K35 is required if cables C5 and C16 are used.

Code	Type	Color
45.452.02BI	B89	Ivory
45.452.02NE	B90	Black

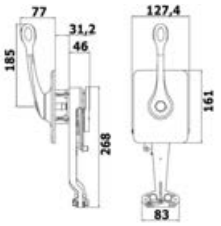


Low-profile bulkhead single-lever control

Double action: gas + inverter: Modern and simple **smooth low profile** design, making it ideal for sailing boats. Front panel with lever made of AISI 316 stainless steel. Equipped with adjustable clutch. Availability of X41 safety switch to prevent engine ignition when the lever is not in idle position. Matching cables: C2/C8/MACH"0".

Code	Type	Version
45.452.20	B400	Mechanical (both gas and inverter)

45.452.22 *X41 safety switch*

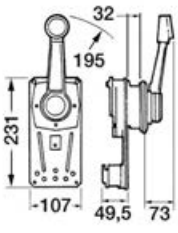


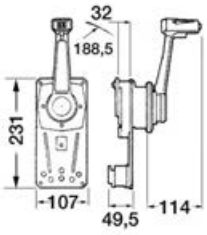
Single lever control for recess wall mounting

Any cable may be used (exceptC22/C36/MACH 36).
With cables C5 and C16/MACH 5 kit 35 is required. Suitable for any type of engine.

Code	Version	Abbreviation
45.452.04	with neutral lock	B183
45.452.05	with neutral lock and Trim switch	B184
45.452.06	sailboat version	B85
45.452.08	with neutral lock and Trim switch, black knob	B310B
45.452.09	with neutral lock and Trim switch, brier knob	B310BR

OPTIONAL Safety microswitch 45.012.00

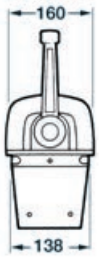


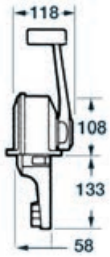


Universal single lever box ULTRAFLEX B65/B77

Chrome or lacquared body, chromed lever. Uses cables C2/C7/C8/C14, with kit K35 you can also use cables C5/C16.

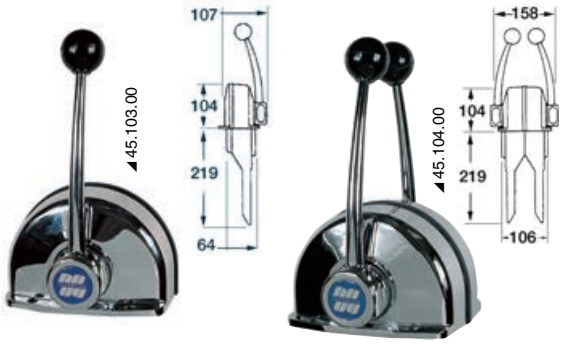
Code	Color	Trim control	Model
45.252.00	Painted	-	B73
45.252.02	Painted	x	B77





Microswitch X 12

45.012.00 It can be fitted in all Ultraflex boxes (except B47/B400), because this does not enable the ignition unless the engine is neutral. 2 switches are needed in case of twin levers.



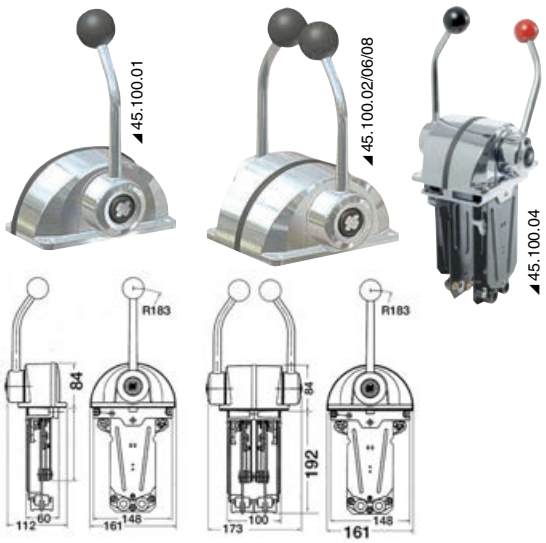
Diecast and chromed alloy single lever controls

Designed for panel mounting. Pull the level outwards to disconnect the inverter during the engine warm up. Fitted with internal friction, they require C2/C8/ MACH0 cables.

Code	Type	Safety switch* OPTIONAL
45.103.00	Single engine	**45.043.00**
45.104.00	Twin engine	**45.043.00****

* *It allows to start the engine on in **neutral***

** *2 switches are needed in the twin-engine version.*



Low Profile single lever control box

Compatible with any type of engine, gas and inverter control function, very compact size, made of **chromed zamak**. Available in dual-operation version with **push button** inverter disconnection or in single-operation version where each lever controls the gas or inverter cable separately. It accepts any type of cable except for C4. Supplied ready to fit cables C2/C7/C8/MACHZero.

For cables C5/C16/MACH5 ask for kit K60 (45.100.11). For cables C36/MACH36 ask for kit K62 (**45.100.12**). For cables C22 ask for kit K61 (**45.100.13**).

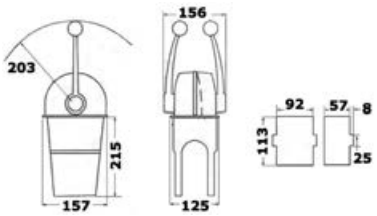
Code	Control box	Operation	Description
45.100.04	Dual-lever	Single	Single engine gas + inverter (B322)
45.100.06	Dual-lever	Single	Twin engine gas only (B322T)
45.100.08	Dual-lever	Single	Twin engine inverter only (B322S)
45.100.02	Dual-lever	Dual	Twin engine (B302CR)
45.100.01	Single-lever	Dual	Single engine (B301CR)

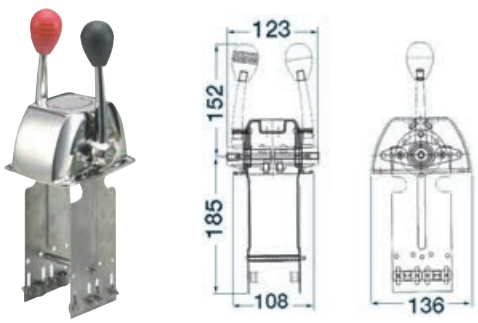
TELEFLEX Morse single lever, series MT

SEASTAR SOLUTIONS

The most classical and most used single chromed lever; console mounting, It controls both inverter and idle, while the **idle** can be used without connecting the gearbox.

Code	Version
45.095.00	MT 3 Single, single engine
45.096.00	MT 3 Twin, two engines





Control box suitable for controlling one engine

Made of **chromed brass and AISI 316 stainless steel**.
Suitable with cables: C2/C7/C8/C14.

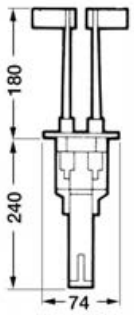
Code	⟷ mm
45.340.02	140x120x350

Twin lever box GEMINI

Require cables C2/C7/C8/C0 and C22 with adaptor K22.

Straight levers	Angled levers	Hand side
45.350.01-B50	**45.350.01-B46**	-
45.350.02-B59DX*	**45.350.02-B58DX***	right
45.350.02-B59SX*	**-**	left

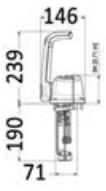
* *Safety lock allows to connect gearbox only at min RPM and to throttle only if inverter is fully connected.*



ULTRAFLEX B501 universal single-engine single-lever engine control

Single-lever/dual-action control to operate the throttle and the shift.
Available with or without lock in neutral and with or without trim switches.
In the twin engine installation a single switch will operate both trims.
With switch 45.012.00, ignition is only possible in neutral.
For use with Ultraflex cables:
- C14 cables require no connection kit.
- C2-C8-Mach0 cables come with K59 connection kit included.
- C5-C16-Mach5 cables require K60 connection kit (45.100.17) to be purchased separately.
- C36-Mach36 cables require K62 connection kit (45.100.12) to be purchased separately.

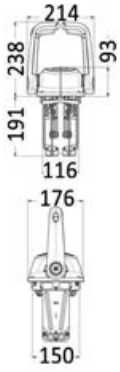
Code	Finish	Trim control	Lock in neutral	Model
45.254.00	Black	-	-	B51B
45.254.01	Chromed	-	-	B51CH
45.254.03	Black	x	x	B501BT/L
45.254.04	Chromed	x	x	B501CHT/L



ULTRAFLEX B501 universal twin-engine two-lever engine control

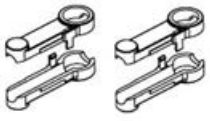
Two-lever/dual-action control to operate the throttle and the reverse gear.
With or without LOCK in neutral, with or without trim.
With switch 45.012.00, ignition is only possible in neutral.
For use with Ultraflex cables:
- C14 cables require no connection kit.
- C2-C8-Mach0 cables come with K59 connection kit included.
- C5-C16-Mach5 cables require K60 connection kit (45.100.17) to be purchased separately.
- C36-Mach36 cables require K62 connection kit (45.100.12) to be purchased separately.

Code	Finish	Trim control	Lock in neutral	Model
45.254.10	Black	-	-	B502B
45.254.11	Chromed	-	-	B502CH
45.254.12	Black	x	x	B502BT/L
45.254.13	Chromed	x	x	B502BHT/L



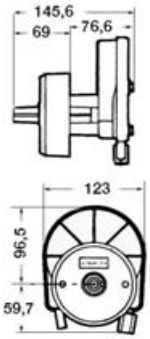
Adjusting kit for K60 cables

45.100.17 To connect C5/C16/Mach5 cables to B501/B502/B301/B302 control levers.



► ULTRAFLEX steering systems - Rotary steering systems

ULTRAFLEX



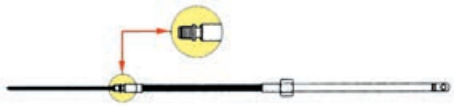
Rotary steering System T 67

Suitable for outboard engines up to 55 HP, can also be used with Morse C230/231, Teleflex, Compact, TX805.

Box only with clutch and cover 90° black	M58 cable only
45.067.00	45.067.XX *

45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19 *Terminals and brackets for any kind of steering wheel from this catalogue (OPTION).*

* *Pls check the detailed table here below to choose the right product depending on the length needed.*



Cable M58

For control box (model 45.067.00)

Code	Length	Code	Length	Code	Length
45.067.07	7’	**45.067.12**	12’	**45.067.17**	17’
45.067.08	8’	**45.067.13**	13’	**45.067.18**	18’
45.067.09	9’	**45.067.14**	14’	**45.067.20**	20’
45.067.10	10’	**45.067.15**	15’	**45.067.22**	22’
45.067.11	11’	**45.067.16**	16’		

◢ 45.055.02

◢ 45.055.03

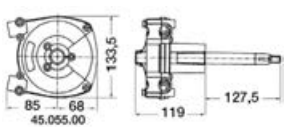
Rotary steering system T 71

For outboard engines, stern drive engines up to 9/10 meters and speed up to 50 MPH, 4 steering cycle, curve radius minimum cable 200 mm, stroke 228 mm.

Control mech only	M66 cable only	Cover	
		90°	20°
45.055.00	**45.185.xx***	45.055.02	45.055.03

45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19 *Engine side terminals and brackets for any kind of steering wheel from this catalogue (OPTION).*

* *Pls refer to the detailed table at the end of the rotating system range to choose a cable of the right length.*



◢ Planetary gear design

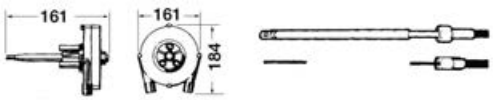
Rotary steering system T 85

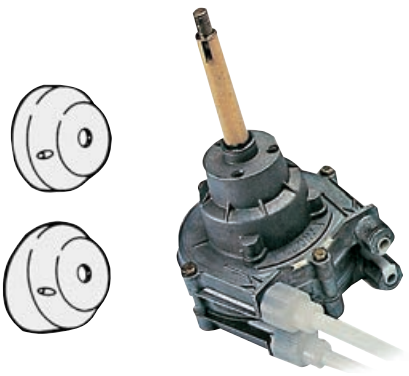
For outboard, inboard and SX-drive engines up to 9/10 meters and maximum speed of 50 MPH, steering cycle 3, minimum curve radius 200 mm, stroke 228 mm.

Control mech and cover 90°	M66 cable
45.185.00	**45.185.XX ***

45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19 *Terminals and brackets for any kind of steering wheel from this catalogue (OPTION).*

* *Pls refer to the detailed table at the end of the rotating system range to choose a cable of the right length.*





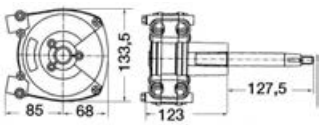
Rotary steering system T 72

Designed for heavy power, hulls up to 10.50 meters and speed of over 50 MPH.
Same features as model T71, but it works with **two** cables M66.

"T 72" control box only	M66 cable only	Cover	
		90°	20°
45.072.00	**45.185.xx ***	**45.055.02**	**45.055.03**

45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19 *Optional terminals and brackets to be choosen 45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19. It could be used with any kind of steering wheel from this catalogue (OPTION).*

* *Pls refer to the detailed table at the end of the rotating system range to choose a cable of the right length.*



◢ Planetary gear design

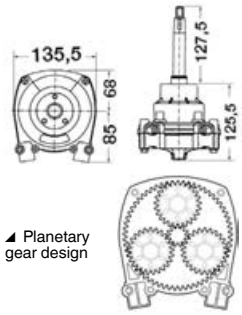
Non reversible rotary steering system T 73

Designed for hulls up to 9/10 meters and speed up to 50 MPH. This system allows you to leave the steering wheel without having the propeller cause vibration to the hull.

"T 73" control box only	M66 cable only	Cover	
		90°	20°
45.073.00	45.185.xx *	45.055.02	45.055.03

45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19 *Engine side terminals and brackets for any kind of steering wheel from this catalogue (OPTION).*

* *Pls refer to the detailed table at the end of the rotating system range to choose a cable of the right length.*



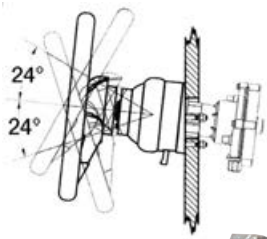
◢ Planetary gear design

Rotary steering system with adjustable wheel orientation

Box	Model	Version	M66 cable only	90° hub for inclination of steering system up to 48°
45.081.00	T 81	Single for boats up to 9/10 metrers	45.185.xx *	45.038.00
45.083.00	T 83	Single **non reversible** for boats up to 9/10 m	45.185.xx *	45.038.00

45.595.13; 45.595.14; 45.595.15; 45.595.16; 45.595.17; 45.595.18; 45.595.19 *Terminals and brackets for any kind of steering wheel from this catalogue OPTIONAL*

* *Pls refer to the detailed table at the end of the rotating system range to choose a cable of the right length.*



◢ Planetary gear design

◢ 45.038.00

T91/T93ZT rotary steering systems

Features: high efficiency; patented M90 Mach quick-coupling cable. Attention: M90 Mach cable is also suitable for use with steering wheels using M66 cables but these latter are not fit for T91/T93ZT steering systems; Engine side stainless steel cable with watertight seal; Central shaft for easy installation; 4.2 steering wheel turns, 228-mm cable stroke, 408-mm Ø steering wheel, 200-mm minimum steering cable bend radius. Recommended for boats not faster than 50 MPH. Not to be used on boats equipped with engines that exceed the maximum HP rating of the boat. T93ZT non-reversible version. It isn't necessary to remove the steering wheel since the propeller rotation will not make the boat veer.

Code	Description	M90 MACH cable	Hub cover		Anti-theft device with chromed hub cover
			90°	20°	
45.060.00	Single steering system	45.186.xx	45.055.02	45.055.03	45.055.06
45.061.00	Non reversible steering system	45.186.xx	45.055.02	45.055.03	45.055.06

◢ 45.061.00

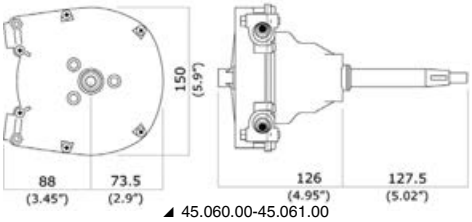
◢ 45.060.00

◢ 45.055.02/03

◢ 45.061.00

◢ Planetary gear design

◢ 45.055.06



◢ 45.060.00-45.061.00

T101/T103ZT rotary steering systems with adjustable wheel orientation

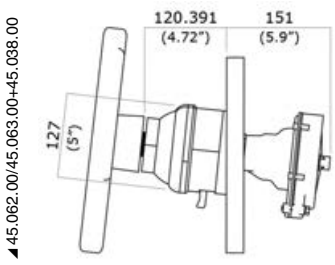
M90 Mach patented steering cable. Same technical specification as 45.060.00 and 45.061.00. For max 50 MPH speed. Do not install on boats with more powerful engines.

Code	Description	M90 Mach cable	90° hub for inclination of steering system up to 48°
45.062.00	Single steering system	45.186.xx	45.038.00
45.063.00	Non reversible steering system	45.186.xx	45.038.00

◢ 45.062.00+45.038.00

◢ 45.062.00

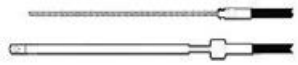
◢ Planetary gear design



◢ 45.062.00/45.063.00+45.038.00

◢ 45.038.00

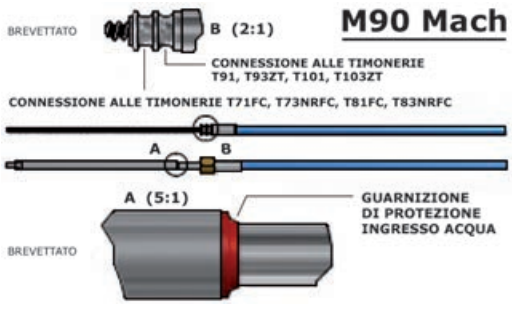
◢ 45.063.00



Cable M66

Can also be used as replacement for cables Teleflex SAFE-T

Code	Length	Code	Length	Code	Length
45.185.07	7’	**45.185.14**	14’	**45.185.21**	21’
45.185.08	8’	**45.185.15**	15’	**45.185.22**	22’
45.185.09	9’	**45.185.16**	16’	**45.185.23**	23’
45.185.10	10’	**45.185.17**	17’	**45.185.24**	24’
45.185.11	11’	**45.185.18**	18’	**45.185.25**	25’
45.185.12	12’	**45.185.19**	19’		
45.185.13	13’	**45.185.20**	20’		



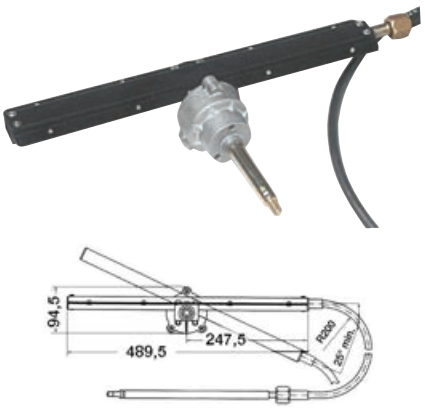
Mach M90 cable

Suitable for all Ultraflex steering systems using M90 and M66 cables and for Teleflex SAFE/TQC/NFB SAFE T II°/ NBF 4.2 steering systems.

Code	Length	Code	Length
45.186.07	7’	**45.186.17**	17’
45.186.08	8’	**45.186.18**	18’
45.186.09	9’	**45.186.19**	19’
45.186.10	10’	**45.186.20**	20’
45.186.11	11’	**45.186.21**	21’
45.186.12	12’	**45.186.22**	22’
45.186.13	13’	**45.186.23**	23’
45.186.14	14’	**45.186.24**	24’
45.186.15	15’	**45.186.25**	25’
45.186.16	16’		

For engine terminals see 45.595.13/14/15/16/17/18/19

► Steering systems - Straight line steering system



◄ 45.055.02

◄ 45.055.03

Straight line steering system T86

Suitable for outboard boats up to 9 mt and inboard boats up to 10,5. The system consists of a steering box already fitted with cable (TM86) and has to be **equipped** with G86 shaft (45.059.00) and OPTIONAL 90° (45.055.02) or 20° (45.055.03) hub cap.

T86 control mech + different length cables	Cable length	T86 control mech + different length cables	Cable length	T86 control mech + different length cables	Cable length
45.059.13	13’	**45.059.18**	18’	**45.059.23**	23’
45.059.14	14’	**45.059.19**	19’	**45.059.24**	24’
45.059.15	15’	**45.059.20**	20’	**45.059.25**	25’
45.059.16	16’	**45.059.21**	21’		
45.059.17	17’	**45.059.22**	22’		

45.059.00 *G86 shaft unit OPTION*

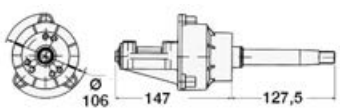
45.055.02 *90° cover OPTION*

45.055.03 *20° cover OPTION*

For the complete steering system, order the following items: 45.059.xx+45.059.00+45.055.02/03

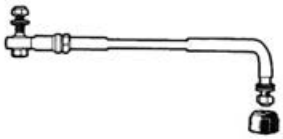
Shaft unit

45.059.00 Shaft unit G86



► Steering system accessories

Terminal A73

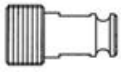


45.595.16 For cables on engines Mercury, Mariner, Yamaha, Suzuki, Tohatsu, Force and Honda

Coupling A44

45.044.00 For cables with terminal thread

Adaptor K46

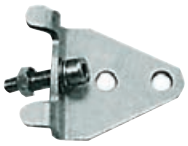


45.046.00 For converting cables with threaded terminal (M47), cables with bayonet terminal (M66-45.185.10)

Adaptor K66

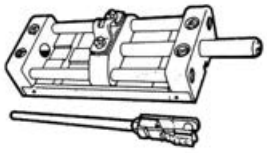
45.053.00 For convert cables M66 into cables M47 with a threaded terminal

Plate



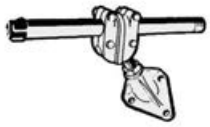
45.545.03 For fitting steering gear onto engines Yamaha/Mariner

Selector (L23)



45.549.00 For double steering station, use to connect cables with single lever boxes as well as with traditional boxes

Bracket S39

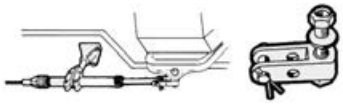


45.595.13 Stainless steel stern bracket

Terminal A74SS

45.595.17 For single cables on OMC

Terminal A75

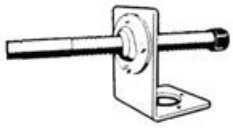


45.595.18 For engine fitting on cables without passing on the dinghy

Jointed bracket

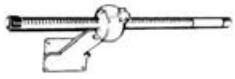
45.595.14 S40 **stainless steel** bracket resistant to marine corrosion. For steering system mono-cables.

Joint plate for steering systems



45.595.15 S55 **stainless steel** joint plate for steering system cables.

Painted iron and stainless steel stern bracket

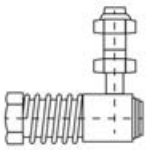


45.595.19 Painted iron bracket with AISI304 stainless steel bolts and pin. To hold the single cable steering systems.

Terminals for cables C2/C7/C8/C0

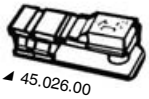
Code	Type	Suitable for cables
45.488.02	L25	C2 - C7 - C8 - MACH ZERO
45.488.03	L7	C2 - C7 - C8 - MACH ZERO
45.488.04	L12	C2 - C7 - C8 - MACH ZERO
45.026.00	L26	C22

◢ 45.488.04



◢ 45.488.03

◢ 45.488.02

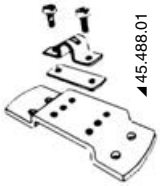


◢ 45.026.00

Cable sheath holder

Code	Type	Suitable for cables
45.488.01	L3 with bracket	C2 - C7 - C8 - MACH ZERO
45.488.05	L14 with fork	C2 - C7 - C8 - MACH ZERO

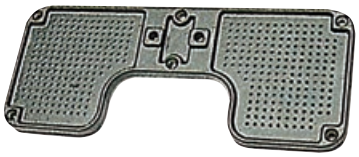
◢ 45.488.05



◢ 45.488.01

Device for mounting single cable steering gears

45.147.00 Device designed for mounting single cable steering gears on motorized dinghies with outboard engines that are not made-ready to house single cables onto the boat's steering; this device avoids having to mount the steering gear cable onto the dinghy's transom; universal model, made of **anodized aluminium**, fitted with a plate model 47.763.92 + adjusting clamp + steering gear mounting pipe + small screw-in nylon bushings.

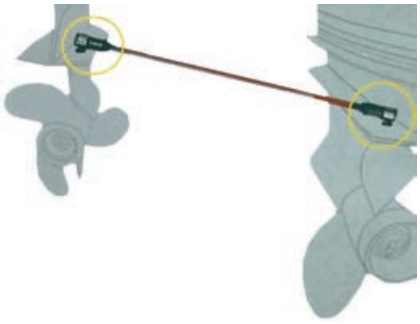


Transom protective plate

Made of **aluminium**.

Code	⟷ mm
47.763.92	260x110

► Coupling bars



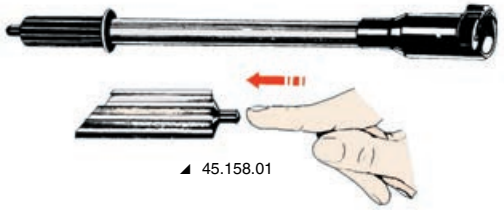
Coupling rod

45.560.00 Stainless steel with ball terminal joints, used to connect the main engine with an auxiliary one; the auxiliary steering can be handled with the boat steering system. Adjustable length **from 45 to 60cm**, easy to remove thanks to its spring ball fitting.

► Outboard tiller extensions

OSCULATI

◢ 45.156.05

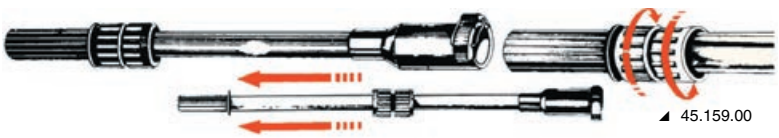


◢ 45.158.01

Snap extension rod for outboard engines

Version fitted with **patented snap-in locking system**; universal model, anodized **aluminium** pipe, rubber hand grip and nylon lock.

Code	Version	Length cm
45.156.05	standard	60
45.158.01	with ground push button included in the handle	60
45.159.00	telescopic	55/95



◢ 45.159.00

◢ 45.155.80/81

◢ 45.155.86

Extension rod for outboard engine steering

Wing nut mounting.
Universal model made of anodized aluminium, equipped with knob and nylon locking system.

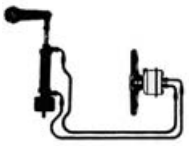
Code	Version	Length cm
45.155.80	Fixed	66
45.155.81	Fixed	76
45.155.86	Telescopic	61 / 100

► VETUS hydraulic steering systems for inboard engines

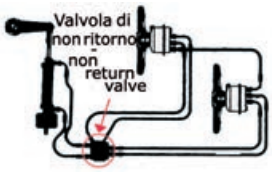
VETUS steering systems

Made fully of rust-proof material according to advanced techniques, EC type-approved.

The measurement of the steering systems is just an indication. The choise shall keep into account the hull size, the engine power, the rudder size, the hull weight and type. Please, let us know all the above mentioned data to allow us recommend you the most suitable steering system.



◢ Simple control



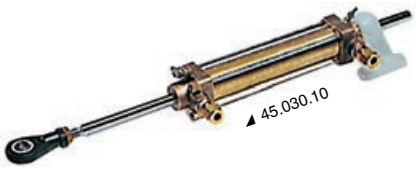
◢ Twin control

Code	Type	Station	Boat length m	Torque kgm	Rudder turns	Stroke mm	Tiller angle degrees	Tiller length mm	Pump	Cylinder	Cylinder volume c.c.	Joints	
												45.028.18-19	"T"
45.030.10	MT 30	single	8	30	3.4	150	70	129	HTP2010	MTC30	67	-	-
45.045.10	MT 52	single	10	52	3.5	160	70	140	HTP3010	MTC52	104	4	-
45.045.20*	MT 52	double	10	52	3.5	160	70	140	HTP3010	MTC52	104	14	2
45.080.10	MT 72	single	12	72	4.9	225	70	196	HTP3010	MTC72	146	4	-
45.080.20*	MT 72	double	12	72	4.9	225	70	196	HTP3010	MTC72	146	14	2
45.110.10	MT 125	single	14/15	125	6	160	70	140	HTP4210	MTC125	253	4	-
45.110.20*	MT 125	double	14/15	125	6	160	70	140	HTP4210	MTC125	253	14	2
45.140.10	MT 175	single	16/17	175	8.5	225	70	196	HTP4210	MTC175	356	4	-
45.140.20*	MT 175	double	16/17	175	8.5	225	70	196	HTP4210	MTC175	356	14	2

* *Fitted with check valve*

Important:
A) *The Vetus steering gears, except for model 45.030.10, can be installed with flexible pipe R7 5/16 (45.028.14) or with copper pipe 8x10 mm (45.028.10)*
The copper pipe doesn't require additional joints, the hose requires joint models 45.028.18-19 according to the quantity shown beside the steering systems.
B) *Steering gear 45.030.10 uses nylon or copper pipe size 6x8 (45.028.11)*

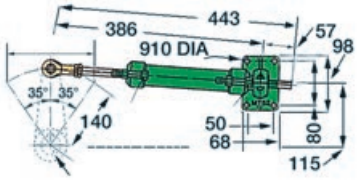
45.030.10 *Fittings included.*



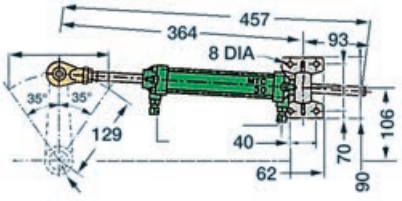
◢ 45.030.10

◢ 45.045.10/080.10

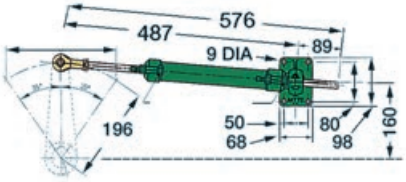
◢ 45.110.10/140.10



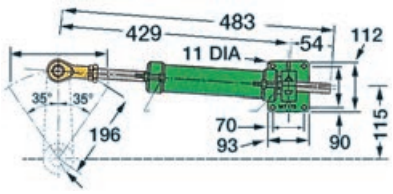
◢ 45.045.10



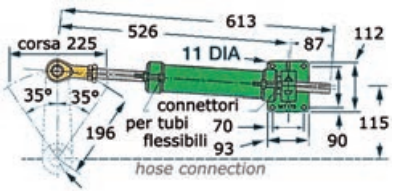
◢ 45.030.10



◢ 45.080.10



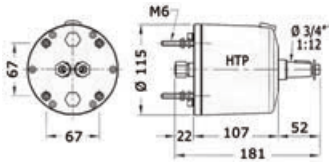
◢ 45.110.10



◢ 45.140.10

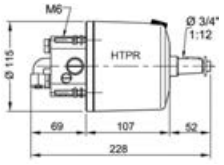
► Components and spare parts for hydraulic steering system VETUS

◢45.030.11; 45.045.11; 45.110.11



◢45.030.11; 45.045.11; 45.110.11

◢45.085.13



◢45.085.13

VETUS pump for steering systems

Easy installation behind the bulkhead, 3/4" standard tapered axle, it works at no matter what angle.

Code	Model	Type
45.030.11	HTP2010	Standard
45.045.11	HTP3010	Standard
45.110.11	HTP4210	Standard
45.085.13	HTP4210R	With built-in check valve

For systems with 8-mm pipe, use fitting 17.408.01.

For systems with 10-mm pipe, use fitting 17.408.02.

Cylinder for VETUS steering system

Code	Type
45.030.12	MTC30
45.045.12	MTC52
45.080.12	MTC72
45.110.12	MTC125
45.140.12	MTC175

Stainless steel flange (HTPF2) for VETUS steering systems

45.126.40 To remove and fit pumps HTP size 74 mm

Check valve

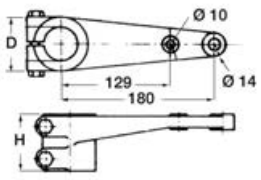
◢45.126.20

◢45.126.30

Code	Type
45.126.20	for single or double station MT30/52/72/125/175
45.126.30	for Hi Load steering system with pipes mm 18x15

Tap BYPASS

45.045.05 For hydraulic steering gears 45.045.10; 45.045.20; 45.080.10; 45.080.20; 45.110.10; 45.110.20; 45.140.10; 45.140.20. For use in emergency situations or for hand-control rudder sailing.



Rudder coupling rods

Two stud mounting and two dowels, two fixing holes size 129 and 180 mm in order to be used on various types of steering gear.

Code	H mm	D mm
45.029.01	56	30
45.029.02	66	40

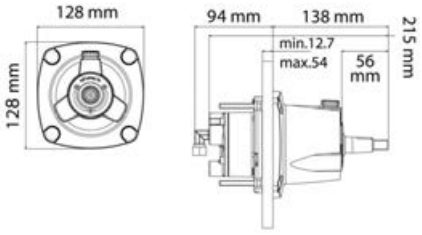
► ULTRAFLEX hydraulic steering kits for outboard engines

ULTRAFLEX

ULTRAFLEX Gotech hydraulic steering system for inboard/outboard engines up to 115 HP, supplied in complete kit

In compliance with EU 95/25 and ISO 10592 standards.
Supplied in kit containing:
- UP18 semi-recessed pump with check valve and relief valve. 18CC/revolution delivery, 5 pistons, 55-bar pressure, max 508-mm Ø wheel.
- hydraulic cylinder (see below).
- 2 x 6-m 1/4" hoses (that can be shortened if necessary). Complete with reusable terminal connectors
- 2 litres of hydraulic oil.

GOTECH

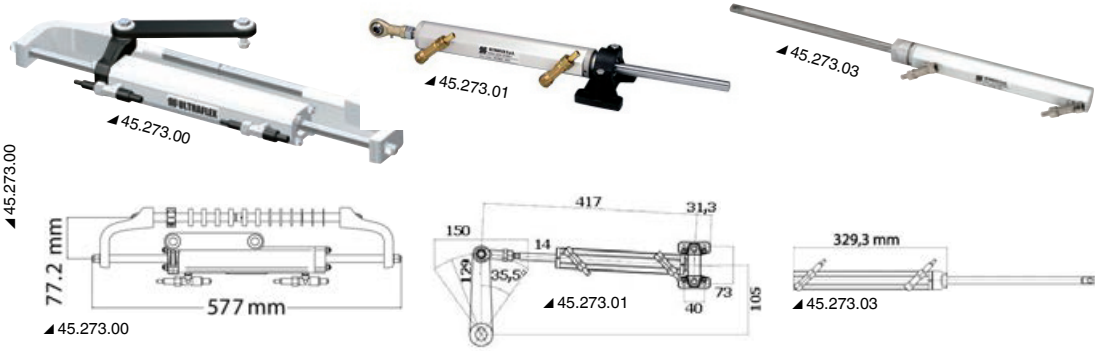


Code	Installation	Description	Wheel rev.	Thrust kg	Stroke mm
45.273.00	Front outboard	Gotech kit with UC81-OBF cylinder. 81-cc volume.	4.5	222	186
45.273.03	Front outboard	Gotech kit with UC68-OBS cylinder. 81-cc volume. Non-balanced side mounting.	3.7/5.5	-	203
45.273.01	Inboard	Gotech kit with UC69-I cylinder. 69-cc volume.	3.8	168	150

Engine	Model	Year
MERCURY and MARINER	50-75-90 2S; 115 EFI 2S; 75-90-115 OPTIMAX 2S and 40-50-60 EFI 4S; 75-80-90 EFI 4S; 100-115 EFI 4T.	1990-2008; 1990-2007; 2004-up to now; 2000-up to now; 2007-up to now.
ENVIRUDE	E40-E50-E55-E60 2S and E75-E90 2S; E115 2S V4.	2004-up to now; 1995-up to now.
YAMAHA	60-70 2S; 75C-90 2S; 115C 2S; F40G-F70 4S; F30-F40-F60-F75-F80 EFI 4S; F90-F100-F115 EFI 4S; F80-F100 4S; F115; F40D-F50F-F60C EFI 4S.	1984-2008; 1998-2008; 1990-2008; 2010-up to now; 1999-2007; 1999-2007; 2000-up to now; 2004-up to now; -
HONDA	BF40-50-60-75-90 4S; BF115D; BF115A; BF90 V-TEC 4S.	1995-up to now; 1998-2009; 2009-up to now; 2008-up to now.

Engine.	Model.	Year.
SUZUKI	DF40-50-60-70-80-90 4S; DF100-115 4S*.; DF100-115 4S new model.	1998-up to now; 1998-2008; 2008-up to now
TOHATSU-NISSAN	40-50-60-70-90 2S; 75-115 2S; 40-50TLDI 4S; 70-90-115 TLDI 4S.	2004-up to now
SELVA	40XS-50/60/70 2S 80 Portofino/Tigershark 2S; 25 Kingfish 4S; 40 Aruana 4S; 40xs-40xsr-50-60 Dorado EFI 4S; 40XSR EFI Murena 4S; 80xs-100-100xsr efi mARLIN 4T; 115-115XSR EFI Tarpon 4T; 115 EFI Narwhal 4T.	-; -; 1995-up to now;-; -; -; -; 2000-up to now; -
JOHNSON	BJ60-70 4S and BJ90-115 4S; J90-115 V4 2S.	2001-2007; 1995-2007.

** NOTE: with Suzuki® engines made between 1998 and 2008 (old model) and UC81-OBF cylinder, please, order adjusting kit 45.419.54.*



Hyco-OBS/M steering system - Max 150 HP, kit version

45.270.09 It includes:
- UP20F pump (45.270.01);
- UC68-OBS non-balanced side cylinder (45.273.03);
- 2 x 6-m hoses;
- 2 litres of hydraulic oil.

3,4/5 steering wheel revolutions

HYTECH steering system max 175 HP, kit version

45.270.10 The kit contains:
- UP20F pump.
- UC95-OBF1 balanced cylinder (45.271.10).
- 9-m hose kit, hose can be cut (1 unscrewing fitting).
- 2 litres of hydraulic oil.

3,7 steering wheel revolutions.

NAUTECH max 300 HP steering system kit

Kit contains:
- UP25F/UP28F pump
- UC128 balanced cylinder.
- 2 x 9-m hoses that can be shortened (1 screwable joint).
- 2 litres of hydraulic oil.

Code	Initials	Description	Wheel rev.
45.283.01	UP25	Kit Nautech 3 with hydraulic cylinder UC128-OBF/1	4.8
45.283.02	UP25	Kit Nautech 3 with hydraulic cylinder UC128-OBF/2	4.8
45.283.15	UP28	Kit Nautech 1 with hydraulic cylinder UC128-OBF/1	4.3
45.283.16	UP28	Kit Nautech 1 with hydraulic cylinder UC128-OBF/2	4.3

ULTRAFLEX hydraulic steering system for outboard engines up to 150/175 HP

UP20 F and UP20 T front pump.
Steering systems shall be supplemented with the following: 2 litres of oil45.027.00; hose kit 45.290.35; 45.290.40; 45.290.45; 45.290.50; 45.290.55; 45.290.60; 45.290.65; 45.290.70.
For mounting flanges see items 45.270.03; 45.270.04; 45.280.10.

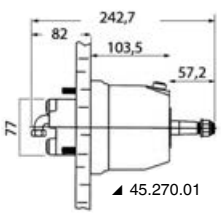
Code	Version	Mounting	Cylinders	Max overpressure setting bar	Capacity c.c.	Steering wheel max Ø mm	Fittings
45.270.01	UP20 F	frontal	5	70	20	508	3/8"
45.270.02*	UP20 T	frontal/adjustable	5	70	20	406	-

* **45.038.00** *OPTIONAL Kit X52 for adjustable inclination of the steering wheel*

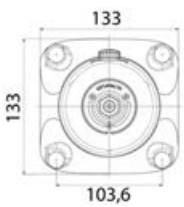
◢ 45.270.01

◢ 45.270.01 + 45.270.04

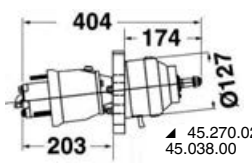
◢ 45.270.02 + 45.038.00



◢ 45.270.01



◢ 45.270.04



◢ 45.270.02 + 45.038.00

Kit X52

Code	Description
45.038.00	Designed to **adjust and incline** the steering wheel for a total of 48°

Hydraulic cylinder 150/175 HP

Steering systems have to be complete with: 2 litres of oil 45.027.01; hose kit 45.290.35; 45.290.40; 45.290.45; 45.290.50; 45.290.55; 45.290.60; 45.290.65; 45.290.70.

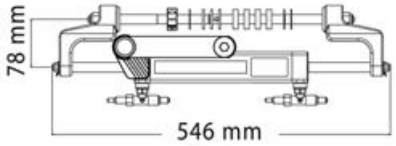
Engine	Model	Year	Cylinder
Mercury Mariner	50–75–90 2S;	1990-2008	UC94/95 - OBF 1
Mercury Mariner	75–90–115 Optimax 2S;	2004 >	UC94/95 - OBF 3
Mercury Mariner	125–135–150 Optimax 2S;	1999 >	UC94/95 - OBF 1
Mercury Mariner	175 Optimax 2S;	1999 >	UC95 - OBF 1
Mercury Mariner	100–115 EFI 4S;	1999 >	UC94/95 - OBF 1
Mercury Mariner	40–50–60 EFI 4S;	2004 >	UC94/95 - OBF 1
Mercury Mariner	75–80–90 EFI 4S;	2000 >	UC94/95 - OBF 1
Mercury Mariner	100-115 EFI 4S;	2007 >	UC94/95 - OBF 1
Mercury Mariner	175 V6 4S;	2018 >	UC95 - OBF 1
Evinrude	E40-E50-E55-E60 2S;	2000 >	UC94/95 - OBF 1
Evinrude	E75-E90 2S;	2004 >	UC94/95 - OBF 1
Evinrude	E115-E130-E135 2S V4;	1995 >	UC94/95 - OBF 1
Evinrude	E130-E135-E150 2S V4;	1995 >	UC94/95 - OBF 1
Evinrude	E175 2S V4;	1995 >	UC95 - OBF 1
Yamaha	60-70 2S;	1984 - 2008	UC94/95 - OBF 1
Yamaha	75-90 2S;	1998 - 2008	UC94/95 - OBF 1
Yamaha	115-130-150-150F-150HPDI 2S;	1990 - 2008	UC94/95 - OBF 1
Yamaha	175HPDI;	2000 - 2008	UC95 - OBF 1
Yamaha	F60-F75-F80 EFI 4S;	1999 - 2007	UC94/95 - OBF 1
Yamaha	F90-F100-F115-F150 4S;	1999 - 2007	UC94/95 - OBF 1
Yamaha	F115-F150 L4 4S;	2000 >	UC94/95 - OBF 1
Yamaha	F175 L4 4S;	2000 >	UC95 - OBF 1
Honda	BF75-BF90;	1995 >	UC94/95 - OBF 1
Honda	BF 80/100;	2013 >	UC94/95 - OBF 1
Honda	BF115D;	1998 - 2009	UC94/95 - OBF 3
Honda	BF115A;	2009 >	UC94/95 - OBF 1
Honda	BF130A;	1998 - 2005	UC94/95 - OBF 3
Honda	BF135-BF150;	2005 >	UC94/95 - OBF 1
Honda	BF175;	2001 >	UC95 - OBF 1
Suzuki	DF70-DF80-DF90-DF100-DF115-DF140 4S;	1998 >	UC94/95 - OBF 1
Suzuki	DF150;	2006 >	UC94/95 - OBF 1
Suzuki	DF175;	2006 >	UC95 - OBF 1
Thoatsu Nissan	115-120-140 2S;	2004 >	UC94/95 - OBF 1
Thoatsu Nissan	70-90-115 TLD 4S;	2004 >	UC94/95 - OBF 1
Thoatsu Nissan	BFT 60-75-80-90-100-115-150 4S;	2015 >	UC94/95 - OBF 1
Thoatsu Nissan	70-90-100-115 MFS 4S;	2020 >	UC94/95 - OBF 1
Selva	80 Portofino / Tigershark 2S;	1995 >	UC94/95 - OBF 1
Selva	150 Whiteshark 2S;	2001 - 2007	UC94/95 - OBF 1
Selva	100 EFI Marlin - 115 EFI Narwhal;	2001 - 2007	UC94/95 - OBF 1
Selva	150 EFI Killer Whale 4S;	2000 >	UC94/95 - OBF 1
Johnson	70-90-115-140 4S;	2001 - 2007	UC94/95 - OBF 1
Johnson	90-115 V4 2S;	1995 - 2007	UC94/95 - OBF 1
Johnson	150 V6 2S;	1995 - 2007	UC94/95 - OBF 1
Johnson	175 V6 2S;	1995 - 2007	UC95 - OBF 1

◢45.271.04

◢45.271.10

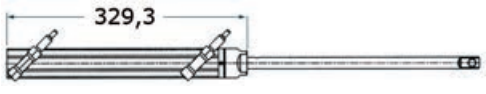
◢45.271.12

◢45.271.13



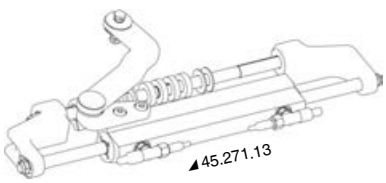
◢45.271.10/12/13

Code	Type	Use	Mounting	Balanced	Volume CC	Thrust kg	Fittings
45.271.04	UC68-OBS	Outboard	Side	Yes	66	168	3/8"
45.271.10	UC95-OBF1	Outboard	Front	Yes	120	450	3/8"
45.271.12	UC95-OBF3	Outboard	Front	Yes	120	450	3/8"
45.271.13*	UC95-OBF2	Outboard	Front	Yes	120	450	3/8"

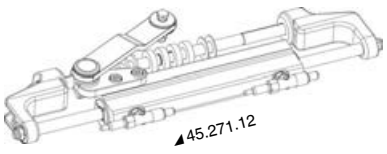


◢45.271.04

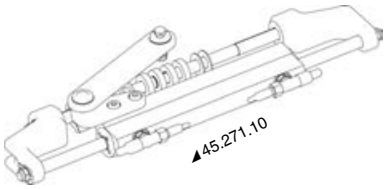
* *UC95-OBF2 similar to UC95-OBF1 but allows a wider tilting angle.* ***Only upon request***



◢45.271.13



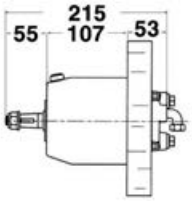
◢45.271.12



◢45.271.10

◢ 45.280.00/01/02/03/33

◢ 45.280.04/07/08/11



◢ 45.280.00/01/02/03

ULTRAFLEX hydraulic steering system for outboard engines up to 300 HP

Hydraulic pump - Fitted with check valve.
For mounting flanges, see items 45.270.03; 45.270.04; 45.280.10.

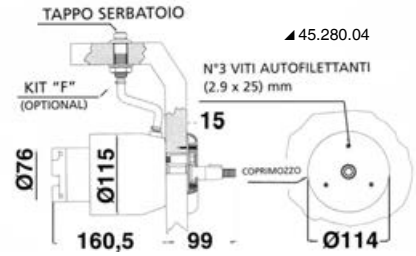
Code	Initials	Mounting	Flow/rev. cc	Pistons	Pressure bar	Max st.wheel Ø mm	Fittings	kg
45.280.00	UP25F	Front	25	5	70	710	3/8"	5
45.280.01	UP28F	Front	28	5	70	710	3/8"	5
45.280.02	UP33F	Front	33	5	70	710	3/8"	5
45.280.03	UP39F	Front	39	7	70	710	3/8"	5
45.280.33	UP45F	Front	45	7	70	710	3/8"	5
45.280.04	UP33R	Rear-dashboard	33	7	70	710	3/8"	5
45.280.07	UP28R	Rear-dashboard	28	5	70	710	3/8"	5
45.280.08	UP39R	Rear-dashboard	39	7	70	710	3/8"	5
45.280.11	UP45F	Rear-dashboard	45	7	70	710	3/8"	5

45.270.08 *X68 chromed flange for hydraulic pumps*

45.270.07 *"F" kit for easier filling up and cleaning of hydraulic pumps*

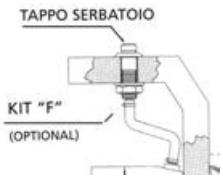
◢ 45.270.07

◢ 45.270.08



◢ 45.280.04

◢ 45.270.07 kit



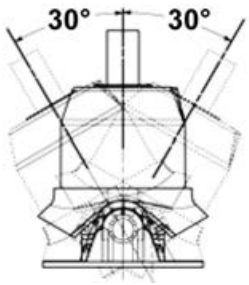
Hydraulic pumps

Made ready for mounting kit X52 (45.038.00), wheel inclination.

Code	Initials	Flow per turn cc	Pistons	Pressure bar	Max st.wheel Ø mm	kg
45.281.01	UP28T	28	5	70	710	5
45.281.02	UP33T	33	5	70	710	5
45.281.03	UP39T	39	7	70	710	5

Kit X52

Code	Description
45.038.00	Designed to **adjust and incline** the steering wheel for a total of 48°



X72 kit

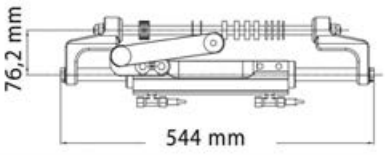
45.040.00 It adjusts the steering wheel inclination in 5 positions up to 60°.
In comparison with TILT systems 45.038.00/45.039.00, it has a dramatically reduced size since it has to be fixed to the panel and wraps the hydraulic pump.

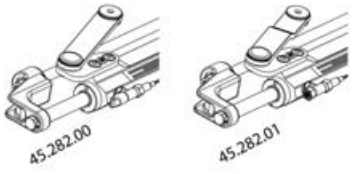
Hydraulic cylinder for outboard engines

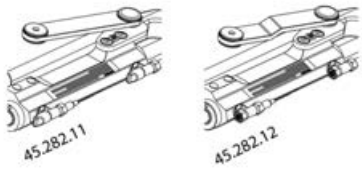
Engine	Model	Year	Cylinder
MERCURY and MARINER	115-125-150 EFI 2S;	1990-2007;	UC128-OBF/1;
	225-250 EFI 2S;	2000-2007;	UC128-OBF/1;
	75-90-115 Optimax;	2004-now;	UC128-OBF/3;
	135-150-175 Optimax;	1999-now;	UC128-OBF/1;
	200-225-250 Optimax;	1999-now;	UC128-OBF/1;
	Racing 300 Optimax;	1999-2011;	UC128-OBF/1;
	100-115 EFI 4T;	2007-now;	UC128-OBF/1;
	250 Saltwater EFI 4S;	2007-2011;	
	135-150-175-200 Verado L4;	2004-now;	UC128-OBF/1;
	Fourstroke 175-200 V6;	2018-now;	UC128-OBF/1;
	Fourstroke 225-300 V8	2018-now	UC128-OBF/1
ENVIRUDE	E75-E90 2S;	2004-now;	UC128-OBF/2;
	E115-E130-E135 2S V4;	1995-now;	UC128-OBF/2;
	E150-E175-E200-E225-E250-E300 2S V6	1995-now	UC128-OBF/2
YAMAHA	115C-130B 2S;	1990-2008;	UC128-OBF/2;
	75C-90 2S;	1998-2008;	UC128-OBF/2;
	115C-130B 2S;	1990-2008;	UC128-OBF/2;
	150F-200F-250G 2S;	1996-2007;	UC128-OBF/2;
	150 HPDI VMAX 2S;	2000-2008;	UC128-OBF/2;
	175-200-225-250-300 HPDI VMAX 2S;	2000-2008;	UC128-OBF/2;
	F115-F150 EFI 4S;	1997-2007;	UC128-OBF/1;
	F200-F225-F250 4S;	2002-2007;	UC128-OBF/2;
	F70 4S;	2010-now;	UC128-OBF/1P;
	F115-F150-F175-F200 L4 4S;	2004-now;	UC128-OBF/1;
	F200-F225-F250-F300 V6 4S	2004-now	UC128-OBF/2
HONDA	BF75-BF90 4S;	1995-now;	UC128-OBF/1;
	BF115-BF130 4S;	1998-now;	UC128-OBF/3;
	BF135-BF150 4S;	2005-now;	UC128-OBF/1;
	BF150 V-TEC 4S;	2008-now;	UC128-OBF/1;
	BF175-BF200-BF225-BF250 4S	2001-now	UC128-OBF/1
SUZUKI	DF70-80-90 4T;	1998-now;	UC128-OBF/2;
	DF100-115-140 4S*;	1998-2008;	UC128-OBF/1*;
	DF100-115-140 4S;	1998-now;	UC128-OBF/1;
	DF150-175-DF200 L4 4S;	2006-now	UC128-OBF/1;
	DF200-DF225-DF250-DF300-V6 4S	2004-now	UC128-OBF/2
TOHATSU	115-120-140 2S;	2004-now;	UC128-OBF/2;
	70-90-115 TLDI 4S;	2004-now;	UC128-OBF/1;
	BFT60-75-90 4S;	2015-now;	UC128-OBF/1;
	BFT80-100-115 4S;	2015-now;	UC128-OBF/3;
	BFT150-200-225-250 4S	2015-now	UC128-OBF/1
SELVA	80 Portofino/Tigershark 2S;	1995-2008;	UC128-OBF/1;
	150 White Shark 2S;	2001-2007;	UC128-OBF/2;
	100EFI Marlin -115 EFI Narwhal-;	2000-now;	UC128-OBF/1;
	150EFI Killer Whale 4S	2000-now	UC128-OBF/1
JOHNSON	BJ90-115-140 4S;	2001-2007;	UC128-OBF/1;
	J90-115 V4 2S;	1995-2007;	UC128-OBF/2;
	J150-175 V6 2S;	1995-2007;	UC128-OBF/2;
	J200-225 V6 4S	2004-2007	UC128-OBF/2

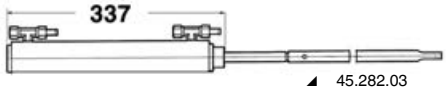
**NOTE: in case of Suzuki® models made from 1998 to 2008 (old model), cylinder UC128-OBF/1 shall be ordered along with adjustment KIT 45.419.54.*

For higher power uses, we recommend the "high performance" SilverSteer™ cylinder.









Code	Mounting	Trimmed	Volume cc	Thrust kg	Stroke mm	Pipe joints	Type
45.282.00	front right	yes	120	450	185	3/8"	UC-128-OBF/1
45.282.01	front right	yes	120	450	185	3/8"	UC-128-OBF/2
45.282.11	front left	yes	120	450	185	3/8"	UC-128P OBF/1
45.282.12	front left	yes	120	450	185	3/8"	UC-128P OBF/2
45.282.03	side, non trimmed	no	132/163	455/563	203	3/8"	UC 132 OBS

HOW TO ORDER ITEM 45.282.01

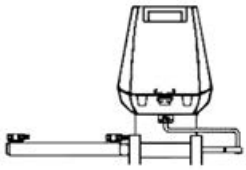
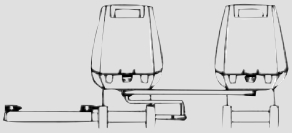
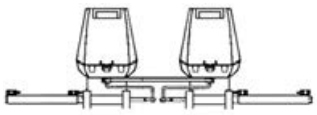
Technical specifications and buying advice for steering systems

SYSTEM	List of components	Codes	Quantity
Single-cylinder single-engine		-	
	Cylinder	**45.282..**	1
	Pump	**45.280.00/01**	1
	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
	Steering wheel	-	
	For additional stations, add	-	
	Pump	**45.280.00/01**	1
	Joint kit	**45.290.15**	1
	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
Steering wheel rev.: 4.5. Application up to max 300 hp			
Single-cylinder twin-engine	Cylinder	**45.282..**	1
	Pump	**45.280.00/02**	1
	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
	Connection rod	**at 94**	
	For additional stations, add	-	
	Pump	**45.280.00/02**	1
	Joint kit	**45.290.15**	1
	Pipe kit	**45.290.35..**	1
Steering wheel rev.: 4.8/4.3 Applications: up to max. 300 hp (non counter-rotating engines); max 500 hp (counter-rotating engines)	Oil	**45.027.01**	2
Twin cylinder twin-engine	Cylinder	**45.282..right/letf**	2
	Pump	**45.280.03/33**	1
	Pipe kit	**45.290.35..**	2
	T-joint kit	**standard**	1
	Oil	**45.027.01**	4
	Connection rod	**at 90**	
	For additional stations, add	-	
	Pump	**45.280.03**	1
	Joint kit	**45.290.15**	1
	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
Wheel rev.: 6.1/5.3 Applications: up to max 500 hp (non counter-rotating engines); up to 600 hp (counter-rotating engines)			

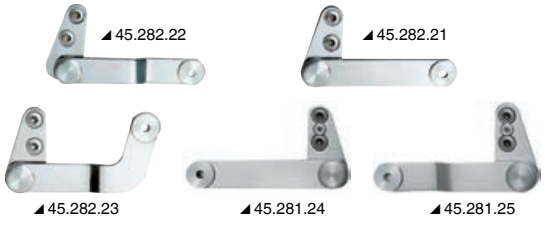
Cylinder 45.282.00/01 is not recommended if maximum speed of the boat exceeds 60 knots

HOW TO ORDER ITEM 45.282.03

APPLICATION 45.282.03. Same features of model 45.282.01 with the additional information concerning engines Johnson & Evinrude: the cylinder 45.282.03 is not required when an assisted steering engine OMC is already fitted with cylinder model 985519, in this case use n° 2 connecting joints (ref. Parker model F6X-5 10-3/8")

FOR SYSTEM	Component list	Code	Quantity
Single cylinder single engine	Cylinder	**45.282.03**	1
	Pump	**45.280.00/01**	1
	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
	Steering wheel	**-**	
	For additional stations, add	**-**	
	Pump	**45.280.00/01**	1
	Joint kit	**45.290.15**	1
Steering wheel revolutions: 4.7/5.8 Application up to 300 hp max	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
Single cylinder twin engine	Cylinder	**45.282.03**	1
	Pump	**45.280.00/01**	1
	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
	Connection rod	**supplied by the engine manufacturer**	
	Steering Wheel	**-**	
	For additional stations, add	**-**	
	Pump	**45.280.00/01**	1
	Joint kit	**45.290.15**	1
Steering wheel revolutions: 4/5 Application up to: 300 hp max (non contra-rotating engines); 450 hp max (contra-rotating engines)	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2
Twin cylinder twin engine	Cylinder	**45.282.03**	2
	Pump	**45.280.03**	1
	Pipe kit	**45.290.35..**	2
	Oil	**45.027.01**	2
	Connection rod	**supplied by the engine manufacturer**	
	Steering Wheel	**-**	
	For additional stations, add	**-**	
	Pump	**45.280.03**	1
	Joint kit	**45.290.15**	1
steering wheel revolutions: 6,5 Application up to 500 hp max (non contra rotating engines); up to 600 hp (contra rotating engines)	Pipe kit	**45.290.35..**	1
	Oil	**45.027.01**	2

Cylinder 45.282.02 is not recommended if maximum speed of the boat exceeds 60 knots



Return rod Kit

This allows to adapt cylinders 45.282.00-01-11-12 to different engines.
I.E. if engine has been replaced and cylinder not.

Code	Type	For
45.282.21	LA 1	UC-128-OBF/1
45.282.22	LA 2	UC-128-OBF/2
45.282.23	LA 3	UC-128-OBF/3
45.281.24	LA1P	UC-128P-OBF/1
45.281.25	LA2P	UC-128P-OBF/2

Kit 2 flexible pipes

Blended for ouboard steering gears Ultraflex.

Code	Length m	Code	Length m	Code	Length m
45.290.35	3.5	**45.290.55**	5.5	**45.290.80**	8
45.290.40	4	**45.290.60**	6	**45.290.90**	9
45.290.45	4.5	**45.290.65**	6.5	**45.290.93**	15
45.290.50	5	**45.290.70**	7		

* *15 m, can be cut, with reusable fittings*

3/8" hose

Code	Rolls m
45.291.00	20

Kit OB-2S

Code	Description
45.290.15	For additional station or for automatic pilot installation. It includes fittings and 8 metres of 3/8" nylon hose for compensation line.

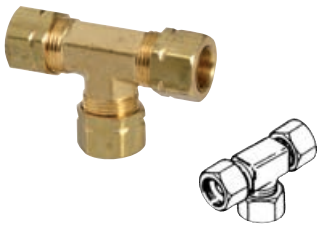
Kit 95-2S

Code	Description
45.290.16	second station joints

Nut with spinner

Code	Description
45.290.20	3/8" (61 CA)

T-joint



Code	Description
45.290.23	3/8" (TF38)

Kit including 2 high-resistance reinforced hoses, already jointed for double cylinder and double engine connection

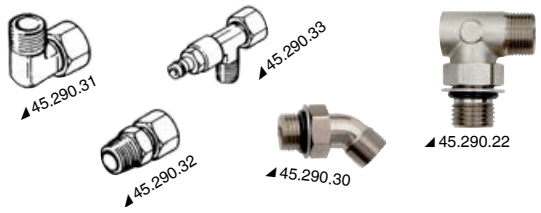
Connected with rotating nuts and stiffening sleeves.
To combine with bulkhead cross 45.028.28; 45.028.30.

Code	Length cm
45.290.11	70
45.290.12	90
45.290.13	120

Fittings for hydraulic steering systems

For all ULTRAFLEX pumps.

Code	Description
45.290.22	90° adjustable fitting
45.290.30	45° swivel fitting
45.290.31	90° 3/8" swivel fitting
45.290.32	Straight fitting for 3/8" tube
45.290.33	T fitting for 3/8" drain



ULTRAFLEX service kit for pumps and hydraulic cylinders

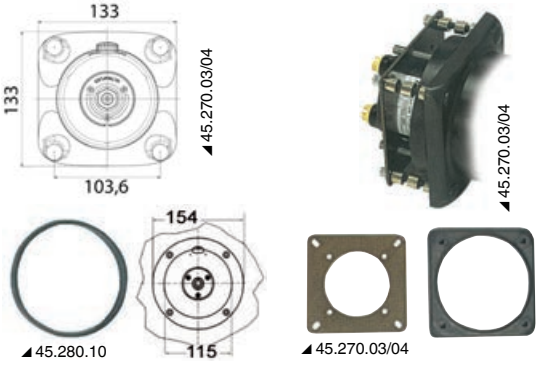
Code	Description
45.291.10	Seal kit/pump shaft UP20 (code 45.270.01)
45.291.11	Seal kit/pump shaft for pumps UP25, UP28, UP33, UP39 and UP45
45.291.20	Seal kit for cylinder UC94 code 42918X and 42958N
45.291.21	Equipment kit for UC94 cylinders with code 42918X and 42958N (needed to mount the seal without damaging the cylinder)
45.291.30	Spare head for UC128 cylinder code 39423Z, 39966R, 39967T, 40106U, 40107W (2 pcs required for each cylinder)

Flanges for hydraulic steering gears ULTRAFLEX

Code	Type	For steering systems
45.270.03*	Square (x64)	UP25F; UP28F; UP33F; UP39F; UP45F; UP28FSVS; UP33FSVS; UP39FSVS
45.270.04	Square (x74)	UP20F **
45.280.10	Round (x57)	UP25F; UP28F; UP33F; UP39F; UP45F; UP28FSVS; UP33FSVS; UP39FSVS

* *Hydraflex-like look.*

** *For pumps UP20F (45.270.01) serial number 424685, use flange x64 (45.270.03) or x57 (45.280.10).*



ULTRAFLEX Silversteer hydraulic steering system for outboard engines up to 350 HP

ULTRAFLEX
SILVERSTEER™

45.275.01/02/03

45.275.11/12/13+45.039.00

Hydraulic pump - Equipped with check valve. For mounting flanges see items 45.270.03, 45.270.04, 45.280.10.

Code	Type	Mounting	Capacity cc/rev.	Pistons	Pressure bar	steering wheel max Ø mm
45.275.01	UP28 FSVS	front	28	5	105	710
45.275.11*	UP28T-SVS	front/adjustable	28	5	105	406
45.275.02	UP33 FSVS	front	33	7	105	710
45.275.12*	UP33T-SVS	front/adjustable	33	7	105	406
45.275.03	UP39 FSVS	front	39	7	105	710
45.275.13*	UP39T-SVS	front/adjustable	39	7	105	406

* **45.039.00** *Kit X70SVS for steering wheel adjustable inclination up to 48°*

X70SVS kit

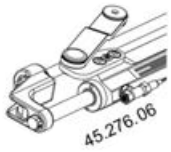
Code	Description
45.039.00	To tilt the steering wheel up to 48°.

SILVER STEER steering system installation

FOR SYSTEM	Applications	Steering wheel revolutions	Components	Code	Model	Q.ty
Single cylinder single-engine	Up to max 350 hp	4.3 (UP28) 3.6 (UP33)	Cylinder Pump pipe kit Oil	- 45.275.01/11/12/02 45.277.xx 45.027.01	UC130-SVS UP30 or UP33-SVS Kit OB-SVS 45.027.01	1 1 2 2
Single cylinder twin-engine	Non contra-rotating engines up to max 350 hp Contra-rotating engines up to max 600 hp	4.3 (UP28) 3.6 (UP33)	Cylinder Pump pipe kit Oil Connecting rod	- 45.275.01/02/11/12 45.277.xx 45.027.01	UC130-SVS UP30 or UP33-SVS Kit OB-SVS 45.027.01 A94	1 1 1 2 1
Double cylinder twin-engine	Non contra-rotating engines up to max 600 hp Contra-rotating engines up to max 700 hp	6.1 (UP33)	Cylinder Cylinder port Pump pipe kit Oil Connecting rod Connection kit	- 45.275.03/13 45.277.xx 45.027.01 45.156.11	UC130-SVS UC130P-SVS UP33-SVS KIT OB-SVS 45.027.01 A90 KIT OB-2C-SVS	2 1 1 2 4 1 1

◀ 45.276.06/08

◀ 45.276.07/09



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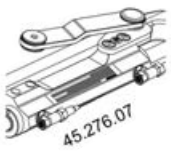

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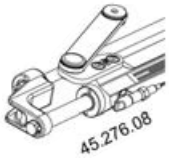

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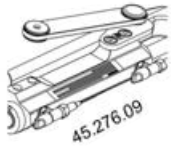

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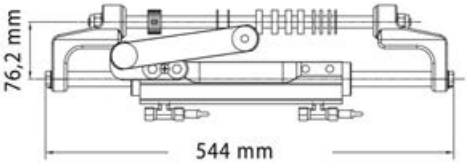


Hydraulic piston

With adjustable joints and ULTRABOLT high-resistance connecting bolt.

ENGINE	MODEL	YEAR	CYLINDER
MERCURY and MARINER	115-125-150 EFI 2S; 225-250 EFI 2S; 135-150-175 Optimax; 200-225-250 Optimax; RACING 300 Optimax; 250 Saltwater EFI 4S; 135-150-175-200 Verado L4; Fourstroke 175-200 V6; Fourstroke 225-300 V8	1990-2007; 2000-2007; 1999-now; 1999-now; - 2004-2006; -; 2018-now; 2018-now	UC128/130-SVS/1
ENVIRUDE	E115-E130-E135 2S V4 e E150-E175-E200-E200-E225-E250-E300 2S V6	1995-now	UC128/130-SVS/2
YAMAHA	115C-130B 2S; 150F-200F-250G 2S; 150 HPDI VMAX 2S; 175-200-225-250-300 HPDI VMAX 2S; F115-F150 EFI 4S; F200-F225-F250 4S; F115-F150-F175-F200 L4; F200-F225-F250-F300 F350 4S V8	1998-2008; 1996-2007; 2000-2008; 2000-2008; 1999-2007; 2002-2007; 2004-now; 2004-now; 2006-now	UC128/130-SVS/2; UC128/130-SVS/2; UC128/130-SVS/2; UC128/130-SVS/2; UC128/130-SVS/1; UC128/130-SVS/2; UC128/130-SVS/1; UC128/130-SVS/2; UC130-SVS/1
HONDA	BF135-BF150 4S; BF150 V-TEC 4S; BF175-BF200-BF225-BF250	1998-2009;&2009-now; 1998-2005; 2005-now	UC128/130-SVS/1; UC128/130-SVS/1; UC128/130-SVS/1
SUZUKI	DF100-115-140 4S*; DF150-175-DF200 L4 4S; DF200-DF225-DF250-DF300 DF350	2008-now; 2006-now; 2004-now; 2006-now	UC128/130-SVS/1; UC128/130-SVS/1; UC128/130-SVS/1; UC130-SVS/2
TOHATSU	115-120-140 2S; 70-90-115 TLDI 4S; BFT60-75-90	1998-2008; 2008-now; 2006-now; 2004-now; 2004-now	UC128/130-SVS/1; UC128/130-SVS/2; UC128/130-SVS/1; UC128/130-SVS/1
SELVA	80 Portofino/Tigershark 2S; 150 White Shark 2S; 100EFI Marlin -115 EFI Narwhal-; 150EFI Killer Whale 4S	1995-2008; 2001-2007; 2000-now; -	UC128/130-SVS/1; UC128/130-SVS/2; UC128/130-SVS/1
JOHNSON	BJ90-115-140 4S; J90-115 V4 2S; J150-175 V6 2S; J200-225 V6 4S	2001-2007; 1995-2007; 1995-2007; 2004-2007	UC128/130-SVS/1; UC128/130-SVS/2; UC128/130-SVS/2; UC128/130-SVS/2

**NOTE: When ordering cylinder UC130-SVS/1 for Suzuki® models manufactured from 1998 to 2008 (old model), please, also order adjusting KIT 45.419.54.*

Code	Type	Mounting	Volume cc	Thrust kg	Stroke mm	Fittings
45.276.06	UC130/2 - SVS	-	130	492	185	3/8
45.276.07*	UC130P/2 - SVS	-	130	492	185	3/8
45.276.08	UC130/1 - SVS	-	130	492	185	3/8
45.276.09*	UC130P/1 - SVS	-	130	492	185	3/8

* *For applications with double cylinder (bimotor), cylinder with left symmetrical fitting.*

Pair of SILVER STEER high-pressure hoses

Kit including a pair of high-resistance hoses reinforced with pre-crimped fittings and anti-crush reinforcing sleeves.

Code	Type	Length m
45.277.15	OB-SVS-15	1.5
45.277.30	OB-SVS-30	3
45.277.40	OB-SVS-40	4
45.277.55	OB-SVS 55	5.5
45.277.60	OB-SVS 60	6
45.277.65	OB-SVS 65	6.5

Coupling rods

For outboard engines, made of stainless steel.

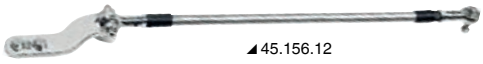
Code	Steering systems	Type	Engine to engine mm
45.156.08	hydraulic/mechanical	**A92**, easily adjustable, for small spaces	550/700
45.156.09	hydraulic/mechanical	**A92**, easily adjustable, for small spaces	700/950
45.156.10	hydraulic/mechanical	**A88**	650/950

Outboard engine/hydraulic steering coupling rod

For outboard engines, made of stainless steel.

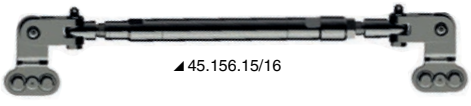
Code	Model	Cylinder	Engines	Independent tilting	Engine centre distance mm
45.156.11	A90	Double	2	No	660/950
45.156.12	A94	Single	2	Yes	660/950
45.156.19	A96-29	Single	2	Yes	660/736
45.156.20	A96-34-5	Single	2	Yes	736/873
45.156.15	A95-32	Double	2	Yes	660/813
45.156.16	A95-375	Double	2	Yes	813/952
45.156.17	A97-30	Double	3	Yes	660/762
45.156.18	A97-35.5	Double	3	Yes	762/901

◢45.156.11



◢45.156.12

◢45.156.19/20



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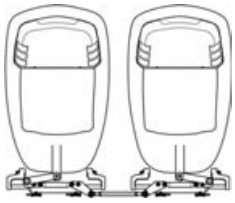

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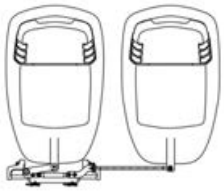

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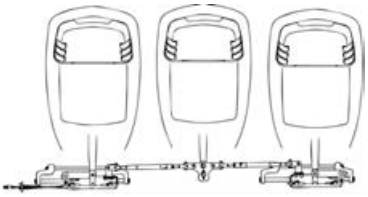

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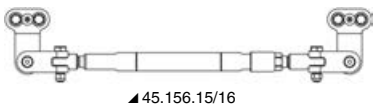
◢45.156.17/18



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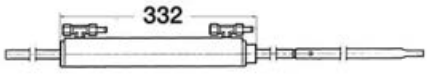
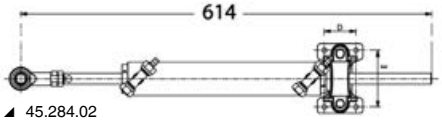


45.286.01; 45.282.03

45.284.02



45.284.02

Hydraulic cylinder for inboard/outboard engines

Trimmed version. It matches pumps **45.280.00/01/02/03/33/04/07/08**.

Applications

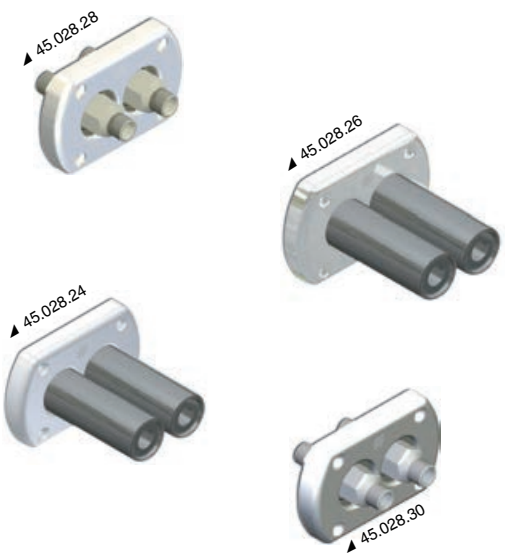
Engine	Year	Foot model	INBOARD-OUTBOARD CYLINDERS			
			non-assisted steering engine	notes	assisted steering engine	notes
MERCRUISER ®	Current	ALPHA; BRAVO ONE; BRAVO TWO; BRAVO THREE.	UC133-IOB	1.3	UC132-OBS	2
VOLVO®	Up to now; Up to now; Up to now; Current; Current; Current.	275; 280; 290; DP-E; DP-G; DP-S	UC168-I; UC133-IOB; UC133-IOB; UC133-IOB; N/A; N/A	-; 1, 3, 4; 1, 3, 4; 1, 3, 5; -; -	N/D; UC132-OBS; UC132-OBS; UC133V-IOB; UC133V-IOB; UC132-OBS	-; 2; 2; -; -; 2

1. Trimmed cylinder (the total number of steering cycles is equal from either straight of right or vice-versa).
2. Non-trimmed cylinders (the total number of steering cycles isdifferent between straight and left or vice-versa).
3. Minimum side space for installing cylinder: 540 mm (21.2").
4. ULTRAFLEX hydraulic cylinder can be installed only by replacing the mechanical steering gear with cable.
5. Installation requires VOLVO adaptor P.N. 872388.

Code	Initials	Version	Torque Kgm	Thrust kg	Stroke mm	Volume cc	Torque kgm	Nylon pipe joints
45.286.01	UC-133-IOB	Trimmed cylinder	66	464	203	132	66	3/8"
45.282.03	UC-132-OBS	Non-trimmed cylinder	66	464	203	-	-	-
45.284.02	UC168-I	-	87	673	178	168	87	-

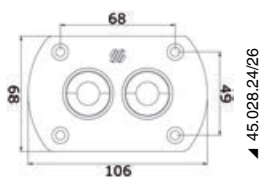
Technical specifications and buying tips for steering systems 45.286.01/02/04.

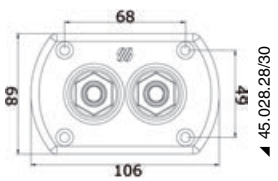
Components	Model	Q.ty	Notes
A system - Band-to-band revolutions: Balanced 4.7 - Non Balanced 4.7/5.8. Max torque: 66 kgm - 5738 lbs. in			
-	45.280.01/02/03/33/04/07	1	For a second station, add: 1 pump 45.280.01/07, 1 joint KIT 45.290.15, 1 pipe KIT 45.290.35/40/45/50/55/60/65/70/80, extra 45.027.00, 1 steering wheel.
-	See applications	1	
-	45.290.35/40/45/50/55/60/65/70/80	1	
-	45.027.01	4	
-	(Steering wheel selection)	1	
B system - Band-to-band revolutions: Balanced 4 - Non Balanced 4/5. Max torque: 66 kgm - 5738 lbs. in			
-	45.280.02	1	For a second station, add: 1 pump 45.280.02, 1 joint KIT 45.290.15, 1 pipe KIT 45.290.35/40/45/50/55/60/65/70/80, extra 45.027.01, 1 steering wheel.
-	See applications	1	
-	45.290.35/40/45/50/55/60/65/70/80	1	
-	45.027.01	4	
-	(Steering wheel selection)	1	



Bulkhead troughout twin bush, waterproof

Code	Base color	For pipes
45.028.24	White	Pass through
45.028.26	- Chromed	Pass through
45.028.28	White	Twin connection
45.028.30	- Chromed	Twin connection





► ULTRAFLEX hydraulic steering systems for inboard engines

ULTRAFLEX hydraulic pump for inboard engines

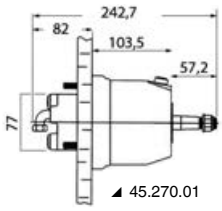
Fitted with check valve.
For mounting flanges, see items 45.270.03; 45.270.04; 45.280.10.

Code	Initials	Mounting	Flow/ revolution cc	Pistons	Pressure bar	Steering wheel max Ø mm	Joints	kg
45.270.01	UP20F	front	20	5	70	710	3/8"	4
45.280.00	UP25F	front	25	5	70	710	3/8"	5
45.280.01	UP28F	front	28	5	70	710	3/8"	5
45.280.02	UP33F	front	33	5	70	710	3/8"	5
45.280.03	UP39F	front	39	7	70	710	3/8"	5
45.280.33	UP45F	front	45	7	70	710	3/8"	5
45.280.07	UP28R	rear-dashboard	28	5	70	710	3/8"	5
45.280.04	UP33R	rear-dashboard	33	7	70	710	3/8"	5
45.280.08	UP39R	rear-dashboard	39	7	70	710	3/8"	5
45.280.05	UP39-IR	rear-dashboard	39	7	70	710	12 mm*	-
45.280.06	UP45-IR	rear-dashboard	45	7	70	710	12 mm*	-

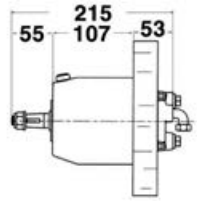
* *For copper pipe 45.028.11*

45.270.08 *X68 chromed flange for hydraulic pumps*

45.270.07 *"F" kit for easier filling up and cleaning of hydraulic pumps*

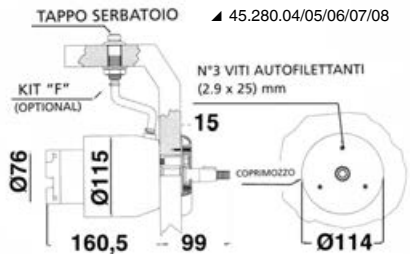


45.270.01



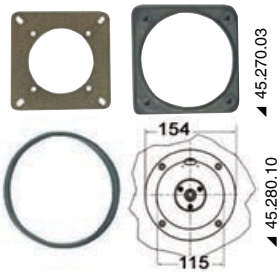
45.280.01/02/03/33

45.280.01/02/03/33

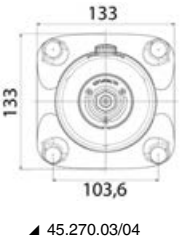


45.280.04/05/06/07/08

45.280.04/05/06/07/08



45.270.03
45.280.10



45.270.03/04

45.270.03/04

Hydraulic cylinder for inboard engines

Trimmed version

Code	Initials	Stroke mm	Pipe joints	⟷ mm							Volume cc	Thrust kg	Max torque kgm	Balanced
				A	B	C	D	E	F	G				
45.271.06	UC69-I	150	3/8" nylon	150	129	105	417	31.3	40	73	69	168	32	Yes
45.284.01	UC116-I	178	3/8" nylon	178	155	127	466	102	40	73	116	464	58	Yes
45.284.02	UC168-I	178	3/8" nylon	178	155	127	512	107	40	105	168	673	87	Yes
45.284.03	UC215-I	228	3/8" nylon	228	199	163	587	132	40	105	215	673	111	Yes
45.284.05	UC293-I	178	3/8" nylon	178	163	134	506	107	40	125	293	1155	146	Yes
45.284.06	UC339-I	230	12 mm copper*	230	200	164	637	147	70	110	339	1051	172	Yes
45.284.07	UC378-I	228	12 mm copper*	228	199	163	592	132	40	125	376	1155	188	Yes
45.284.08	UC442-I	300	12 mm copper*	300	260	212	749	183	70	110	442	1051	223	Yes
45.284.09	UC530-I	250	12 mm copper*	250	218	178	723	168	120	104	530	1513	270	Yes

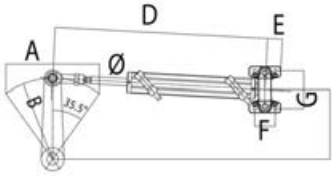
* **45.028.12** *12-mm copper pipe*

45.271.06

45.284.01/02/03

45.284.05/07

45.284.06/08



45.284.09

Kit of 2 x jointed hoses

Suitable for 45.271.06/284.01/02/03/05.

Code	Length m	Code	Length m	Code	Length m
45.290.35	3.5	**45.290.55**	5.5	**45.290.80**	8
45.290.40	4	**45.290.60**	6	**45.290.90**	9
45.290.45	4.5	**45.290.65**	6.5		
45.290.50	5	**45.290.70**	7		

Kit including 2 reinforced hoses connected at one end

Suitable for 45.271.06/284.01/02/03/05. Equipped with 2 sleeves and 2 reusable connections to install at one end after cutting off the hose at the desired length.

Code	Length m
45.290.92	9
45.290.93	15

Kit OB-2S

For cylinders 41.271.06/284.01/02/03/05.

Code	Description
45.290.15	For additional station or for automatic pilot installation. It includes fittings and 8 metres of 3/8" nylon hose for compensation line.

Kit 95-2S

Code	Description
45.290.16	second station joints

Kit for additional station or automatic pilot

For cylinders and copper pipes.

Code	KIT for	
	cylinders	copper pipes Ø mm
45.290.17	**45.284.06; 45.284.07; 45.284.08; 45.284.09**	12

► Hydraulic steering system accessories

LUBRIMAR Hydraulic Oil foamless product

Foamless hydraulic oil containing anti-corrosion additives resistant to high pressure.
Suitable for topping up.

Code	Package
65.089.00	250 ml

Hydraulic Oil ISO VG15

This product is ideal for steering systems by ULTRAFLEX, TELEFLEX, MANCINI, etc. Additive-improved formula to boost the pump and seal performance. Resistant to high pressure and corrosion.

Code	Package
45.027.01	1 l

Copper pipe

Ø 6x8 mm	Ø 8x10 mm	Ø 10x12 mm	Roll m
45.028.11	**45.028.10**	**45.028.12**	50

Recoverable copper joints

Used to connect nylon pipe size 5/16 (45.028.14 or similar) standard for steering gears.

Code	Type
45.028.18	straight
45.028.19	90°

High pressure nylon pipe size 5/16" R7

Code	Description	Roll m
45.028.14	For all Vetus steering systems except item 45.030.10	24

Bulkhead troughout bush

Code	Material	For hydraulic hose
45.028.22	Black Nylon	45.028.14
45.028.23	Black Nylon with stainless flange	45.028.14

CROSS REFERENCE

Pumps/POMPE				Cylinder/CILINDRI	
ULTRAFLEX®	SEASTAR®	ULTRAFLEX®	SEASTAR®	ULTRAFLEX®	SEASTAR®
UP18	BayStar™ HH4311	UP39 F	Seastar™ 2.4 HH5272	UC81-OBF	-
UP20 F	BayStar™ HH4314	UP39 T	Seastar™ 2.4 HH6542	UC94-OBF	BayStar™ HC4645
UP20 T	BayStar™ HH4315	UP39 R	Seastar™ 2.4 HH5262	UC128-OBF	Seastar™ HC5345
UP25 F	Seastar™ 1.4 HH5269	UP45 F	Seastar™ 3.0 HH5283	UC130-SVS	Seastar™ HC6345
UP25NV F	-	UP45 T	-		
UP25 T	Seastar™ 1.4 HH6544	UP45 R	Seastar™ 3.0 HH5265	UC68-OBS	-
UP28 F	Seastar™ 1.7 HH5271	UP28 F-SVS	Seastar™ PRO HH5779	UC132-OBS	Seastar™ HC5370/5328
UP28 T	Seastar™ 1.7 HH6541	UP28 T-SVS	Seastar™ PRO HH6573		
UP28 R	Seastar™ 1.7 HH5261	UP33 F-SVS	Seastar™ PRO HH5770	UC69-I	BayStar™ HC4461-3
UP33 F	Seastar™ 2.0 HH5273	UP33 T-SVS	Seastar™ PRO HH6574	UC116-1	Seastar™ HC5312
UP33NV F	Seastar™ 2.0 HH5760	UP39 F-SVS	Seastar™ PRO HH5772	UC168-I	Seastar™ HC5314
UP33 T	Seastar™ 2.0 HH6543	UP39 T-SVS	Seastar™ PRO HH6188	UC215-I	Seastar™ HC5319
UP33R	-			UC293-I	-
				UC378-I	-

Applications for hydraulic steering systems

APPLICAZIONI SISTEMI DI GUIDA IDRAULICI — HYDRAULIC STEERING SYSTEM APPLICATIONS

LUNGHEZZA BARCA / Boat length	FINO a UP to 10 m (33')	FINO a UP to 10 m (33')	FINO a UP to 10 m (33')	10 ÷ 12 m (33' ÷ 40')	10 ÷ 12 m (33' ÷ 40')	12 ÷ 14 m (40' ÷ 46')	14 ÷ 16 m (46' ÷ 53')	16 ÷ 18 m (53' ÷ 59')	18 ÷ 20 m (59' ÷ 66')
CILINDRO Cylinder	45.271.06	45.284.01	45.284.02	45.284.03	45.284.05	45.284.06	45.284.07	45.284.08	45.284.09
POMPA/Pumps	UC69-I	UC116-I	UC168-I	UC215-I	UC293-I	UC339-I	UC378-I	UC442-I	UC530-I
45.270.01/02 UP20	3,5 N - 3/8"								
45.280.00 UP25		4,6 N - 3/8"	6,72 L - 3/8"	8,6 L - 3/8"					
45.280.01 UP28		4,1 M - 3/8"	6 N - 3/8"	7,6 L - 3/8"					
45.280.02 UP33		3,5 H - 3/8"	5,1 M - 3/8"	6,5 N - 3/8"	8,8 L - 3/8"				
45.280.03 UP39			4,3 H - 3/8"	5,5 M - 3/8"	7,5 N - 3/8"				
45.280.05 UP39-I R						8,6 N - R7	9,6 L - R7		
45.280.33 UP45					6,5 M - 3/8"				
45.280.06 UP45-I R						7,5 M - R7	8,4 N - R7	9,8 N - R7	11,5 L - R7

Giri volante da banda a banda Steering wheel turn	Sensazione al volante / Feeling at the wheel	Tipo di tubi = Hose type
	L=LEGGERO / LIGHTWEIGHT	3/8" = 45.290.35/40/45/50/55/60/65/70/80
	N=NORMALE / REGULAR	
	M=MEDIO / MEDIUM	R7 = rame / copper 45.028.11

ATTENZIONE: queste indicazioni sono di carattere generale. La scelta della corretta applicazione va fatta con l'assistenza di installatori qualificati. Per ogni ulteriore informazione, si prega di contattare il nostro Servizio Assistenza.

ATTENTION: these are indications of a general nature. The correct application shall be chosen upon recommendation by qualified installers. For further details, please contact our After-Sales Service.

► AISI 316 stainless steel tent accessories

Bimini accessories

OSCULATI

AISI 316 Made of mirror polished **AISI316 stainless steel**.

Description	For pipes Ø mm				
	20	22	25	25 (Heavy Duty)	30
	6-mm pin/bore			8-mm pin/bore	
Internal end cap	-	46.659.95	-	-	-
End cap	46.660.00	46.661.01	46.861.03	46.122.21	46.761.03
Raised end cap	-	46.661.05	46.861.05	-	-
Fork joint	46.660.01	46.661.00	46.861.02	46.122.11	46.761.02
Bent fork joint	46.662.22	46.662.22	46.662.22	-	-
90° fork joint	46.861.04	46.861.04	46.861.04	46.516.00	46.516.00
90° fork joint with removable spring pin	46.662.20	46.662.20	46.662.20	-	-
Bent fork joint with removable spring pin	46.662.21	46.662.21	46.662.21	-	-
Concave base for support for 20- to 25-mm Ø pipes	46.563.00	46.563.00	46.563.00	-	-
Concave base for support for 20- to 25-mm Ø pipes and removable spring pin	46.862.00	46.862.00	46.862.00	-	-
Concave base for support for 40-mm Ø pipes and removable spring pin	46.863.00*	46.863.00*	46.863.00*	-	-
43x51 mm bulkhead mount support	46.403.00	46.403.00	46.403.00	-	-
48x73 mm bulkhead mount support	46.404.01	46.404.01	46.404.01	46.404.00	46.404.00
Fixing base for hoods with 62x25-mm 40° wing slope	46.659.00	46.659.00	46.659.00	-	-

* *To be mounted on 40-mm Ø tubes.*

Reinforced joints with double setscrew

AISI 316 Mirror-polished AISI 316 stainless steel.

Description	For hose Ø		
	22 mm	25 mm	30 mm
	6-mm pin/bore	6-mm pin/bore	5.5-mm pin/bore
End cap	46.685.22	46.685.25	46.685.30
Fork joint	46.686.22	46.686.25	46.686.30

STREAM LINE joints for awnings

AISI 316

Made of **mirror polished AISI 316 stainless steel**, new faired version.
6-mm pin/bore.

Base with			End cap	Swivel with ear	For tubes Ø mm
removable snap fork**	removable snap ear*	ear*			
-	-	-	**46.650.22**	**46.651.22**	22
46.654.22	**46.653.22**	**46.652.22**	-	-	22/25
-	-	-	**46.650.25**	**46.651.25**	25

* **46.650.22/25** *Terminal caps OPTION*

** **46.600.00;46.661.01; 46.861.03; 46.761.03** *Awning caps OPTION*

Range of bimini fixing components with ball joints

AISI 316

Nylon rotation seat; the two parts can be separated quickly by slipping off the special safety pin; made of mirror **polished AISI 316 stainless steel.**

Code	Description	For tubes Ø mm
46.680.00	93x40-mm flat base	-
46.680.10	Openable base for mounting on tube	25
46.680.20	90° cap	25
46.680.21	Straigth cap	25

Telescopic pole for perfect bimini tension

AISI 316

Made of **mirror polished AISI 316 stainless steel**; allows the user to put erect the awning to the perfect tension every time **without dismantling**.

Code	For pipes Ø mm	Length when closed mm	Stroke mm	Bore Ø mm
46.800.22	22	135	30	6
46.800.25	25	135	30	6
46.800.30	30	144	32	6

Terminal caps

AISI 316

Suitable for **adjustable eye** hood pipes and with **15 mm travel**; adjusts the awning perfectly; made of **mirror polished AISI 316 stainless steel**.

Code	For pipes Ø mm	Bore Ø mm
46.700.22	22	6
46.700.25	25	6
46.700.30	30	6

Fork joints for 3-arc frame

AISI 316

Made of mirror-polished AISI 316 stainless steel.
These joints are designed for large 3-arc frame biminis.

Code	Hose Ø mm	Centre distance A mm	Ref. cap
46.761.02	30	40	46.761.03
46.761.05	30	73	46.761.03
46.761.06	30	113	46.761.03

Internal 90° swivelling joints

AISI 316

For hood pipes; made of mirror polished **AISI 316 stainless steel**.

Code	For pipe Ø mm
46.320.12	20x1,2
46.322.12	22x1,2
46.320.15	20x1,5
46.322.15	22x1,5

90° external swivelling joints

AISI 316

Suitable for awning pipes, made of mirror polished **AISI 316 stainless steel**.

Code	For pipe Ø mm
46.330.22	22
46.330.25	25

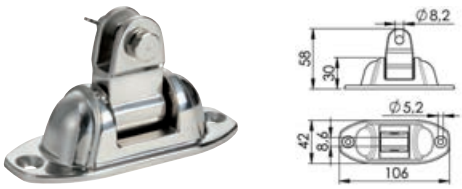
90° external joint with lock

AISI 316

Suitable for awning pipes, made of mirror polished **AISI 316 stainless steel**, fitted with locking pin.

Code	For pipe Ø mm
46.330.30	30

OSCULATI



180° articulated joint for bimini tops

AISI 316

Made of mirror-polished AISI 316 stainless steel, high-resistance version for large bimini tops with 25/30-mm tube frame

Code	Base mm	Pin mm
46.667.00	106x42	8

Swivelling 180° hood junction

AISI 316

Made of **AISI 316 stainless steel**, includes plastic base.

Code	Length mm	With screw mm
46.665.00	70	6

37.264.10 *Pin INCLUDED*

Awning base

OSCULATI

AISI 316

Made of **AISI 316 stainless steel**, fitted with retrievable fork pin.

Code	Base mm	For tubes Ø mm	Pin mm
46.670.00	90x40	22/25	6

OSCULATI

Snap base for biminis or awnings

AISI 316

Snap hooking system.

Code	Description	For tube Ø mm	Pin mm
46.670.10	90x40-mm external base	22/25	6
46.670.20	54x29-mm recess fit base	22/25	6

Fork

AISI 316

Made of **polished AISI 316 stainless steel**, suitable for awning **gunwale**-mounting on dinghies.

Code	Pivot Ø mm
46.662.00	12x23

Hood sleeve coupling

AISI 316

Made of mirror-polished **AISI 316 stainless steel**.

For tubes Ø mm	With lock pin	With spring lock	Length mm	Screw / pin mm
22	**46.978.00**	**46.978.01**	73.5	6
25	**46.978.10**	**46.978.11**	75.7	6
30	**46.978.20**	**46.978.21**	85	6

Bimini sliding bracket

AISI 316

Made of mirror polished AISI 316 stainless steel, fitted with cam quick clamping system.

Code	For tubes Ø mm	Pin mm
46.978.50	22	6
46.978.51	25	6

Sliding awning clamps

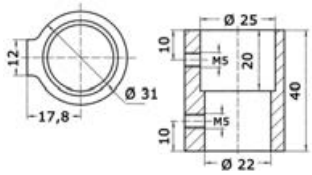
Enables for the hood to slide back and forth, made of **chromed brass and fitted with stainless steel screws**.

Code	Mounting on tube Ø mm	Pin mm
46.185.22	20/22/25	5

Connectors for Bimini poles

It combines two Ø 22/25-mm tubes without weld, or makes them telescopic by fitting one into the other. Mirror-polished AISI 316 stainless steel.

Code	For hoses Ø mm
46.658.00	22/25



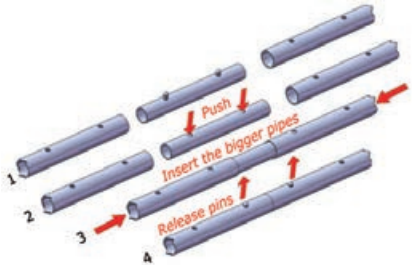
Straight line pole connectors, fitted with two spring lock buttons

To be mounted inside the pipe. Mirror polished AISI 316 stainless steel.

Code	Length mm	For pipe Ø mm
48.420.36	150	22x1.2
48.420.37	150	25x1.2

◢ 48.420.37

◢ 48.420.36-37



Stay kit for for spray hood or bimini

Mirror polished AISI 316 stainless steel

Code	Ø hose mm	Kit components
46.657.22	22	cm 100x2 hose Ø 22 41.613.01 + 4 pcs 46.661.01 + 2 pcs 46.661.00 + 2 pcs 46.662.20
46.657.25	25	cm 100x2 hose Ø 25 41.618.01 + 4 pcs 46.861.03 + 2 pcs 46.861.02 + 2 pcs 46.662.20

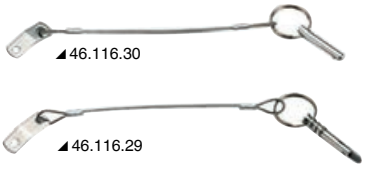
Telescopic stays for biminis (pair)

Made of Ø 22/25-mm mirror-polished stainless steel, they support the tent rear side.

Code	Hose Ø mm	Travel cm	Kit contains
46.656.00	22/25	75/120	46.661.01 (2) + 46.861.03 (2) + 46.662.20 (2) + 46.661.00 (2) + 46.658.00 (2) + 41.618.00 120 cm (60x2) + 41.613.00 120 cm (60x2)

◢ Installation type

Stainless steel plate + stainless steel cable Ø size 1.6 mm + stainless steel pin



Used to remove boat hoods, suitable for all of our hood fork supports.

Code	Version
46.116.30	Version with spring ball locking pin (series 37.264.xx)
46.116.29	Version with spring folding pin (46.116.31)

Drop nose pin

Made of **stainless steel**, suitable for U-bolts hood supports, with spring loaded locking mechanism.

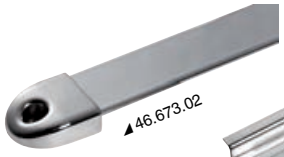
Code	Ø mm	Operating length
46.116.31	6	20

Traveller system for awnings / spray hoods

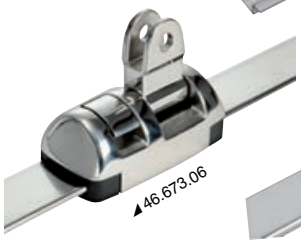
AISI 316

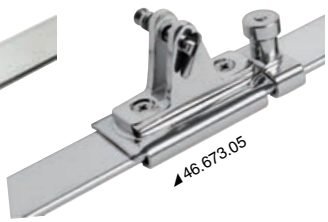
100% AISI 316 stainless steel.
Made of a 2-pc rail that fully hides the fixing screws.
The different types of support are installed on a stainless steel traveller whose stop has a 15-mm pitch.

Code	Description	Pin / bore mm
46.673.00	30x1200-mm rail	-
46.673.02	Terminal for rail (order 2 pcs per rail)	-
46.673.05	Traveller with fork joint 46.662.20	6
46.673.06	High-resistance traveller. 180° articulation, for large bimini tops with 25/30-mm tubes frame	8


◢ 46.673.02

◢ 46.673.00


◢ 46.673.06


◢ 46.673.05

LEWMAR ball traveller for awnings/spray hoods and sliding doors

Specially designed for this purpose it is made of anodized aluminium with Delrin balls, saving profile and flat holding surface with 2 M6 threaded holes.

Code	Description	Width mm	Length mm	Height mm	Hole centre distance mm	Working load kg
46.674.01	traveller	51	124	26	35	450
46.674.30	track	19	2986	11	80	-
46.674.40	end stop	51	20	-	-	-

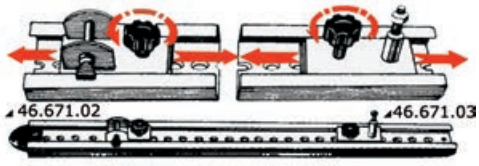
Ball bearing travellers for sliding roofs and sliding doors

Made of heavy **anodized aluminium** with PTFE ball bearing, assure excellent swivelling movement even under high loads; fitted with two 5 MA threaded holes. Suitable for travellers 62.940.08.

Code	width mm	Projection mm	Length mm	Max working load kg
46.675.01	51	20	83	220
46.675.03	51	20	105	260

62.940.08 Rail mm 19x13,4, 2 metre bars (4 metres on demand), In light anodized alloy.

62.940.09 Rail nylon terminal end 62.940.08



Traveller sliding system for awnings

The system is made up of:

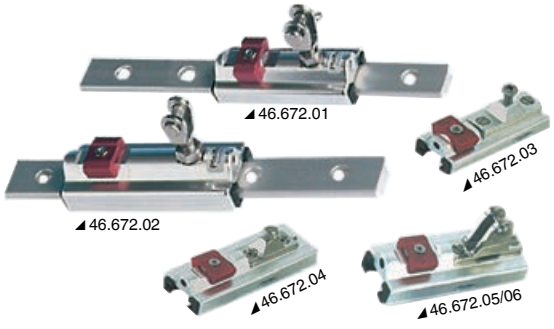
Code	Description
46.671.00*	Rail in **Stainless Steel**, 100 cm , dimensions mm 28x9 (outside)
46.671.01	End in **plastic** for rail
46.671.02**	Sliding plate in **stainless steel** with screw lock and **"U" hinge**
46.671.03**	Sliding plate in **stainless steel** with **pivot** lock for wall mounting

* *The rail can be cut.*
** *Suitable for fixing hoods; universal model, suitable for surface mounting.*

Awning slider

Made of **anodized aluminium**; swivelling fork joint suitable for working on a **flat surface** and on the **wall**. Spring lock for fast movement, internal **nylon** slides to provide a perfect sliding movement, quick awning mounting pin.

Code	Version
46.669.00	85x35x35-mm slider (overhang) with 6-mm pin
61.591.01	25x4-mm **aluminium** rail for slider 46.669.00 (2-m bars)
61.591.43	**Black nylon** terminal for 61.591.01



Adjustable sliding travellers suitable for hull awning sizes from 10 meters or higher

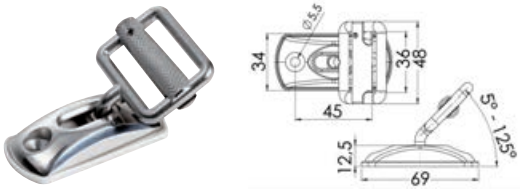
Made of **anodized aluminium**, fitted with **stainless steel** awning bracket and internal nylon slide, antifriction and noise-proof (track to be ordered separately).

Code	Description	Pin / bore mm
46.672.01	Fork bracket for 25x4-mm track (art. 61.591.01)	6
46.672.02	Fork bracket for 32x6-mm track (art. 61.591.02)	8
46.672.03	Bulkhead mount bracket for 25x4-mm track (art. 61.591.01)	-
46.672.04	Bulkhead mount bracket for 32x6-mm track (art. 61.591.02)	-
46.672.05	Fork fixed bracket for 25x4-mm track (art. 61.591.01)	6
46.672.06	SS fork fixed bracket for 32x6-mm track (art. 61.591.02)	6

Turnbuckle for awning ropes

Made of polished stainless steel, it adjust the fastening ropes of awnings.

Code	⟷ mm
46.377.40	55x12



Buckle for tapes

AISI 316

Made of polished AISI 316 stainless steel, with **removable** and 5° to 125° **balancing** buckle.

Code	For tapes max mm	Base mm	Hole centres mm
46.670.60	30	69x34	45

Bimini base with EPDM support for inflatables

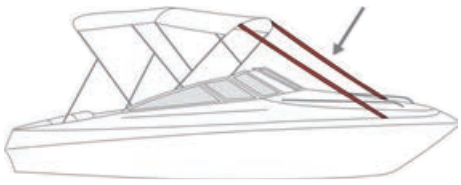
The EPDM support is designed to be sticked on the inflatable chambers.

Code	Type	Material	Support colour	For tube Ø mm	⟷ support mm	SS base used
46.670.30	Base and support	EPDM + SS	Light grey RAL 7035	22/25	188x135	**46.670.00**
46.670.40	Base and support	EPDM + SS	Light grey RAL 7035	22/25	188x135	**46.670.10**

New Bimini top tensioning strap kit

It includes a 25-mm wide and 3-m long tape (2.90-m usable length).
Snap hook and strap on one end for fixed adjustment, snap hook on the other end for tensioning.
Sold in pairs in display package.

Code	⟷ cm	Package
46.677.00	2.5 x 300	2 pcs



► Plastic bimini accessories

Made of nylon, suitable for pipe Ø size 20mm

Code	Description	
46.629.00	90° articulated joint	1 pcs
46.630.00	170° articulated joint	Pair
46.631.00	Nylon pin	1 pcs
46.632.00	Nylon base	1 pcs
46.633.00	Nylon rowlock socket	1 pcs

Fitting for 22-mm Ø tube.

Code	Description	Pin / bore mm
46.377.03	Sliding joint and clamps	6
46.377.13	End cap	6
46.377.21	Side plate	6
46.377.31	Fork base	6

Spare components for bimini tops

Made of white nylon

Code	Description	Tube Ø mm	Reference bimini top
46.625.02	Hose terminal	22	46.908.xx; 46.909.xx; 46.918.xx
46.625.03	Rowlock	-	46.908.xx; 46.909.xx; 46.918.xx
46.625.04	Bushing	-	46.908.xx; 46.909.xx; 46.918.xx
46.625.05	Bend articulation	22	46.908.xx; 46.909.xx; 46.918.xx
46.625.06	Arm articulation	22	46.908.xx; 46.909.xx; 46.918.xx

► Anodized aluminium bimini accessories

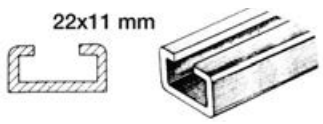
Suitable for tubes Ø 20 mm

Code	Descrizione
46.931.00	Eye terminal
46.932.00	Clamp joint
46.933.00	Plate to be fixed with 2 screws and a "U" bolt
46.934.00	Wall mounting bracket, stainless steel
46.787.20	Hinge for bracket

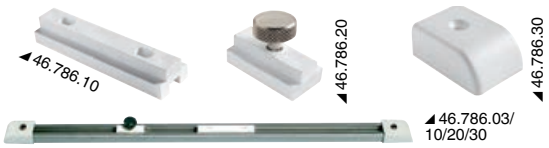
Aluminium travellers, nylon sliders

Suitable to slide and shift the boat awning foot.

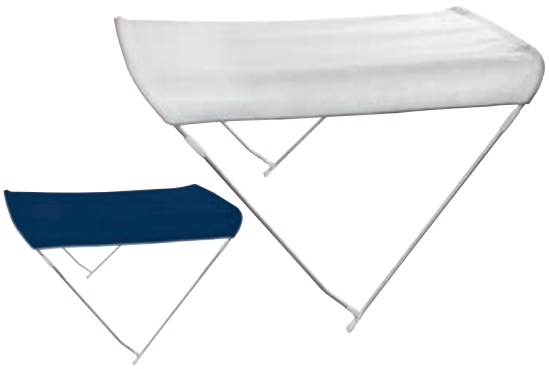
Code	Long m	⟷ mm
46.786.03	1	22x11



Code	Description
46.786.10	Nylon plate sliding in track to fasten plate 46.934.00 or 46.933.00
46.786.20	Nylon stop to lock tent in preset position
46.786.30	Nylon track terminal



► Folding BIMINI with anodized aluminium structure



2-arch bimini top

Reinforced anodized aluminium tubes, **22-mm Ø tube**.
Cover made of **waterproof and UV-resistant** 600D polyester/polyurethane fabric.
It comes in a case to protect the fabric during stowage.

white	navy blue	Depth cm	Height cm	Width cm
46.901.21	46.901.31	180	110	130/140
46.901.22	46.901.32	180	110	150/160
46.901.23	46.901.33	180	110	175/185

3 arch bimini top

Anodized aluminium frame, **22-mm Ø tube.**
Cover made of waterproof and UV-resistant 600D polyester/polyurethane fabric.
It comes in a zipped case to protect the fabric when the bimini top is closed.

White	Navy blue	Depth cm	height cm	Width cm
46.908.20	46.908.30	180	115	150/160
46.908.21	46.908.31	180	115	170/180
46.908.22	46.908.32	180	115	185/195
46.908.23	46.908.33	180	115	200/210
46.908.24	46.908.34	180	115	220/230

3-arch folding bimini top, tall version

Anodized aluminium frame, **22-mm Ø tube.**
Cover made of waterproof and UV-resistant 600D polyester/polyurethane fabric.
It comes in a zipped case to protect the fabric when the bimini top is closed.

White	Navy blue	Depth cm	Height cm	Width cm
46.909.40	46.909.50	180	145	150/160
46.909.41	46.909.51	180	145	170/180
46.909.42	46.909.52	180	145	185/195
46.909.43	46.909.53	180	145	200/210
46.909.44	46.909.54	180	145	220/230

BIMINI DEPTH 4-arch sunshade

Anodized aluminium structure, **22-mm Ø tube**.
600D polyester/polyurethane fabric, waterproof and UV-resistant.
It comes in a zipped case to protect the fabric when the Bimini Top is closed.

White	Navy blue	Depth cm	Height cm	Width cm
46.918.02	46.918.12	250	145	175/185
46.918.04	46.918.14	250	145	190/200
46.918.06	46.918.16	250	145	205/215
46.918.08	46.918.18	250	145	220/230
46.918.10	46.918.20	250	145	235/245

► Foldable biminis with AISI 316 stainless steel frame

SHADE MASTER FLY INOX DEPTH 4-arch folding bimini top

AISI 316

Fitted with 25-mm Ø tubes and AISI 316 stainless steel joints.
Foldable frames, **waterproof and UV-resistant** polyester/PVC fabric, **blue navy** colour. Case included. Foldable and removable.
Made in Italy.

Code	Depth cm	Height cm	Width cm
46.915.10	255	140	175/190
46.915.11	255	140	195/210
46.915.12	255	140	215/230
46.915.13	255	140	235/250
46.915.14	255	140	255/270

WATERPROOF UV resistant

3-arch Bimini

Made of polished AISI316 stainless steel 25-mm Ø tube.
AISI316 stainless steel fittings.
Foldable arches.
Waterproof and UV-resistant 600D polyester/polyurethane fabric.

White	Navy blue	Depth cm	Height cm	Width cm
46.920.02	**46.920.12**	180	145	170/180
46.920.03	**46.920.13**	180	145	185/195
46.920.04	**46.920.14**	180	145	200/210
46.920.05	**46.920.15**	180	145	215/225
46.920.06	**46.920.16**	180	145	245/255

◢ Mounting kit included

UV resistant WATERPROOF

BIMINI DEPTH high 4-arch sunshade

Made of 25-mm Ø polished AISI316 stainless steel tube. AISI316 stainless steel fittings.
Folding arches. **UV-resistant and waterproof** 600D polyester/polyurethane fabric.
It can be disassembled and folded away into its case.

White	Navy blue	Depth cm	Height cm	Width cm
46.921.10	**46.921.20**	250	145	180/190
46.921.11	**46.921.21**	250	145	200/210
46.921.12	**46.921.22**	250	145	220/230
46.921.13	**46.921.23**	250	145	240/250
46.921.14	**46.921.24**	250	145	260/270

◢ Mounting screws, included

UV resistant WATERPROOF

► TESSILMARE folding biminis

TESSILMARE

TESSILMARE Shade Master biminis suitable for high speed boats

fixed installation not required; **foldable and made of white painted aluminium pipes**, 20-mm Ø, white; waterproof, UV-resistant **polyester/PVC** fabric.
Case included. Nylon joints.

Code	Depth cm	Height cm	Width cm	Bracket cm	Frame
46.902.01*	180	110	124/140	144	2
46.902.02	180	110	140/160	144	3
46.902.03	180	110	160/180	144	3
46.902.04	180	110	185/215	144	3
46.902.05	180	140	215/235	173	3

* *Model fitted with 2 archs instead of 3.*

TESSILMARE

TESSILMARE "Shade Master HS" bimini, designed for high speed boats

Does not require fixed installation; **foldable with white painted aluminium pipes, 25-mm Ø, white waterproof UV-resistant polyester/PVC fabric.**
Case included. AISI 316 stainless steel joints.

Code	Depth cm	Height cm	Width cm	Bracket cm	Frame
46.901.53	195	95	160/180	143	2
46.901.54	200	110	190/210	147	2
46.901.55	215	120	215/225	156	2

TESSILMARE

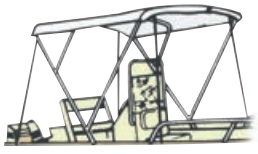
TESSILMARE "Shade Master Fish" bimini specially designed for open hulls with pedestal steering

PATENT

Aluminium frame, 20-mm Ø, white coating, fitted with four foldable arches, sturdy **PVC polyester** fabric. It includes case for storage (folded) and nylon joints.

white	beige	Depth cm	Height cm	Width cm	Bracket cm	Arches
46.914.01	-	180	140	140/160	160	3
46.914.02	**46.914.32**	180	140	160/180	160	3
46.914.03	**46.914.33**	180	140	190/210	160	3
46.914.04*	-	240	140	210/230	200	4

* *This tent is also ideal for cabin **Fliyng Bridges**. Made with 25-mm Ø tube, **nylon** joints, sturdier fabric, fixed flat jount, nylon/stainless steel, **special** case. 4 x foldable arches.*



TESSILMARE

TESSILMARE Shade Master SS detachable bimini

AISI 316

PATENT

Fitted with pole Ø size 22 mm and all **AISI 316 stainless steel** fittings.
Fixed and foldable arcs, white waterproof UV-resistant **polyester/PVC** fabric, **adjustable stainless steel** supports swivelling at 90°.
Case included.

white	Depth cm	Height cm	Width cm	Folded bracket cm	Arches
46.915.02	180	151	165/175	180	3
46.915.03	180	151	180/190	180	3
46.915.04	180	151	195/205	180	3
46.915.05	180	151	225/235	180	3
46.915.06	180	151	240/250	180	3

► Bimini top with carbon tubes

OSCULATI

Bimini top modular system. High finish with mirror-polished swivel-lock bushings.

Carbon pole for Bimini top

The pole rotates by 90° inside the bushing and locks.
The poles are fitted with tightening bushings and fastening rope.
Clamcleat for easy adjustment and tensioning of the Bimini top already mounted on the pole.
Compatible with recess-fit bushings 46.815.00/01, bulkhead-mounting bushing kit 46.815.10 and bulkhead-mounting stowage system 34.358.38.
Fastening rope: eye spliced Dyneema rope. It can be used for direct installation on the Bimini top by means of a 10-mm Ø pawl or a snap hook.

Code	Ø mm	Height cm
46.816.02	38	129
46.816.04	38	149
46.816.06	38	169
46.816.08	38	199
46.816.10	38	229

46.817.00 *MARLOW spliced line, length 130 cm with 50 cm adjustment*

OPTIONAL **34.358.38** *Bulkhead stowage system*

New

Removable carbon pole for Bimini top

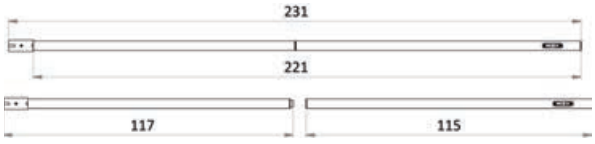
2 PCS MOUNT POLE

The pole is made up of two section and is fitted with anticorodal aluminium bushings for fast mounting. Tightening bushings and a fastening line are also supplied. The pole rotates by 90° inside the busing and locks.
A clamcleat already mounted on the pole allows for an easy adjustment and tensioning of the Bimini top.
Compatible with recess-mount bushings 46.815.00/01, the bulkhead mount bushing kit 46.815.10 and the bulkhead mount stowage system 34.358.38.
Fastening line made of spliced Dyneema with eye. It can be used for direct fastening to the Bimini top with a 10-mm Ø ball or a shackle.

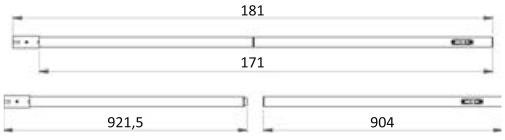
Code	Ø mm	Height cm	No of sections
46.818.09	38	90/181	2
46.818.11	38	110/231	2

46.817.00 *MARLOW 130-cm long spliced line for 50-cm usable adjustment*

34.358.38 *Bulkhead stowage system*



◢ 46.818.11



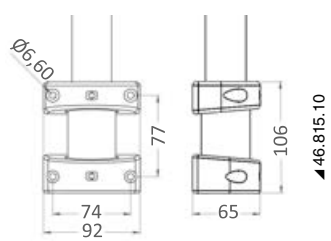
◢ 46.818.09

Bushing for carbon pole

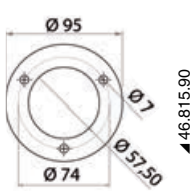
Recess-fit bushing: made of stainless steel, fitted with 180° swivel lock.
Arranged for 12-mm Ø water drain hose. Lock protection for the cup when not in use.
The lock can be customized with a **logo upon request**.

Bulkhead bushing: upper and lower bulkhead support for Bimini pole.
The pole rotates by 90° inside the support and locks. High-quality mirror-polished finish with front logo.
Bulkhead mounting by means of two x M6x40 countersunk screws or longer ones.
Blind lower support. Thru-hull upper support.

Code		Description
46.815.00		Recess-fit bushing, straight
46.815.01		Recess-fit bushing, inclined @ 6°
46.815.90	New	Mounting counterflange for recess-fit bushing
46.815.10		Bulkhead bushing kit



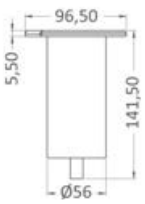
◢ 46.815.10



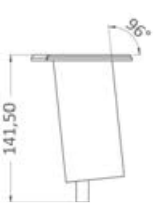
◢ 46.815.90

◢ 46.815.10

◢ 46.815.00/01



◢ 46.815.00



◢ 46.815.01

► Awnings and equipment covers

Parasol folding sun umbrella, for boats

Anodized aluminium metal parts. Fiberglass tube frame, UV-resistant polyester cover.
45° tilting mechanism.
Fitted with rubber resting base, fastening straps and carrying bag.

Code	Colour	⟷ cm			kg
		open	folded	max height	
46.891.01	White	200x200	13x13x165	265	4.8
46.891.02	Blue	200x200	13x13x165	265	4.8
46.891.03	Grey	200x200	13x13x165	265	4.8

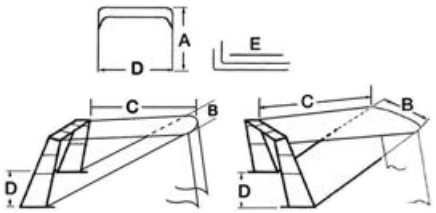
Stainless steel or fiberglass tube telescopic awning for roll-bar

AISI 316

Universal mounting to the roll-bar, made of waterproof fabric with AISI 316 **stainless steel** tube structure.

Bimini top	white	Navy blue	A cm	B cm	C cm	D cm	E* cm
Front	**46.906.01**	**46.906.11**	120	145	190	145/155	120x35
Front	**46.906.02**	**46.906.12**	130	150	190	160/170	130x35
Front	**46.906.03**	**46.906.13**	130	170	190	175/185	130x35
Front	**46.906.04**	**46.906.14**	130	190	190	195/205	130x35
Rear	**46.906.21**	**46.906.31**	130	145	145	145/155	-
Rear	**46.906.22**	**46.906.32**	130	155	145	150/170	-
Rear	**46.906.23**	**46.906.33**	130	170	145	175/185	-
Rear	**46.906.24**	**46.906.34**	130	190	145	190/205	-

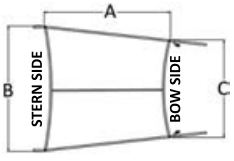
* *Folded*



Bimini top with telescopic arms for T-Tops, stiff roofs and Flying bridge roofs

Stainless steel telescopic arms (1.3/2 m) to slip into the fishing rod holder.
Adjustable height. It can be folded when not in use.
When open it can be used up to a 20-knot speed.
ATLAS 300 gr/m^2 fabric, waterproof and UV-resistant.

navy blue	A cm	B cm	C cm
46.907.01	180	150	120
46.907.03	210	210	150
46.907.05	260	200	170
46.907.07	260	230	200
46.907.09	290	260	230
46.907.11	290	290	260

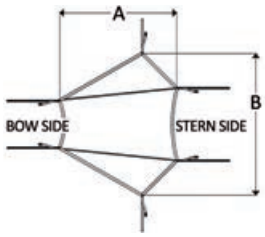


Front extension bimini top for T-tops

Made of waterproof UV-resistant CYCLONE™ 220 gr/m² fabric.
Ideal to protect the cushions from the sun.

Code	A cm	B cm	Colour
48.198.01	200	275	Navy blue
48.198.03	245	290	Navy blue
48.198.04	275	305	Navy blue

WATERPROOF · UV resistant · CYCLONE™ DOPE DYED POLYESTER FABRIC 220g/m² - 6.5oz/yd²



OCEANSOUTH awning

Made of UV-resistant (grade 6/7) Cyclone 220 gr/m² fabric.
Central rear opening with hook&loop fastener and buckle for lifting.
Side fixing tapes included.

Grey	Width cm	Length cm	Rear opening cm
46.899.01	250	240	85
46.899.02	300	320	120
46.899.03	360	420	1200

CYCLONE PROTECT™ PREMIUM WOVEN POLYESTER FABRIC WITH NON WOVEN BACKING

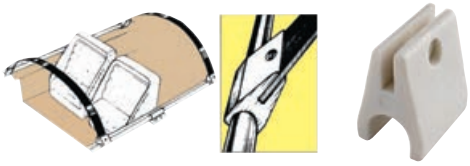
OCEANSOUTH

Support plate for handrails

Made of **white nylon**, designed to make an awning support arch using stainless steel handrails.

Code	For pipes Ø mm	ORDER BY BOX
46.107.10	22	2

58.660.45; 58.660.52 *OPTIONAL Fiberglass bars*

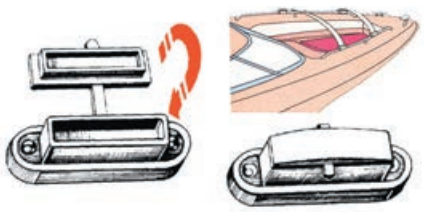


Awning support plate

Made of **chromed brass**, when fixed to the handrails it forms an arch that supports the tarpaulin; fitted with **white PVC** cover.

Code	⟷ mm	ORDER BY BOX
46.108.00	67x14	2

58.660.45; 58.660.52 *OPTIONAL Fibreglass bars*



Fork + bushing

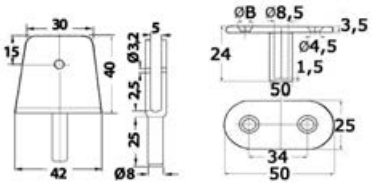
AISI 316

Made of **mirror polished precision cast AISI 316 stainless steel**; designed to create movable fibreglass or wooden arcs to support boat awnings.

Code	Flange bush mm	Fork pin Ø mm
46.109.00	25x50	8

58.660.50; 58.660.51; 58.660.52; 58.660.45 *OPTIONAL Fiberglass bars*

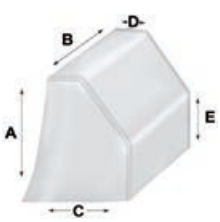
OSCULATI



Console covers for open hulls

Polyurethane-coated polyester fabric, elastic edge for better fit. UV-resistant.

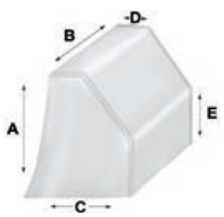
Code	Model	A cm	B cm	C cm	D cm	E cm	Fabric deniers
46.509.03	M1	115	45	45	15	90	300 D
46.509.02	M2	90	70	80	15	65	300 D
46.509.05	M3	110	70	65	15	95	300 D
46.509.07	M4	125	90	70	15	100	300 D
46.509.08	M5	130	100	90	15	105	300 D
46.509.09	M6	135	110	120	15	110	300 D



TESSILMARE control panel cover for open boats

Made of **water-resistant white polyester** fabric.

Code	Model	A mm	B mm	C mm	D mm	E mm
46.896.01	Small	1250	800	650	250	600
46.896.02	Medium	1350	1000	700	300	650
46.896.03	Large	1450	1200	750	350	700

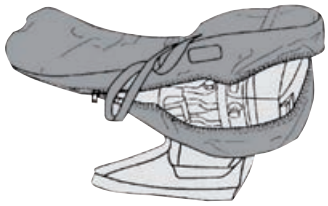


OSCULATI

Fabric seat cover

Made of polyester fabric and waterproof polyurethane coating.

Code	⟷ AxBxH cm	Colour	Fabric deniers	For seat
48.688.01	45x55x53	Grey	300 D	Single-seater
48.688.02	60x60x65	Grey	300 D	Single-seater
48.688.03	53x90x89	Grey	300 D	Two-seat

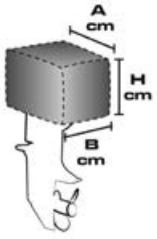


Protective storage bag for outboard engines

Made of sturdy **polyester** fabric, covered internally with shock-resistant padded material, oil and fuel resistant, nylon zip closure; adjustable straps suited to carry by hand or on the back; ideal for stowing auxiliary engines, for carrying or for winter storage.

Code	For outboards up to
46.151.00	5 HP
46.152.00	6/15 HP
46.153.00	20/40 HP

OSCULATI



Engine covers made of fabric

Made of polyester fabric and waterproof polyurethane lining. UV resistant.

Code	⟷ cm			HP	Color	Fabric deniers
	A	B	H			
46.505.01	40	25	32	2/4	Grey	300 D
46.505.02	48	27	35	5/15	Grey	300 D
46.505.03	55	33	45	15/30	Grey	300 D
46.505.04	63	35	50	30/60	Grey	300 D
46.505.05	73	40	65	60/100	Grey	300 D
46.505.06	75	45	75	100/150	Grey	300 D

OCEANSOUTH

OCEANSOUTH Top Quality cover for 2/4-stroke outboard engine - Engine head

Version for engine head.
Made of waterproof UV-resistant 320 g/m Cyclone polyester fabric lined with plush to avoid scratching the paint when folding the engine. Reinforced and sealed seams.

Code	HP	⟷ cm			Colour
		(L) length	(W) width	(H) height	
46.537.01	2-4	40	24	27	Grey
46.537.02	5-15	52	27	32	Grey
46.537.03	15-30	56	30	40	Grey
46.537.04	30-60	62	36	49	Grey
46.537.05	60-100	68	40	53	Grey
46.537.06	115-150	74	46	58	Grey
46.537.07	175-250	82	50	60	Grey

OCEANSOUTH

OCEANSOUTH Top Quality cover for 2/4-stroke outboard engine - Complete engine

Version for the whole outboard engine.
Made of waterproof UV-resistant 320 g/m Cyclone polyester fabric lined with plush to avoid scratching the paint. Reinforced and sealed seams.
The closure is fitted with a reinforced profile and a 10 nylon zip fastener.

Code	HP	Circumference cm	Height cm (H)	Colour
46.538.01	Fino a 3,5	126	98	Grey
46.538.02	3,5-6	140	110	Grey
46.538.03	8-20	150	125	Grey
46.538.04	9,9-30	165	137	Grey
46.538.05	25-60	180	144	Grey
46.538.06	30-90	200	170	Grey
46.538.07	70-150	226	190	Grey
46.538.08	135-250	248	197	Grey
46.538.09	200-350	254	198	Grey
46.538.10	225-350	254	210	Grey

Tailored cover for MERCURY engines

Made to measure for the engine model. For storage in outdoor areas.
Colour matches the engine (black).

For engine head		For complete engine	Engine	HP	Year	Leg
To be used when the engine is off	Ventilated – can also be used during navigation					
-	46.540.35	-	V8 4.6L	200/300	2018>	20"
-	-	46.550.02	V8 4.6L	200/300	2018>	25"
-	-	46.550.03	V8 4.6L	200/300	2018>	30"
46.540.01	46.540.11	46.550.04	Verado 6 cylinders 2.6L	200/400	2005>	25"
-	-	46.550.05	Verado 6 cylinders 2.6L	200/400	2005>	30"
-	46.540.36	46.550.07	V6 3.4L	175/225	2018>	25"
-	-	46.550.08	V6 3.4L	175/225	2018>	30"
46.540.02	46.540.12	46.550.09	Verado 4T 1.7L cc	135/200	2005>	20"
-	-	46.550.10	Verado 4T 1.7L cc	135/200	2005>	25"
46.540.03	46.540.13	46.550.12	4 cylinders 4T 3L	135/150	2011>	20"
-	-	46.550.13	4 cylinders 4T 3L	135/150	2011>	25"
46.540.04	46.540.14	46.550.15	4 cylinders 4T 2.1L	75/115	2014>	20"
-	-	46.550.16	4 cylinders 4T 2.1L	75/115	2014>	25"
46.540.05	46.540.15	-	4 cylinders 4T 995 cc	40/60	2008>	15"
-	-	46.550.19	4 cylinders 4T 995 cc	40/60	2008>	20"
-	-	46.550.20	4 cylinders 4T 995 cc	40/60	2008>	25"
46.540.06	46.540.16	46.550.21	3 cylinders 4T 747 cc	40	2008>	15"
-	-	46.550.22	3 cylinders 4T 747 cc	40	2008>	20"
-	46.540.24	46.550.24	3 cylinders 4T 526 cc	25/30	2007>	15"
-	-	46.550.26	3 cylinders 4T 526 cc	25/30	2007>	20"
-	46.540.18	46.550.27	2 cylinders 4T 333 cc	15/20	2018>	15"
-	-	46.550.28	2 cylinders 4T 333 cc	15/20	2018>	20"
-	46.540.19	46.550.30	2 cylinders 4T 209 cc	8/9.9	2006>	15"
-	-	46.550.31	2 cylinders 4T 209 cc	8/9.9	2006>	20"
-	46.540.20	46.550.33	1 cylinder 4T 123 cc	4/5/6	2012>	15"
-	-	46.550.34	1 cylinder 4T 123 cc	4/5/6	2012>	20"
-	46.540.21	46.550.36	1 cylinder 4T 85 cc	2.5/3.5	2007>	15"
-	-	46.550.37	1 cylinder 4T 85 cc	2.5/3.5	2007>	20"

Tailored cover for YAMAHA engines

Made to measure for the engine model. For storage in outdoor areas.
Colour matches the engine (grey).

For engine head		For complete engine	Engine	HP	Year	Leg
To be used when the engine is off	Ventilated – can also be used during navigation					
-	46.541.35	46.551.01	XTO V8 5.6L	375/425	2018>	25"
-	-	46.551.02	XTO V8 5.6L	375/425	2018>	30"
-	-	46.551.03	XTO V8 5.6L	375/425	2018>	35"
46.541.01	-	46.551.04	V8 4T 5.3L	350	2007>	25"
-	-	46.551.05	V8 4T 5.3L	350	2007>	30"
46.541.42 New	46.541.52 New	-	V6 4T	F225/250/300	2021>	-
46.541.02	46.541.12	46.551.07	V6 4T 4.2L	F225/250/300	2010>	25"
-	-	46.551.08	V6 4T 4.2L	F225/250/300	2010>	30"
46.541.03	46.541.13	46.551.10	4 cylinders 4T 2.8L	F150/175/200	2015>	20"
-	-	46.551.11	4 cylinders 4T 2.8L	F150/175/200	2015>	25"
46.541.04	-	-	4 cylinders 4T 2.7L	F150D	2013<	-
46.541.05	46.541.15	46.551.13	4 cylinders 4T 1.8L	115/130	2014>	20"
-	-	46.551.14	4 cylinders 4T 1.8L	115/130	2014>	25"
-	46.541.20	46.551.16	4 cylinders 4T 1.8L	F75DF90C/ F100F	2017>	20"
-	-	46.551.17	4 cylinders 4T 1.8L	75/100	2017>	25"
46.541.06	46.541.16	46.551.19	4 cylinders 4T 996 cc	F50/60/70	2010>	20"
46.541.07	46.541.17	46.551.21	3 cylinders 4T 747 cc	F30/40	2009>	20"
46.541.08	46.541.18	-	2 cylinders 4T 498 cc	F25 D	2010>	20"
-	46.541.19	46.551.23	2 cylinders 4T 432 cc	F25 C/G	2017>	15"
-	-	46.551.24	2 cylinders 4T 432 cc	F25 C/G	2017>	20"
-	46.541.30	46.551.26	2 cylinders 4T 362 cc	F15C/F20B	2007>	15"
-	-	46.551.27	2 cylinders 4T 362 cc	F15C/F20B	2007>	20"
-	46.541.21	46.551.29	2 cylinders 4T 212 cc	F8F/F9.9J	2013>	15"
-	-	46.551.30	2 cylinders 4T 212 cc	F8F/F9.9J	2013>	20"
-	46.541.22	46.551.32	1 cylinder 4T 139 cc	F4B/F5A/F6C	2010>	15"
-	-	46.551.33	1 cylinder 4T 139 cc	F4B/F5A/F6C	2010>	20"
-	46.541.23	46.551.35	1 cylinder 4T 72 cc	F2.5B	2015>	15"

OCEANSOUTH

CYCLONE PROTECT™

Tailored cover for HONDA engines

Made to measure for the engine model. For storage in outdoor areas. **Honda grey colour.**

Ventilated – can also be used during navigation	For complete engine	Engine	HP	Anno	Leg
46.544.11	-	BF200D/225D/250D V6 3.6L	200/250	2011 >	20"
-	**46.553.02**	BF200D/225D/250D V6 3.6L	200/250	2011 >	25"
-	**46.553.03**	BF200D/225D/250D V6 3.6L	200/250	2011 >	30"
46.544.12	-	BF175/200/225 V6 3.5L	175/225	2010 >	20"
-	**46.553.05**	BF175/200/225 V6 3.5L	175/225	2010 >	25"
-	**46.553.06**	BF175/200/225 V6 3.5L	175/225	2010 >	30"
46.544.13	**46.553.07**	BF115/135/150 4 cylinders 2.3L	115/135/150	2010 >	20"
-	**46.553.08**	BF115/135/150 4 cylinders 2.3L	115/135/150	2010 >	25"
46.544.14	**46.553.10**	BF75/80/90/100 4 cylinders 1.5L	75/80/90/100	2014 >	20"
-	**46.553.11**	BF75/80/90/100 4 cylinders 1.5L	75/80/90/100	2014 >	25"
46.544.15	**46.553.13**	3 cylinders 1L	60	2009>	20"
-	**46.553.14**	3 cylinders 1L	60	2009>	25"
46.544.16	**46.553.16**	BF40/50 3 cylinders 808 cc	40/50	2017 >	20"
-	**46.553.17**	BF40/50 3 cylinders 808 cc	40/50	2017 >	25"
46.544.17	**46.553.19**	3 cylinders 552 cc	25/30	2002 >	15"
-	**46.553.20**	3 cylinders 552 cc	25/30	2002 >	20"
46.544.18	**46.553.22**	2 cylinders 350 cc	15/20	2002 >	15"
-	**46.553.23**	2 cylinders 350 cc	15/20	2002 >	20"
46.544.19	**46.553.25**	BF8/9.9/10 2 cylinders 222 cc	8/9.9/10	2000 >	15"
-	**46.553.26**	BF8/9.9/10 2 cylinders 222 cc	8/9.9/10	2000 >	20"
46.544.20	**46.553.28**	BF4/5/6 1 cylinders 127 cc	4/5/6	2016 >	15"
-	**46.553.29**	1 cylinders 127 cc	4/6	2016 >	20"
46.544.21	**46.553.31**	BF 2.3 1 cylinders 57 cc	2.3	2014 >	15"

OCEANSOUTH

Tailored cover for SUZUKI engines

Made to measure for the engine model. For storage in outdoor areas.
Colour matches the engine (black).

For engine head		For complete engine	Engine	HP	Year	Leg
To be used when the engine is off	Ventilated – can also be used during navigation					
-	**46.542.35**	**46.552.01**	V6 4T 4-4L	DF325/350	2017>	25"
-	-	**46.552.02**	V6 4T 4-4L	DF325/350	2017>	30"
46.542.01	**46.542.11**	**46.552.04**	V6 4T 4L	DF250AP/300AP	2012>	25"
-	-	**46.552.05**	V6 4T 4L	DF250AP/300AP	2012>	30"
46.542.02	**46.542.12**	**46.552.07**	V6 4T 3.6L	DF200/225/250	2003>	25"
-	-	**46.552.08**	V6 4T 3.6L	DF200/225/250	2003>	30"
46.542.03	**46.542.13**	-	4 cylinders 4T 2.8L	DF150/DF175	2005>	-
-	**46.542.23**	**46.552.10**	4 cylinders 4T 2.8L	DF40/50/60	2014>	25"
-	-	**46.552.11**	4 cylinders 4T 2.8L	DF150AP/ 175AP/200AP	2014>	30"
46.542.44 New	**46.542.54** New	-	4 cylinders 4T 2L	DF115BG/ 140BG	2021>	-
46.542.04	**46.542.14**	**46.552.16**	4 cylinders 4T 2L	DF100/115/140A	2012>	20"
-	-	**46.552.17**	4 cylinders 4T 2L	DF100/115/140A	2012>	25"
46.542.05	**46.542.15**	**46.552.19**	4 cylinders 4T 1.5L	DF70/80/90A	2008>	20"
-	-	**46.552.20**	4 cylinders 4T 1.5L	DF70/80/90A	2008>	25"
46.542.06	**46.542.16**	**46.552.22**	3 cylinders 4T	DF40/50/60A	2010>	20"
-	-	**46.552.23**	3 cylinders 4T	DF25A/30/40/60	2010>	25"
46.542.07	**46.542.17**	**46.552.25**	3 cylinders 4T	DF25A/30	2014>	20"
-	-	**46.552.26**	3 cylinders 4T	DF25A/30	2014>	25"
-	**46.542.18**	**46.552.28**	2 cylinders 4T 327 cc	DF15/20A	2012>	15"
-	-	**46.552.29**	2 cylinders 4T 327 cc	DF15/20A	2012>	20"
-	**46.542.19**	**46.552.31**	1 cylinder 4T 208 cc	DF8/9.9A	2010>	15"
-	-	**46.552.32**	1 cylinder 4T 208 cc	DF8/9.9A	2010>	20"
-	**46.542.20**	**46.552.33**	1 cylinder 4T 138 cc	DF4/5/6A	2002>	15"
-	-	**46.552.34**	1 cylinder 4T 138 cc	DF4/5/6A	2002>	20"
-	**46.542.21**	**46.552.36**	1 cylinder 4T 68 cc	DF2.5	2006>	15"

Tailored cover for EVINRUDE engines

Made to measure for the engine model. suitable for outdoor storage. **Colour: grey/blue.**

To be used when the engine is off	Ventilated – can also be used during navigation	Engine	HP	Year
46.543.01	**46.543.11**	E-TEC-G2	225/300HP	2014>
-	**46.543.35**	G2 V6 2.7L	150/175/200HP	2016>
46.543.02	**46.543.12**	E-TEC-V6 3.3L	225/300HP	2005-2016
46.543.03	**46.543.13**	E-TEC-V6 2.6L	150/200HP	2004>
46.543.04	**46.543.14**	E-TEC-V4 1.7L	90/115/130HP	2005>
46.543.05	**-**	3 cylinders E-TEC	60/75/90HP	2003>
-	**46.543.15**	3 cylinders E-TEC 1.3L	60H0/75/90HP	2003>
46.543.06	**46.543.16**	2 cylinders E-TEC	40/50/60HP	2003>

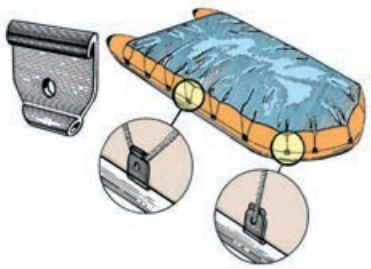
CYCLONE PROTECT™

► Accessories for rubber dinghy covers

Plastic hooks

Designed to fasten RIB covers onto rubbing strake; can be used vertically or with the continuous shock cord.

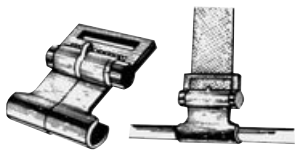
Code	Color	ORDER BY BOX
66.111.00	Black	12



Plastic hook

Designed for ribs' canopies, fitted with 25mm belt adjuster

Code	Color	ORDER BY BOX
66.592.00	Black	12

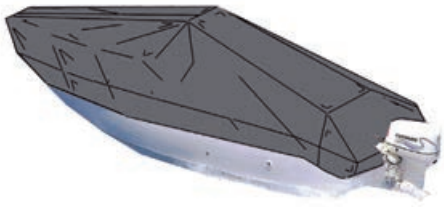


► Marine canvasses and covers

Boat cover - suitable for open boats with central control panel

Made of sturdy waterproof and UV-resistant polyester fabric in **grey or blue colour (until stock lasts). Its rugged structure makes it suitable for use when the boat is being trailed on the road.**

Code	Suitable for boats	
	length m	width m
46.170.01	4.2 / 4.4	1.8
46.170.03	4.4 / 4.7	1.9
46.170.05	4.8 / 5.2	2
46.170.07	5.3 / 5.7	2.1
46.170.09	5.8 / 6.3	2.4
46.170.11	6.3 / 6.8	2.4
46.170.13	7 / 7.7	2.6

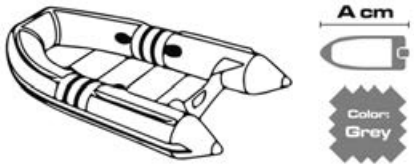


OSCULATI

Cover for inflatables/tenders

Made of polyester fabric with polyurethane waterproof lining, elastic on the perimeter for better fitting to the boat broadsides. UV resistant.
Double seams, perimeter rings to tension the cover.

Code	Tender A length cm	Color	Fabric deniers
46.501.01	240 - 320	Grey	300 D
46.501.02	300 - 360	Grey	300 D



OSCULATI

◢ 46.503.13

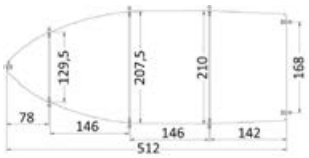
◢ 46.503.01

Cover for open hulls with central steering dashboard/decked hulls with windscreen

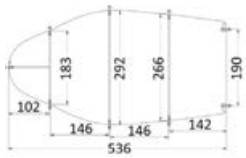
Made of polyester fabric with waterproof polyurethane coating, elastic on the perimeter for better fitting to the boat broadsides. UV resistant. Double seams, perimeter rings to tension the cover.

Code	Boat dimensions		Colour	Fabric deniers
	length A cm	width B cm		
46.503.01*	427/488	180	Grey	300D
46.503.03	427/488	210	Grey	300D
46.503.06	488/564	225	Grey	300D
46.503.07	518/579	230	Grey	300D
46.503.09	550/610	240	Grey	300D
46.503.11	580/650	250	Grey	300D
46.503.13	630/710	260	Grey	600D
46.503.15	700/780	270	Grey	600D

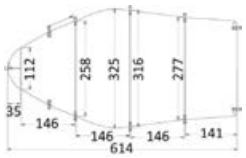
* *Low console*



◢ 46.503.01



◢ 46.503.03



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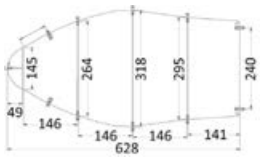

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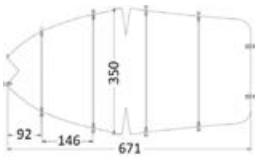
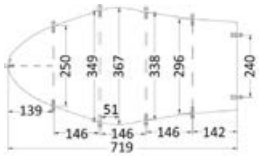


◢ 46.503.09



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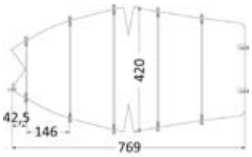

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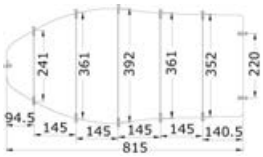


◢ 46.503.15

OCEANSOUTH

Dinghy cover

Suitable for round/square bow dinghies.
Designed to cover also the outboard engine.
Breathable and UV-resistant fabric.
It can be used for towing on trailer up to a 60-km/h speed.

Code	Dinghy size		⟷ tarpaulin		Color
	Length cm	Width cm	Length cm	Width cm	
46.166.01	230/260	150	328	235	Grey
46.166.02	260/290	155	358	245	Grey
46.166.03	290/320	165	393	255	Grey
46.166.04	320/360	175	433	266	Grey
46.166.05	360/390	190	465	281	Grey
46.166.06	390/430	200	511	300	Grey
46.166.07	430/470	210	551	310	Grey

Open hull tarpaulin

They can mount side handrails up to 150-mm high.
Made of sturdy waterproof Cyclone polyester.
Breathable and UV-resistant fabric suitable for road towing up to 60 km/h speed.

Code	Boat dimensions		⟷ cover	
	Length cm	Max width cm	Length cm	Width cm
46.203.21	370/390	170	450	215
46.203.31	390/410	180	470	225
46.203.41	410/430	195	490	240
46.203.51	430/450	205	510	250
46.203.56	450/470	205	530	250
46.203.61	470/500	225	560	270
46.203.62	500/530	225	590	270

UNIVERSAL STORAGE tarpaulin

Suitable for: open hulls, decked/half-decked hulls with or without windshield, hulls with central/lateral steering dashboard.
For seasonal laying-up. Made of breathable and UV-resistant fabric.

Code	Boat size		⟷ tarpaulin		Color
	Length cm	Max width cm	Length cm	Width cm	
46.167.02	400/450	205	522	280	Grey
46.167.03	450/540	240	595	340	Grey
46.167.04	540/640	260	719	340	Grey

Universal multipurpose cover

Suitable for: hulls, decked/half-decked hulls with or without windshield, hulls with central/lateral steering dashboard. Made of very sturdy breathable and UV-resistant polyester fabric rated for road towing up to 60 km/h. For long-term indoor or outdoor laying up.

Code	Boat size		⟷ tarpaulin		Color
	length cm	max width cm	length cm	width cm	
46.169.02	400/450	205	522	280	grey
46.169.03	450/540	240	595	340	grey
46.169.04	540/640	260	718	355	grey

Centre Console tailored cover for open hulls with centre console.

Made of sturdy Cyclone polyester rated for road towing use up to 60 km/h.
Breathable and UV-resistant fabric.

Code	Boat dimensions		⟷ cover		Color
	length cm	max width cm	length cm	width cm	
46.172.01	470/500	225	582	327	Grey
46.172.02	500/530	240	612	342	Grey
46.172.03	530/560	240	642	342	Grey
46.172.04	560/590	245	672	347	Grey
46.172.05	590/630	250	712	352	Grey
46.172.06	630/670	250	752	352	Grey

OCEANSOUTH

Jumbo made-to-measure cover for cabins/semicabins/T-Top

Made of sturdy Cyclone polyester rated for road towing up to 60 km/h.
Breathable and UV-resistant fabric.

Code	Boat size			⟷ tarpaulin		Colour
	length cm	max width cm	max height from stringer cm	length cm	width cm	
46.171.01	580/640	240	135	818	530	Grey
46.171.02	640/700	250	135	883	550	Grey
46.171.03	700/760	270	150	948	570	Grey
46.171.04	760/820	290	150	1008	590	Grey

Tailored tarpaulin for dinghies

Opening for A-frame, if any.
Cyclone® 300 g/m^2 high-strength UV-resistant breathable fabric, also for use for **towing trailers** up to 60 km/h. Zip and hoop&loop fastening.
Two Cam Cleats make it easy to stretch the tarpaulin.

Code	Dinghie size		⟷ tarpaulin		Colour
	length cm	width cm	length cm	width cm	
46.165.01	470/500	230	600	370	Grey
46.165.02	510/530	230	660	380	Grey
46.165.03	540/560	230	700	390	Grey
46.165.04	570/590	230	730	400	Grey
46.165.05	600/630	230	760	420	Grey
46.165.06	640/670	250	790	430	Grey
46.165.07	680/710	280	840	450	Grey
46.165.08	720/750	280	870	460	Grey
46.165.09	760/790	280	910	470	Grey
46.165.10	800/830	280	950	480	Grey
46.165.11	840/870	310	1000	500	Grey
46.165.12	880/910	310	1050	510	Grey

CYCLONE PLUS™

TESSILMARE

TESSILMARE cover for boats with windscreen and Day Cruiser.

Made of 1000-denier heavy duty fabric, also suitable for transport on boat trailers.
Made of very sturdy Supermare fabric.

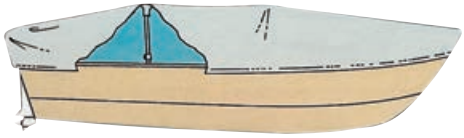
Code	Hull length cm	Tarpaulin size cm
46.178.20	430/460	510x250
46.178.30	470/500	550x280
46.178.40	510/550	600x292
46.178.50	560/600	620x270
46.178.55	620/650	690x300
46.178.60	670/700	745x320

OSCULATI

Telescopic cover support

Made of **anodized light** alloy, fitted with wide soft **PVC** top support to avoid damaging the tarpaulin.

Code	Pipe Ø mm	Adjustable from cm
46.100.01	25/30	75/120
46.100.02	25/30	90/160



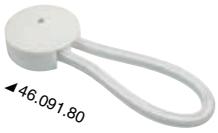
Telescopic support for covers

Made of 22/25-mm Ø aluminium tube. Fitted with upper and lower Wheels-like rests for better stability. It comes with 20-m adjustable fastening belts and snap buckles.

Code	Description	For hulls max m
46.100.04	Cover support	7.5

Elastic hooks

Code	Colour	Length mm
46.091.80	White	80
46.092.80	Black	80



Boat cover vent

Easy to fasten (as little as 4 screws), it keeps air circulating under your boat cover to fight mold and mildew.

Code	Description	⟷ mm
46.102.00	Air vent	107x112

INDOOR sea cover

Polyethylene sheet to protect boats in marinas.
Supplied in 50-m rolls with continuous elastics on the outer sides.

Mounting instructions
1) unroll the cover from stern to stem keeping central on the boat and leaving a surplus of about 50 cm on either side
2) apply two straps 30 cm one from the other and cut the sheet from the roll
3) take the elastics out and tie them
4) open the cover over the boat
5) pull the elastic from one of its ends and tie it to keep it tight
6) if necessary, use the special reinforced pre-cuts to connect the outer elastic crosswise.

Code	Cover width m	Roll length m
46.174.01	6	50
46.174.02	8	50
46.174.03	10	50

◢ 1

◢ 1

◢ 1

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◢ 4

Marine heat-shrink covering

White polyethylene heat-shrink film. Special additive for UV-ray resistance.
Ideal covering to protect whatever boat from dirt, minor impacts, high temperature, etc. during laying up/transport. Easy application by spreading the product from bow to stern and heating it up with the dedicated heat guns.

Product sold in rolls (price depends on weight).

Code	Film width m	Roll length m	Roll height m	Thickness	Approximate weigth kg	Bending
46.176.06	6	65	1.5/1.6	0.2	76.6	bellows-bending
46.176.08	8	50	1	0.2	77.7	multiple bending
46.176.48	8	50	2.2	0.2	77.7	multiple bending
46.176.10	10	50	1.25	0.2	97.1	multiple bending
46.176.50	10	50	2.7	0.2	97.1	multiple bending
46.176.12	12	50	1.5	0.2	116.5	multiple bending
46.176.14	14	50	1.75	0.2	135.9	multiple bending
46.176.16	16	50	2	0.18	140.1	multiple bending

◢ 46.188.01

◢ 46.188.02

Air vents for heat-shrinking covering

Good protection against the ingress of unwanted external agents to prevent condensate, mould and bad odours

Code	Description
46.188.01	Piercieng triangular vent
46.188.02	Adhesive round vent

◢ 46.177.00

◢ 46.177.00

◢ 46.177.10/12/13/15/16

Rafale Black Edition + propane gas shrinkforming gun

Propane gas shrinkforming gun for polyethylene. Weighing 1.17 kg, and combining ergonomics and comfortable noise levels (88dB at 1-m distance - 85dB), Rafale Black Edition has been designed to limit user's fatigue as much as possible, even after several working hours.
Air consumption: 48 to 72.2 m^3/h; flow: 3.2 to 4.8 kg/h. 1.3-mm diameter injector, 360° swivelling head for use in any position. Aluminium nozzle surrounded by a double protection, which means that it always stays warm regardless of the duration and intensity of use.
Power can be set from 44 to 66 kW/h.
Delivered in a case containing: pressure regulator adjustable from 1.5 to 3.5 bar, 8-m rubber hose complying with NF EN 559, 1 instruction manual, 1 pair of gloves, 1 heat deflector. CE mark No 4450.

Code	Description
46.177.00	Propane gas shrinkforming gun (faucet not included)
46.177.10	Pressure regulator and pressure gauge for shrinkforming gun with fitting for Algeria, Belgium, Spain, France, Hungary, Luxembourg, Morocco, Holland, Poland, Portugal, Czech Republic, Switzerland, Tunisia.
46.177.12	Pressure regulator and pressure gauge for shrinkforming gun with fitting for UK, Canada, Ireland.
46.177.13	Pressure regulator and pressure gauge for shrinkforming gun with fitting for Italy and Greece.
46.177.15	Pressure regulator and pressure gauge for shrinkforming gun with fitting for Turkey.
46.177.16	Pressure regulator and pressure gauge for shrinkforming gun with fitting for Russia.

To use the gun, also order the suitable fitting (to be chosen depending on the country of use).

Heat-shrinking polyethylene adhesive tape

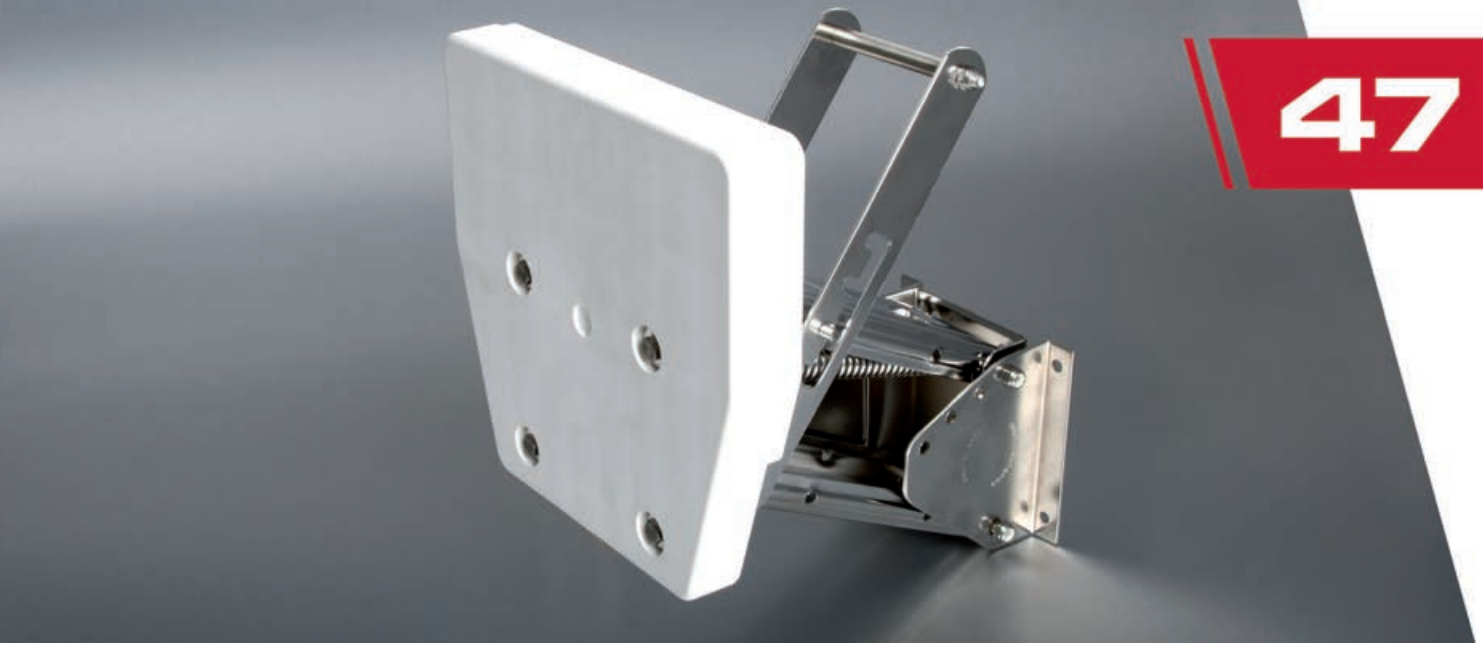
To join, seal and repair heat-shrinking film. Also used when installing fixtures such as doors, openings, vents, etc. Resistant to abrasion, UV rays, weather and chemical agents.

Code	Width mm	Length m
46.186.00	50	33
46.186.01	96	55

Polyethylene doors and openings.

To enable access to the structure.

Code	Outer mm	Fastening
46.187.01	1750x750	Zip



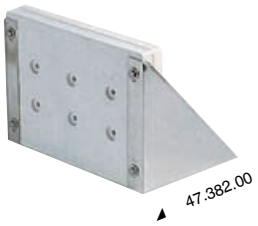
► Outboard brackets

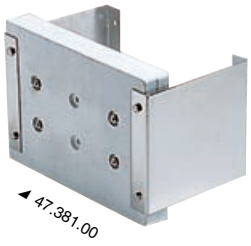
Outboard brackets with plastic board

Polished stainless steel crankweb, highly-resistant **white plastic** pad.

Code	Version	For outboard up to	Board mm
47.381.00	Wall or transom mounting version	12 HP or 35 kg	289x200
47.382.00	Square side version **for deck** mounting	8 HP or 30 kg	289x200
47.383.00	Central pipe with clamp version. For pushpit mounting. Suitable for 22/25-mm Ø pipes	12 HP or 35 kg	289x200
47.384.00	Plastic board. Plastic board, only, equipped with 10 bolts + fixing nuts and reinforcement internal pipe. For 22/25-mm Ø pipes.	12 HP or 35 kg	289x200

OSCULATI





Fixed brackets for transom mounting

Polished stainless steel block cheeks, **lacquered beech** wood board.

Code	Board mm	For engines up to	⟷ AxBxC mm
47.377.00	280x194	12 HP or 35 kg	200x286x195

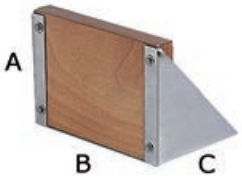
OSCULATI

Outboard brackets for deck-mounting

Deck mounting with polished **stainless steel** sides, **marine mahogany plywood** board; designed for boats with the latest generation transom shape, built-in design; for mounting on the upper navigating bridge side.

Code	Board mm	For engines up to	⟷ AxBxC mm
47.379.00	290x195	8 HP or 30 kg	200x285x195

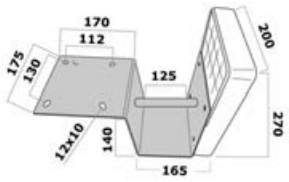
OSCULATI



Auxiliary outboard engine bracket for stern mounting, reduced fit model

Designed to provide a better immersion of the outboard foot; fitted with highly-resistant pad.

Code	Overhang mm	For outboard up to	Fixing board mm
47.376.13	140	15 HP or 40 kg	175x178



Heavy Duty engine support for wall mounting

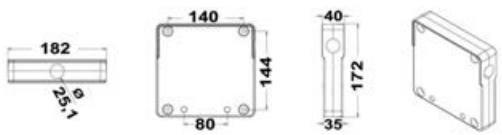
Made of stainless steel with high-resistance technopolymer board.

Code	Plates mm	Board mm	For engines up to	kg
47.385.00	155x211	205x260x43	45 kg	3.75

Outboard stowage bracket - pushpit mounting

Made of white plastic

Code	Hose Ø mm	⟷ external mm	For engines max
47.377.50	25	182x172x40	12 HP or 30 kg



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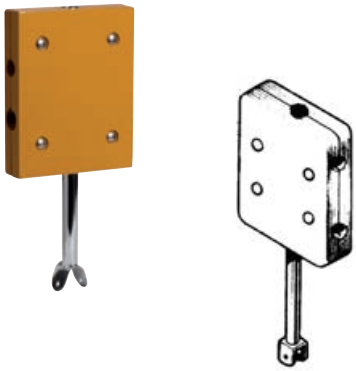


Auxiliary outboard stowage bracket for pushpit mounting

Polyurethane coated marine plywood board. **Stainless steel** fork pipe. Fitted with two holes to adapt the brackets onto pulpit pipe diameter size 30 and 25 mm.

Code	Board cm	For outboard up to
47.378.00	20x25	12 HP or kg 30

Auxiliary outboard engine brackets

Made of white **anodized anticorodal**; fitted with white anticorodal gliding tracks; polyurethane lacquered beech board, adjustable in 3 positions; lifting with rise engine locking system, sturdy and elegant.

Code	For motors up to	Length mm	Overhang mm	Board height mm	Width mm
47.376.00	10 HP (4 stroke) and 20 HP (2 stroke)	450	260	160	320

Drop-down outboard motor bracket

Made of **stainless steel**; simplified version without intermediate adjusting handles; fitted with **highly-resistant plastic pad**.

Code	For outboard up to	Pad mm
47.376.12	7 HP or kg 25	110x140

Adjustable Outboard Motor Bracket

Made of mirror polished **stainless steel**; drop-down system with intermediate adjustment with a comfortable handle; brackets are fitted with **a highly-resistant pad; features: durable over time; strong 1.5 times more resistant than wooden systems; fine design**.

Code	For outboard up to	Base mm	pad mm
47.376.11	8 HP or kg 30	110x150	190x260
47.376.10	15 HP or kg 40	140x150	190x260
47.376.26*	20 HP or kg 45	140x150	250x260

* *fitted with **adjustable slope** fixing plate.*

Aluminium Outboard motor bracket

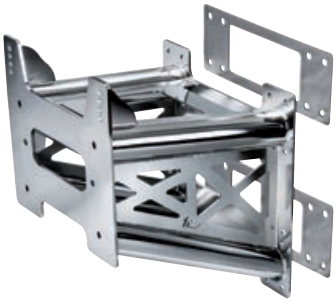
Anodized aluminium frame. Painted multilayer marine plywood pad.
Stainless steel springs, bolts and screws. Four lockable bracket angles.

Code	Capacity kg	Pad mm	Support base mm
47.376.05	35	240x205	156x130

Auxiliary outboard engine brackets MEGA

Made of **stainless steel**, very sturdy.

Code	For outboards up to	Vertical excursion	Pad mm	Support plate	Adjusting board inclination
47.376.28	40 kg or 20 HP(2T)/ 8 HP(4T)	290 mm	265 height - 210 width - 45 thickness	190x200 mm	from 0° to 28° +/-

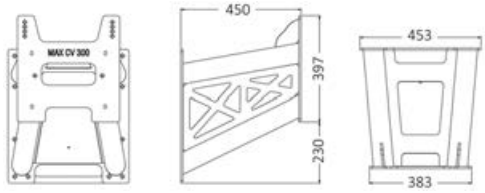


BRACKET stainless steel motor bracket

Universal model for Johnson/Evinrude/Yamaha/Mercury/Suzuki/Honda. Made with fine precision, top performance, provides more onboard space.
The following is included:
70 kg 0.43mm rudder anode;
2 x 5mm thick counterplates.

Code	For outboard up to	Total weight
47.375.04	from 140 to 300 HP	kg 35,02 (with counter plate)

With counterplates for fixing



◢47.250.00

◢47.250.02

CMC electro-hydraulic outboard lift

Made of **6061 T6 aluminium alloy**, fitted with **stainless steel** nuts and bolts and **bronze-aluminium** bearings. Supplied with position indicating device and control switch to mount on the control panel.

Code	volt	For FB MAX	Stroke mm	Speed mm/min	Stern overhang mm	⟷ mm	kg
47.250.00	12	V6	125	93	140	460x418	21,5
47.250.02*	12	V8	125	71	140	460x418	30,5

* *Model for V8 engines (Yamaha 300 HP), extremely reinforced with extruded SS guides and rails.*

◢Position indicator

Outboard engine towing stay

It lifts the outboard engine from the leg when the hull is loaded on a trailer or on a protection cradle. Adjustable universal size fitting any model. The leg support is made of **rubber** and fitted with mounting straps. 150-HP 2-cylinder max capacity.

Code	Adjustable
47.110.96	from 50 to 80 cm

► Lifting harness for outboard engines

OSCULATI

Lifting harness for outboard engines

Fitted with upper handle, universal size for all outboards on sale. Essential for moving outboard engines from the **Pram to the pushpit** and vice versa.

Code	Model	Suggested for engines
47.391.00	Standard	max 15 - kg 35
47.391.02	Heavy Duty	max 25 - kg 50

Ideal for little cranes such as 42.360.00

◢47.391.00

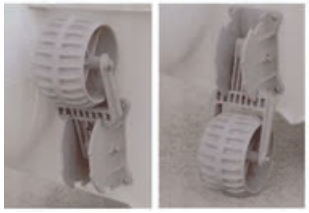
◢47.391.02

► Transom wheels

Integral launching wheels for tenders

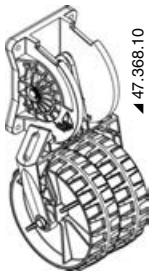
Made of high-resistance plastic. Safety system to keep them in rest position during navigation. Universal for all kinds of tender.

Code	⟷ Open mm
47.368.09	100x270
47.368.10	164x334



◢ 47.368.09

◢ 47.368.09



◢ 47.368.10

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◢ 47.386.10

Transom wheels for dinghies - Tilting and removable

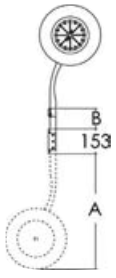
OSCULATI

Fitted with pivoting arms that can be left onto the transom during navigation. A quick release systems allows the arms to be easily removed for stowage or towing-only use. Stainless steel tubes. Sold in pairs (LEFT + RIGHT).

Code	Type	Capacity kg	Pipe section mm	Ø of tyres mm	Pipe length mm	⟷ mm	
						A	B
47.368.03	Compact	160	35x35x1.2	260	520	480	-
47.368.04	Standard	180	35x35x1.2	370	520	535	-
47.368.07	Heavy Duty (long pipe and double wheel)	240	35x35x1.4	370	890	905	205

◢ 47.368.04

◢ 47.368.03



◢ 47.368.07

► Boat trailers

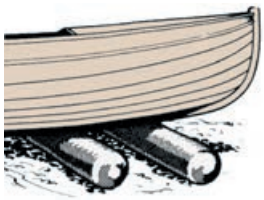
Folding KAYAL TROLLEY

Anodized aluminium trolley with tyres designed to transport kayaks/canoes also on sand thanks to its large section tyres (260-mm Ø, 90-mm width).

Code	Max capacity kg
47.369.15	75

► Hauling rolls

OSCULATI



"Roll Boats" Hauling rolls

Made of **PVC** with tear-proof double wall; thermic range from 15° up to 60°; fit for all boats. It can also be used as floating device. It is **the only roller with a 200-kg capacity and with 0.55 mm thickness**.

Code	length cm	Ø cm	Load kg	Thickness mm
47.934.00	125	22	200	0.55

OSCULATI

Hauling roll "Super Boats"

Made of **PVC** with double tear-proof wall; suited for all boats; can also be used as floating device.

Code	Length cm	Ø cm	Load kg
47.936.00	125	22	500

OSCULATI

Hauling roll

Made of extra strong **PVC fabric**, fitted with special dinghy valve.

Code	length cm	Ø cm	Load kg
47.935.00	125	25	600

Polyform US

Hauling roller for heavy inflatables

Code	Model	Ø				kg	ORDER BY BOX
		cm	inch	cm	inch		
33.512.12	F4	22	9	104	41	3.4	5
33.512.13	F6	30	12	109	43	4.6	5

► Yacht legs

Stern drive jack

Trolley for stern drives. Adjustbale on 3 axles, it allows the stern drive perfect alignment and makes operations faster. Mounting possible with a single operator.

Code	Max load kg	Min/max height cm	kg
47.396.00	340	48/84	71

► Outboard engine carriers

Outboard engine carrier, small version

Fitted with **zinc plated steel** pipes and **polyurethane lacquered evaporated beech** board.

Code	Pipe Ø mm	Board width mm	Hight cm	For Outboard
47.370.00	22	310	90	with shaft **long** up to 25 HP (2T) or 15 HP (4T)

47.370.00

Outboard engine carrier, large

Fitted with galvanized steel pipe and **phenolic plywood** board.

Code	Pipe Ø mm	Bord width mm	For outboard
47.371.02	30	450	with shaft length 150 HP (2T) and 115 HP (4T)

47.371.02

Outboard engine carrier with wheels

Fitted with wheels and **zinc plated steel** tank bracket, **evaporated beech** polyurethane lacquered board.

Code	Pipe Ø mm	Height cm	Board mm	For outboard up to
47.373.00	22	85 (for long leg)	310	25 HP (2S) and 15 HP (4S)
47.373.02	25	95 (for extra long leg)	430	30 HP (2S) and 20 HP (4S)

47.373.00/02

MEDIUM outboard engine foldable carrier

6" tyres. Completely made of zinc chromed steel. Polyurethane coated phenolic plywood board, .

Code	For engines up to HP	Wheel Ø mm	Board mm
47.372.10	30 (2S) - 20 (4S)	260	420 x 225

47.372.10

Outboard engine carrier "Super"

Fitted with **nylon and rubber** wheels, it includes a tank-holder and is fitted with a special closing system so the carrier folds fast and takes little space. Made of **galvanized chrome**. Polyurethane-coated **phenolic plywood** board, professional model fitted with two 4x8" tyres.

Code	For outboard up to	Wheel Ø mm
47.372.00	150 HP (2T) e 115 HP (4T)	390

47.372.00

47.368.02 *Spare wheels 390-mm Ø equipped with tires, suitables for trailers: 47.372.00-368.00/01-369.10*

Spare wheel - 370-mm Ø

47.368.02 Fitted with tires, suitable for trailers: 47.372.00-369.10. 20-mm Ø bore.

47.638.02

ODESEA TX-65 engine carrier with foldable wheels

Lightweight yet sturdy and stable.

The new TX-65 weighs as little as 4 kg and perfectly fits any outboard engine (even with long shaft) up to 60 kg.

Made of anodized aluminium box tube and stainless parts.

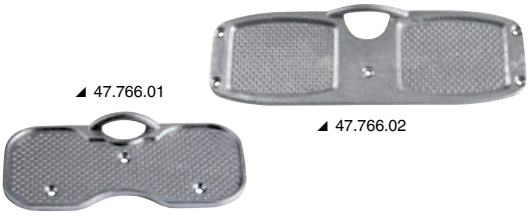
Code	Max capacity kg	HP approx. value	⟷ mm		kg
			open (WxLxH)	closed (WxLxH)	
47.372.60	60	Up to 20/25	525x500x1100	395x245x720	4

► Outboard engine stern plates

Stern double plate

Made of flexible **PVC**, front and back, also suited as antivibration device, universal size.

Code	Color	⟷ mm
47.764.00	Grey	400x280



◢ 47.766.01

◢ 47.766.02

Transom protective plate with ring

Made of **aluminium**, fitted with motor-protection safety ring.

Code	⟷ mm
47.766.01	200x94 (up to10 HP)
47.766.02	316x100 (over to 10 HP)

Transom protective plate

Made of black coated anodized **aluminium**.

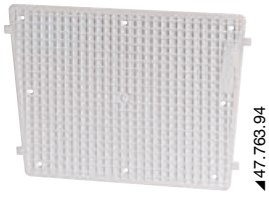
Code	⟷ mm
47.763.92	260x110

◢ 47.763.90/91

Knurled plastic stern protection plate

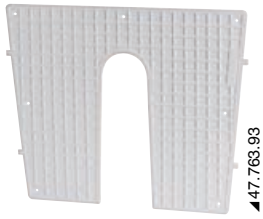
white	cream RAL 9001	Version	⟷ mm	Thickness
47.763.90	-	internal	230x85	-
47.763.91	-	internal	270x100	-
47.763.94	-	-	300x220	-
47.763.93	**47.764.93**	external	430x350	-
47.763.95	**47.764.95**	wedge-shaped to adjust engine inclination	420x340	22 mm to 1 mm

◢ 47.763.95



◢ 47.763.94

◢ 47.764.95/93



◢ 47.763.93

◢ 47.763.95

► Toolboxes and waterproof cases

New AMPHIBIOUS drytools padded and watertight bag

100% waterproof, watertight up to 1.5-m depth. Watertight zip fastener, reflecting stripes all around the bag, fitted with convenient inside pocket and four adjustable straps. It can also be used as waistbag.

Code	Capacity	Colour	💧	🛟	⟷ cm	g
47.222.01	3,2 l	black	5+	4	29x17x6.5	335

Genuine MAFRAST boxes, watertight and shock-resistant

Watertight up to a 9-m depth. Made of **shock-resistant resins**, fitted with O-rings and covered with soft foam lining that **perfectly adapts** to the objects to be put away. Ideal for instruments and delicate objects to protect from shocks and humidity. The boxes are equipped with a special bleeding valve for underwater use. **Yellow colour**.

Code	⟷ mm		MAFRAST model	Colour
	outside	inside		
47.220.01	210x167x90	186x123x75	WR-07	Yellow
47.220.02	330x280x120	300x220x90	WR-12	Yellow
47.220.03	430x380x154	395x320x117	WR-16	Yellow
47.220.04	515x355x225	510x292x175	WR-20	Yellow

Multipurpose watertight case

MADE IN ITALY

Code	Colour	⟷ outside mm
47.221.49	Orange	470x370x180

Professional tool box

OSCULATI

Box made of shock-resistant plastic, **hardened carbon steel** tools. Designed to include tools for a wide range of jobs required on sail or motor boats.
It includes 52 tools:
1 x 4-mm Ø pin-driver; 1 x 150-mm flat chisel; 9 x metric combined wrenches (7-8-10-11-13-14-17-19-21 mm); 3 x fork wrenches (3/8x7/16 - 1/2x9/16 -5/8x11/16"); 4 x Allen wrenches (3-4-5-6-mm Ø); 1 x adjustable wrench with 200-mm graduated scale; 9 x metric socket wrenches (10-11-12-13-14-17-19-22-24-mm Ø); 5 x socket wrenches (7/16 - 1/2- 9/16 - 11/16 - 7/8" Ø); 1 x extension cord with 1/2" (250-mm) male and female square fittings; 1 x joint with 1/2" male and female square fittings; 1 x 1/2" male socket with sliding pin; 1 x reversible pawl with 1/2" male square fitting; 1 x socket wrench with 1/2" female socket for sparkplugs; 1 x adjustable overlapping hinge pliers, PVC coated handles, 235-mm; 1 x self-locking adjustable, 220-mm concave splice bar; 1 x clipper with diagonal cutting edges, PVC coated handles; 1 x universal pliers with anti-slip PVC coated handles; 3 x adjustable screwdrivers (3x75 - 5,5x100 - 6,5x150 mm); 3 x Phillips screwdrivers (0x3x60 - 1x5x80 - 2x6x100 mm); 1 x German hammer with wooden handle - 1 belt wrench for oil filters 160-mm max Ø; - 1 small saw - 1 stainless steel boat knife.

Code	⟷ mm
47.357.00	500x400x9.5

BETA maintenance case made of antishock plastic material

Beta

The kit includes **55 tools** to service all kinds of sailing and motor boats. Case with 4 watertight closures and rubber seals.
It contains:
7-8-10-12-13-14-17-19-mm combined wrenches; 3/8x7/16 - 1/2x9/16 - 5/8x11/16" fork wrenches; 1.5 :10-mm Allen wrenches; 200-mm adjustable wrench with graduated scale; 1/2", 10-12-13-14-17-19-mm hex socket wrenches; 1/2", 7/16 -1/2 - 9/16 - 11/16 - 7/8" socket wrenches; 255-mm - 1/2" extension cable; 1/2" joint - 1/2" socket with sliding pin; 1/2" reversible pawl; 16-20.8-mm socket wrench for spark plugs; 240-mm self-locking adjustable pliers; 160-mm clipper with diagonal cutting edges; scissors with straight blade for electricians; 180-mm universal pliers; 160-mm pliers with straight half-round noses; 3x75 - 4x100 - 5.5x150 - 6.5x150-mm flat blade screwdriver; Phillips® PH1x80 - PH2x100-mm screwdriver; hammer with 35-mm Ø plastic head; belt wrench for oil filters; brass wire brush; clasp knife for boating; BM clamps; insulating tape, 25 m.

Code	⟷ mm	kg
47.360.01	580x410x90	9

Special outboard sparkplug wrench

47.556.00 Special designed that provides an easy access to the fairing; universal size.

► Cylinder-holders

ROLL CONTROL

47.337.00 Wall-mount bracket for scuba diving compressed air bottles, universal size; fitted with a nylon slide-base for wall-mounting, wherein the bracket is mounted onto; **adjustable** width and **foldable**; made of **white polypropylene**, the kit includes **2** bases + **2** brackets.

► Spark plugs

Champion spark-plugs

We offer any type of Champion spark-plug upon request.

Code	Version	Code	Version
47.557.00	J6C	**47.557.14**	QL78YC
47.557.03	L76V	**47.557.12**	QL82C
47.557.02	L77JC4	**47.557.15**	QL82YC
47.557.06	L78C	**47.557.01**	QL86C
47.557.05	L78V	**47.557.11**	QL87YC
47.557.29	L78YC	**47.557.20**	RA8HC
47.557.28	L82C	**47.557.36**	RS12YC
47.557.13	L82YC	**47.557.27**	RV15YC4
47.557.07	L86C	**47.557.16**	RV8C
47.557.51	QL77CC	**47.557.46**	XC12PEPB
47.557.08	QL77JC4	**47.557.59**	QC10WEP
47.557.19	QL78C	**47.557.60**	QC8WEP

NGK Japanese spark plug

Standard fitting on Mariner, Yamaha, Suzuki, Mercury, Tohatsu, Selva and Honda.

Code	Model	Champion correspondences	Code	Model	Champion correspondences
47.558.12	B6HS	L86C	**47.558.75**	BR9ES	-
47.558.74	B6S	J8C	**47.558.07**	BR9HS-10	QL77JC4
47.558.01	B7HS	L82C	**47.558.55**	BU8H	L6VC
47.558.10	B7HS-10	L77JC4	**47.558.23**	BUHW	L76V
47.558.03	B8HS	L78C	**47.558.24**	BUHW-2	L78Y
47.558.08	B8-HS-10	L78C	**47.558.05**	BUZHW-2	QL78Y
47.558.81	B8S	-	**47.558.63**	BZ7HS-10	-
47.558.06	B9HS-10	L77JC4	**47.558.62**	CPR6EA9	-
47.558.49	BKR6E	RC12YC	**47.558.15**	CR4HSB	-
47.558.13	BP6HS	L87YC	**47.558.53**	CR5EH9	79Y
47.558.14	BP7HS	L82YC	**47.558.50**	CR5HSB	79Y
47.558.66	BP7HS10	-	**47.558.16**	CR6E	-
47.558.22	BP8HN-10	L78YC	**47.558.40**	CR6HS	Z9Y
47.558.94	BP8HS-10	-	**47.558.95**	CR6HSA	P-RZ-9HC
47.558.82	BP8HS-15	-	**47.558.77**	CR9EB	RG4-PHP
47.558.83	BPR5EFS	-	**47.558.48**	DCPR6E	RA8HC
47.558.28	BPR5ES	RN11YC4	**47.558.32**	DCPR7E	RA8HC
47.558.26	BPR6EFS	RS12YC	**47.558.31**	DPR6EA9	RA8HC
47.558.34	BPR6ES	RN9YC	**47.558.42**	DPR6EB9	RA8HC
47.558.71	BPR6FS	-	**47.558.17**	DR5HS	P10Y
47.558.11	BPR6HS	RL87YC	**47.558.18**	DR6HS	P8Y
47.558.84	BPR6HS-10	RL87YC	**47.558.19**	DR7EA	RA8HC
47.558.46	BPR7HS	RL82YC	**47.558.60**	ILFR6GE	-
47.558.47	BPR7HS-10	RL82YCC	**47.558.87**	ITR4A15	-
47.558.21	BPZ8HN-10	QL78YC	**47.558.68**	IZFR5G	-
47.558.45	BPZ8HS-10	QL78YC	**47.558.88**	IZFR5J	-
47.558.85	BPZ8HS-15	-	**47.558.44**	IZFR6F-11	-
47.558.37	BR5HS	L90C	**47.558.51**	IZFR6K-11	3071
47.558.86	BR6ES	-	**47.558.59**	LFR4AE	-
47.558.25	BR6FS	RV9YC (RV8C)	**47.558.38**	LFR5A-11	-
47.558.36	BR6HS	RL86C	**47.558.39**	LFR6A-11	-
47.558.41	BR6HS-10	L86C	**47.558.93**	LKR7E	-
47.558.35	BR7HS	RL82C	**47.558.64**	PZFR6H	-
47.558.02	BR7HS-10	L82C	**47.558.92**	ZFR5F	RC12-LYC
47.558.76	BR8ES	-	**47.558.97**	ZFR6K-11	-
47.558.56	BR8-HS	QL75C	**47.558.43**	ZFR7F	-
47.558.09	BR8-HS-10	QL78C			

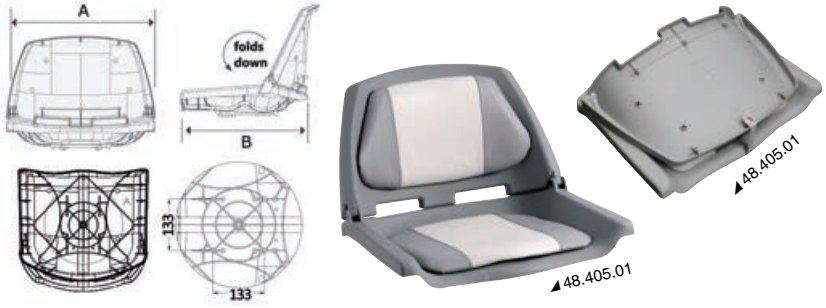
► Seat frames

OSCULATI

Polyethylene seat with foldable backrest

Fitted with cushion, surface mounting or mounting on seat pedestals available in our catalogue (versions without slide).

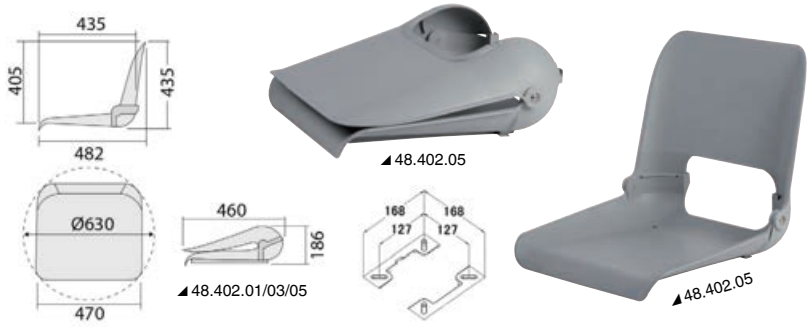
Code	Seat AxB mm	Colour
48.405.00	500x430	White/white
48.405.01	543x466	Grey/white



Seat with foldable backrest and pull-out padding

High-quality vinyl cushions, technopolymer zip fastener.

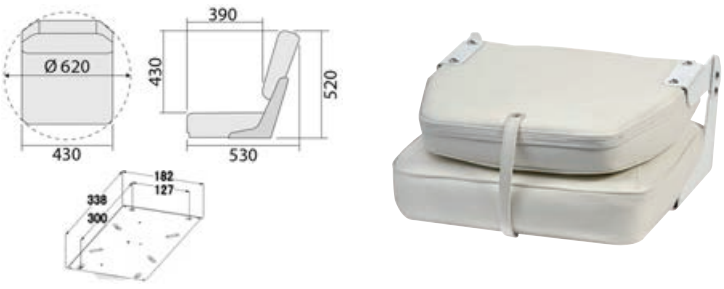
Code	Type	Colour
48.402.01	Lined with high-quality vinyl	White RAL 9010
48.402.03	Lined with high-quality vinyl	White/Blue RAL 9002 + RAL 5013
48.402.05	Frame only, no cushions	- -



De Luxe seat with foldable backrest

High-quality vinyl cushions, aluminium zip fastener.

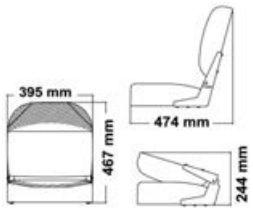
Code	Type	Colour
48.403.01	Lined with high-quality vinyl	White RAL 9010
48.403.03	Lined with high-quality vinyl	White/Blue RAL 9002 + RAL 5013



Seat with foldable backrest

Vinyl cushion, aluminum zip fasteners.

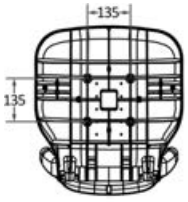
Code	Colour	⟷ mm
48.404.01	White	400x467x474
48.404.02	Navy blue	400x467x474
48.404.03	Sand	400x467x474

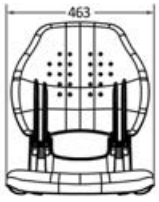


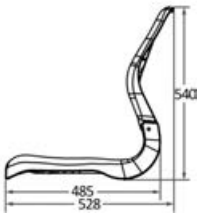
Sirocco ergonomic seat

Foldable seat with lock.
HD foam core. UV-resistant upholstery.
Lower fastening bores with standard centre distance.

Code	Upholstery colour
48.407.01	White
48.407.04	Light and dark grey



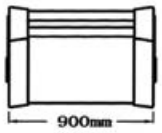


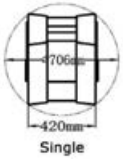


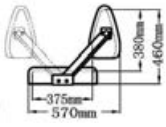
Reverso seat with rotating backrest

It can be used both forwards and backwards.

Code	Type	Colour
48.410.04	Reverso, single	White RAL 9010
48.410.03	Reverso, double	White RAL 9010







Ergonomic seat with foldable backrest

Made of **white elastic leather fabric**, thick-cushioned with moltopren core and marine **plywood** frame. Fitted with **stainless steel** hinges.
Ideal as cabin seat, peak seat in open boats or dinghies.

Code	Depth mm	Width mm	Foldable hinge included
48.415.00	400	450	**48.418.04**

Two-place seat

Lined with **white leather fabric**, it can be mounted on storage lockers and peaks.
Foldable backrest, it can be used in **drive position or turned backwards**.

Code	⟷ mm
48.412.00	800x400

Two-place ergonomic seat with foldable backrest

Slat bottom covered in **white elastic artificial leather** padded with moltopren.
Multi-layer plywood frame. Fitted with **stainless steel** hinge.

Code	Depth mm	Width mm	Foldable hinge included
48.415.02	400	800	**48.418.04**
48.415.03	400	900	**48.418.04**

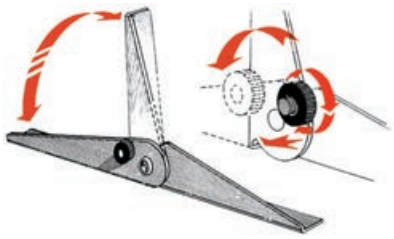
Hinge set

Made of **stainless steel**, for seats.
Fitted with stopper in two positions: **driving position and 180°** sun rest position.

Code	⟷ side mm	⟷ open mm
48.418.04	330x60	660x60

48.415.00; 48.415.02; 48.415.03 *Seats suitable for this kind of hinges*

OSCULATI

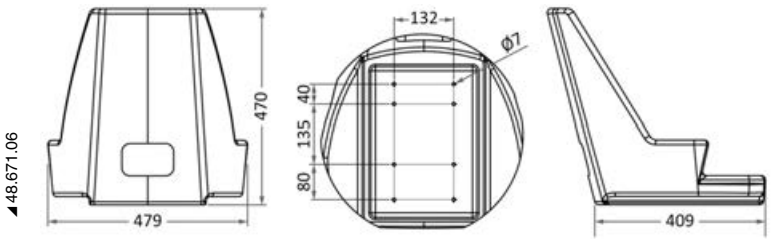


Compact seat frame

Made of **white polyethylene**, it comes with Super extra-padded cushions.
For all pedestals available in our catalogue.
Fitted with 8 brass threaded inserts for fixing pedestals and slides.

Code	Depth mm	Height mm	Width mm	Frame only	Set of additional cushions
48.670.06	400	490	490	**48.671.06**	**48.672.06**

Supplied without pedestal

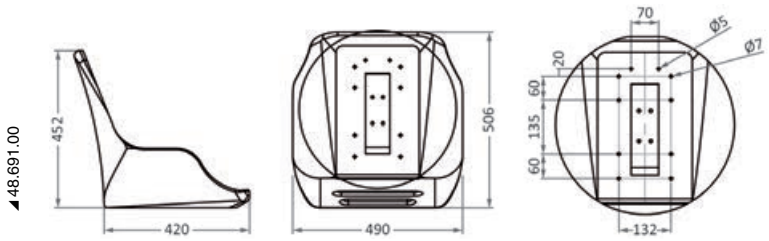


Seat frame

Made of white rotational moulded **polyethylene**, fitted with removable cushions.
Ready to fit any pedestal available in our catalogue.
Fitted with 8 brass threaded inserts for fixing pedestals and slides.

Code	Depth mm	Height mm	Width mm	Frame only	Set of additional cushions
48.690.00	520	480	480	**48.691.00**	**48.692.00**

Supplied without pedestal



Seat frame

Made of white rotational moulded **polyethylene**.
Ready to fit **any pedestal available in our catalogue**.
Fitted with 8 brass threaded inserts for fixing pedestals and slides.

Code	Depth mm	Height mm	Length mm	OPTIONAL set of cushions
48.682.01	430	400	445	**48.682.02**

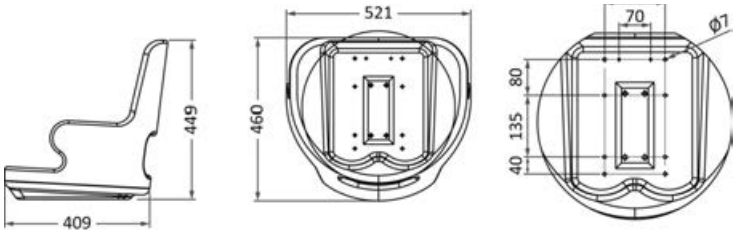
Cushins not included.

Seat frame

Made of white rotational moulded **polyethylene**, fitted with removable cushions.
Weatherproof model ideal for open boats. Compact and very comfortable, ready to fit any pedestal available in our catalogue. Fitted with 8 brass threaded inserts for fixing pedestals and slides.

Code	Depth mm	Height mm	Width mm	Frame only	Set of additional cushions
48.680.08	420	470	520	**48.681.08**	**48.682.08**

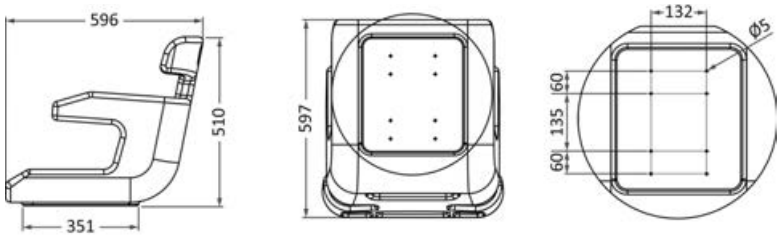
Supplied without pedestal.



Comfort seat frame

Made of white rotational moulded polyethylene. Ready to fit any **pedestal** available in our catalogue. Fitted with 8 brass threaded inserts for fixing pedestals and slides.

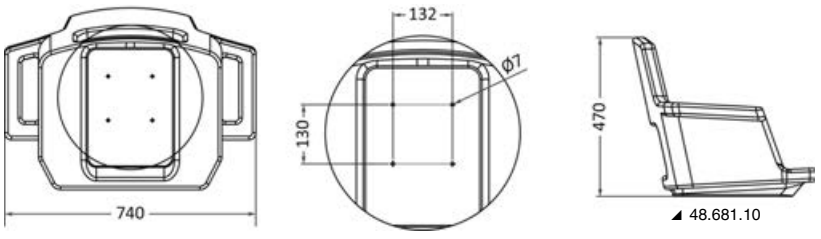
Code	⟷ mm				OPTIONAL set of cushions
	Seat without cushion	Seat with cushion	Backrest without cushion H	Backrest with cushion H	
48.684.01	500x440	500x530	520	700	**48.684.02**



Seat

Made of **white polyethylene**, fitted with **removable white leather fabric** cushions.
Weatherproof model ideal for the flybridge since it suffers **no deterioration**. Very comfortable shape. The base is fitted with **multiple stainless steel inserts** to connect to any swivelling pedestal in our catalogue. Fitted with 8 brass threaded inserts for fixing pedestals and slides.

Code	Depth mm	Height mm	Width mm	Frame only	Set of additional cushions
48.680.10	470	545	690	**48.681.10**	**48.682.11**

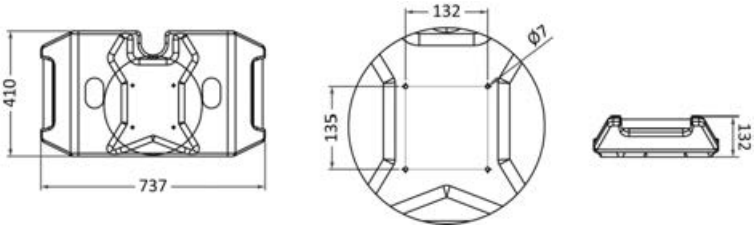


◢ 48.681.10

Adriatico fighting chair

Made of **white polyethylene**, fitted with side **stainless steel** handles, two partially balancing fishing rod holders on both sides, one balancing central fishing rod holder made of **aluminium**.
Ready for all pedestals available in our catalogue. Industrial product featuring excellent quality at a very affordable price. **Supplied without pedestal and cushion**.

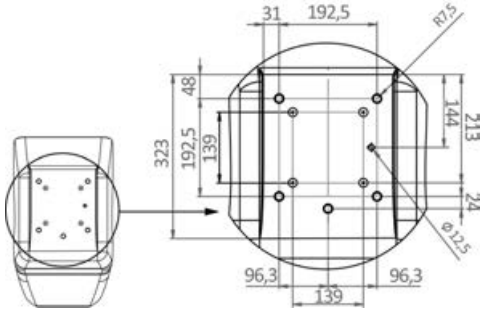
Code	⟷ mm	Cushion
48.680.07	737x410	**48.680.25**



Ergonomic seat

Made of **white or cream leather fabric** with vertical patterns, **supplied without pedestal**.

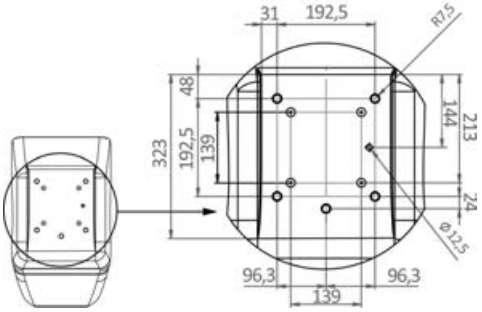
Code	Depth mm	Height mm	Width mm
48.406.00	500	500	400



Ergonomic seat frame

Made of rotomoulded **polyethylene**, fitted with **brass** inserts (multiple on the base).
It fits several pedestals and slides.

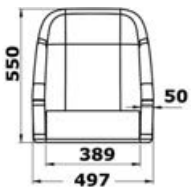
Code	Depth mm	Height mm	Width mm
48.680.14	660	610	508

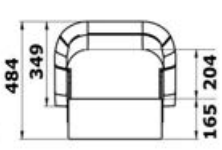


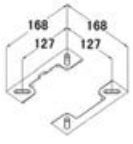
Compact padded seat with H51 flip-up bolster

Plastic and aluminium core. HD foam padding. Very compact for use in confined spaces.
Ideal for pilot boats.

Code	Upholstery	Colour
48.410.05	Lined with soft vinyl	Beige
48.410.06	Lined with soft vinyl	White RAL 9010
48.410.15	Padding to be lined	- To be lined



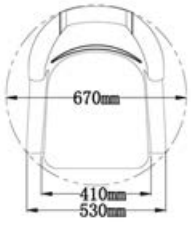


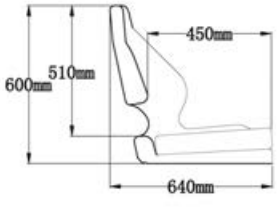


De Luxe ergonomic seat

Technopolymer core, HD foam padding, lumbar support. In compliance with the ABYC regulations.

Code	Type	Colour
48.410.08	High-quality vinyl upholstery	White RAL 9010
48.410.18	With padding, to be lined	- -





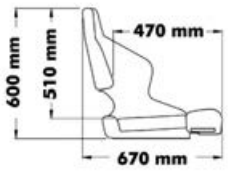
Indicative picture - example of customization

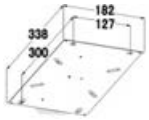
◢ Indicative picture:
example of customized item

Ergonomic padded seat with H52 flip-up bolster

Rotational moulded plastic core. HD foam padding. Opening in the lumbar region.
In compliance with ABYC standards.

Code	Type	Colour
48.410.02	**Soft vinyl upholstery**	☐ White RAL 9010
48.410.12	With padding **ready to be lined**	- -

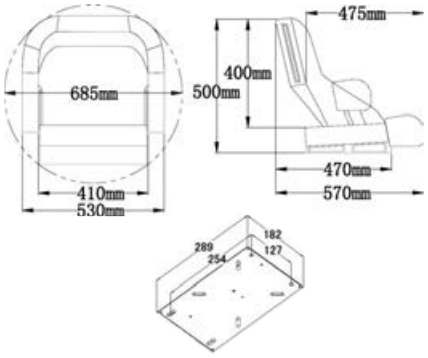




Ergonomic padded seat with H52R flip-up bolster

Plastic and aluminium core. HD foam padding.

Code	Type	Colour
48.410.07	High-quality vinyl upholstery	☐ White RAL 9010
48.410.17	With padding, to be lined	- -



◢ 48.410.01

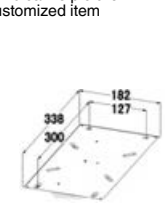
◢ 48.410.11

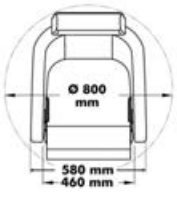
Ergonomic padded seat with H54 flip-up bolster

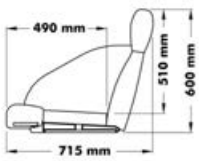
Rotational moulded plastic core. HD foam padding.
In compliance with ABYC standards.

Code	Type	Colour
48.410.01	**Soft vinyl upholstery**	☐ White RAL 9010
48.410.11	**Ready to be lined** in your favourite colour	- -

◢ Indicative picture:
customized item



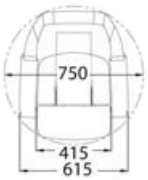


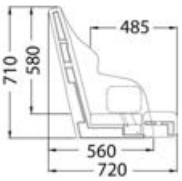


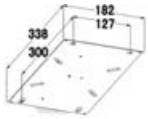
Padded ergonomic seat with flip up 3090

Rotary moulding plastic core, high-density foam padding.

Code	Type	Colour
48.410.22	**Covered** in soft vinyl	☐ White RAL 9010
48.410.32	With padding, ready to be covered	- -



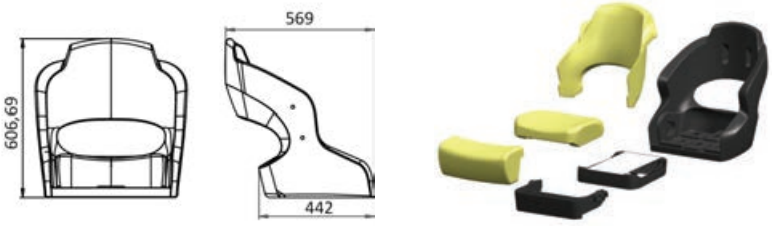




ATTWOOD Aergo seat

48.408.30 Kit including plastic frame
+ flip-up bolster
+ padding ready to be upholstered.
This seat features the SAS-Shock Absorbing System that absorbs the shocks without transferring impact to the boater.

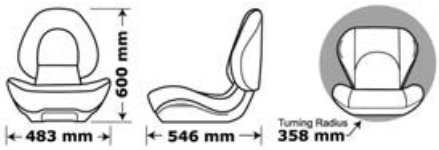
⚠ Indicative picture. **The seat is supplied without upholstery**.
Fabric or leather fabric at customer's choice **not included in the price.**

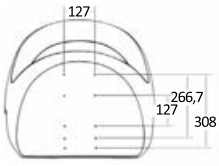


ATTWOOD Centric II ergonomic and folding seat

48.408.10 Seat
+ **foldable** backrest
+ 3 parts made of foam.

Seat frame designed for proper water drainage.
The seat is fitted with standard bushings for fastening to a pedestal.
Supplied **without upholstery** (to be taken care of at the shipyard).





◢ Indicative picture: example of customized item

Fabric seat cover

Made of polyester fabric and waterproof polyurethane coating.

Code	⟷ AxBxH cm	Colour	Fabric deniers	For seat
48.688.01	45x55x53	Grey	300 D	Single-seater
48.688.02	60x60x65	Grey	300 D	Single-seater
48.688.03	53x90x89	Grey	300 D	Two-seat

► Seat pedestals and slides

OSCULATI

Anodized aluminium swivel pedestal with seat mount

MADE IN ITALY

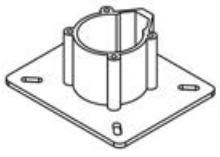
Fitted with antifriction **nylon** bushings. Accurate finish. Mirror-finish anodized tube. 230-mm Ø tube.

Code	Height mm	Type	Upper base	Mounting base	Tube Ø mm	Base Ø mm
48.665.01	300	Fixed	reinforced nylon	sandblasted	80	230
48.660.01	300	Fixed	reinforced nylon	polished	80	230
48.640.01	300	Fixed	aluminium	sandblasted	80	230
48.650.01	300	Fixed	aluminium	polished	80	230
48.665.02	450	Fixed	reinforced nylon	sandblasted	80	230
48.660.02	450	Fixed	reinforced nylon	polished	80	230
48.640.02	450	Fixed	aluminium	sandblasted	80	230
48.650.02	450	Fixed	aluminium	polished	80	230
48.665.00	450/620	Telescopic	reinforced nylon	sandblasted	80/73	230
48.660.00	450/620	Telescopic	reinforced nylon	polished	80/73	230
48.640.00	450/620	Telescopic	aluminium	sandblasted	80/73	230
48.650.00	450/620	Telescopic	aluminium	polished	80/73	230

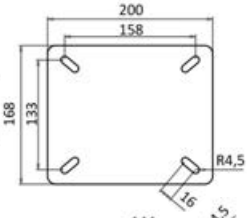
Customized heights on request (min. 10 pcs)

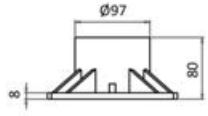
◢ Polished base

◢ Sandblasted base

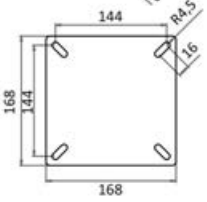


◢ 48.640.xx; 48.650.xx





◢ 48.660.xx; 48.665.xx



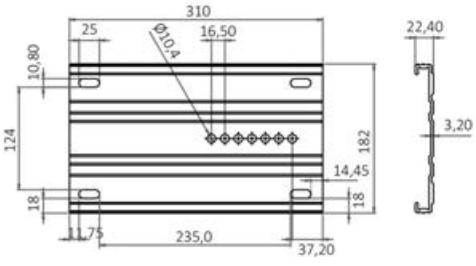
Pedestal with swivel slide

MADE IN ITALY

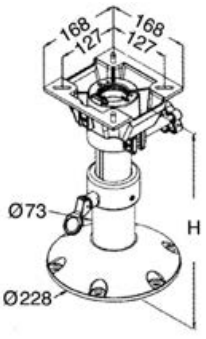
Fitted with anti-friction nylon bushing. Fine finish. Mirror-polished anodized tubes.

Code	Height mm	Type	Base mounting	Pedestal Ø mm	Base Ø mm
48.625.01	300	Fixed	sandblasted	80	230
48.630.01	300	Fixed	polished	80	230
48.625.02	450	Fixed	sandblasted	80	230
48.630.02	450	Fixed	polished	80	230
48.625.00	450/620	Telescopic	sandblasted	80/73	230
48.630.00	450/620	Telescopic	polished	80/73	230

Customized heights on request (min. 10 pcs).



◢ 48.709.98



Pedestal with swivel seat mount

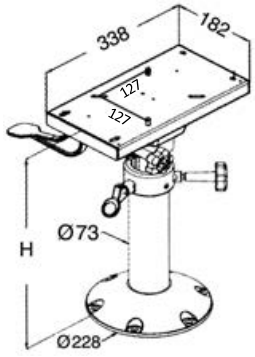
Base and pedestal made of anodized aluminium + grey coated aluminium swivel seat mount.

Code	H mm	Type	Pedestal Ø mm	Base Ø mm
48.709.98	280/380	Telescopic	73/60	228
48.709.99	340/470	Telescopic	73/60	228
48.710.00	430/630	Telescopic	73/60	228
48.710.02	457	Fixed	73	228

Pedestal with swivel slide

Base and pedestal made of anodized aluminium + anodized aluminium swivel slide.

Code	H mm	Type	Pedestal Ø mm	Base Ø mm
48.710.98	280/380	Telescopic	73/60	228
48.710.99	340/470	Telescopic	73/60	228
48.711.00	430/630	Telescopic	73/60	228
48.711.01	330	Fixed	73	228
48.711.02	457	Fixed	73	228

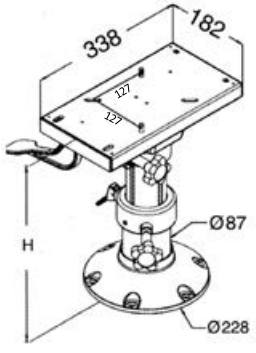


Mirror-polished pedestal with swivel slide

Base and pedestal made of mirror-polished anodized aluminium + anodized aluminium swivel slide.

Code	H mm	Type	Pedestal Ø mm	Base Ø mm
48.711.98	295/395	Telescopic	87/73	228
48.711.99	340/470	Telescopic	87/73	228
48.712.00	430/630	Telescopic	87/73	228
48.712.02*	457	Fixed	87	228

* *To be cut to size*



Pedestal with seat mount

GAS SPRING / MOLLA A GAS

Made of mirror-polished anodized aluminium, fitted with large diameter bases and thick tubes. It matches any seat frame.

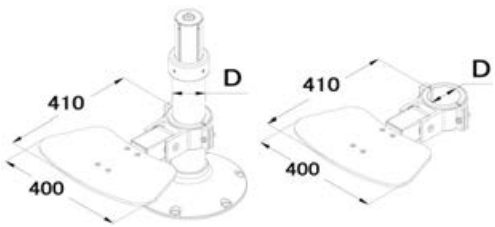
Code	Height mm	Type	Table plate mm	Pedestal Ø mm	Base Ø mm	Base
48.703.58	300/400	Telescopic	335x185	88/73	305	Polished
48.703.59	350/480	Telescopic	335x185	88/73	305	Polished
48.703.60	460/595	Telescopic	335x185	88/73	305	Polished
48.704.61 New	530/710	Telescopic	338x182	87	305	Polished
48.701.60	600	Fixed	335x185	73	305	Polished

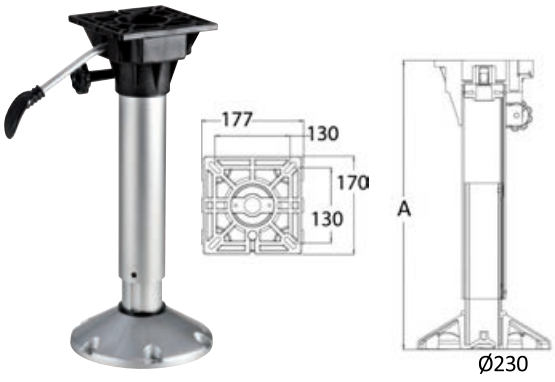
Customized height on request (min. 10 pcs).

Foldable footrest board

Anodized aluminium.

Code	Neck (D) Ø mm	Matching seat mounts (with 87-mm Ø pedestal)	⟷ mm
48.715.01	87	**48.703.58/59/60; 48.711.98/99; 48.712.00**	400x220x400 (overhang)





Waverider adjustable swivel pedestal with seat mount with shock absorber

SHOCK ABSORBER

Adjustable height with gas spring.
Fitted with internal shock absorber to absorb the boat impact against the waves.
Epoxy-coated anodized aluminium base. Anodized aluminium tubes.
Nylon/fiberglass seat mount with universal bores.

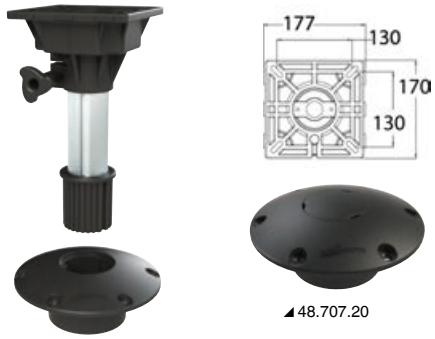
Code	Height A mm	Type	Pedestal Ø mm	Base Ø mm
48.707.01	340/450	Telescopic	75/65	230
48.707.02	500/630	Telescopic	75/65	230
48.707.03	580/710	Telescopic	75/65	230

Waverider pedestal with seat mount, shock absorber, swivel support and outer base

SHOCK ABSORBER

Adjustable height with gas spring.
Fitted with internal **shock absorber** to absorb the boat impact against the waves.
It can be removed from its 228-mm Ø base. Anodized aluminium tubes.
Nylon/fiberglass seat mount with universal bores.

Code	Height mm	Type	Column Ø mm	Additional snap-in base
48.707.23	370/450	Telescopic	75/65	**48.707.30**
48.707.21	500/630	-	75/65	**-**
48.707.22	580/710	-	75/65	**-**

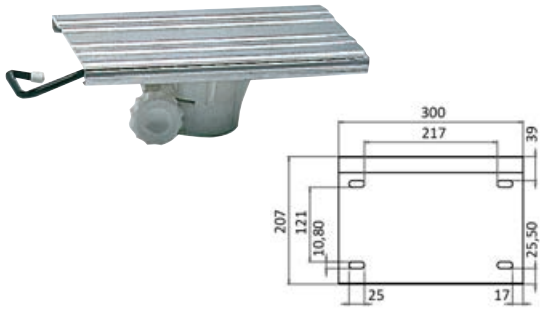


Waverider pedestal with seat mount, shock absorber, swivel support and

SHOCK ABSORBER

Adjustable height with gas spring.
Fitted with internal **shock absorber** to absorb the boat impact against the waves.
It can be removed from its 228-mm Ø base. Anodized aluminium tubes.
Nylon/fiberglass seat mount with universal bores.

Code	Height mm	Type	Column Ø mm	Additional snap-in base
48.707.10	310/390	Telescopic	75/65	**48.707.20**
48.707.11	440/570	Telescopic	75/65	**48.707.20**
48.707.12	520/650	Telescopic	75/65	**48.707.20**



Slide kit for pedestals

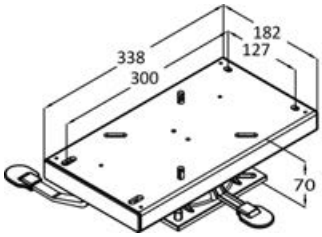
Universal for all aluminium models.
Upper swivelling joint, 150-mm stroke.
Made of nylon/fiberglass and aluminium for the slide.

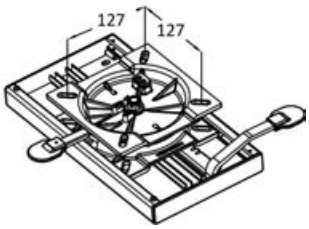
Code	Tube Ø mm	For pedestals
48.692.04	73	Telescopic
48.692.05	80	Fixed

Swivel slide

Made of anodized aluminium, it fits any 73-mm Ø pedestal.

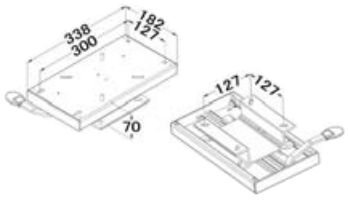
Code	Type
48.713.00	Slide

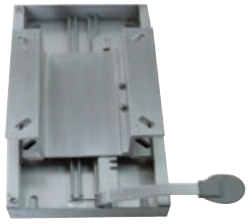




Slide for seats

48.714.00 To be fixed to a flat surface. Made of anodized aluminium.
It matches any rotating base such as 48.648.03

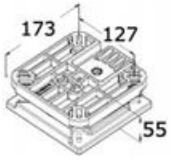


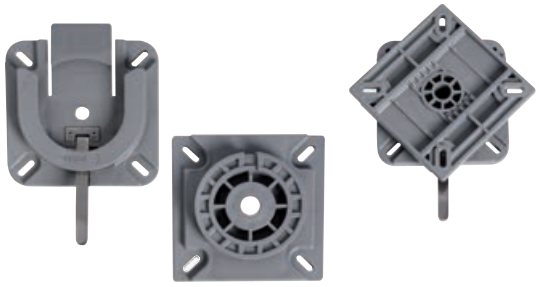


Rotating and removable base

Quick release base.
Locked forward position and 360° friction rotation.

Code	Rotation	Material	⟷ mm
48.648.15	360° + locked forward position	Plastic	173x173

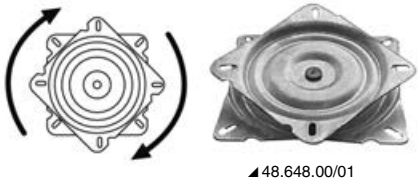




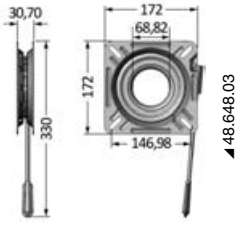
Friction rotating base for seats

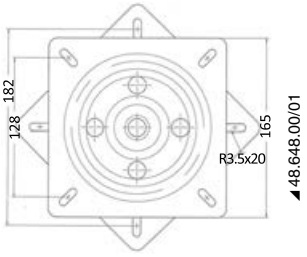
Ideal for fishermen as it can rotate as wished.
Ready to match any pedestal in our catalogue.
Aluminium seats and other seats in our catalogue.

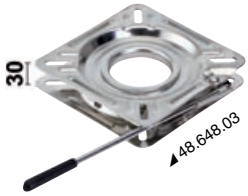
Code	Rotation	Material
48.648.00	on one track with ball bearings	Painted steel
48.648.01	on one track with ball bearings	Stainless steel
48.648.03	on one track with ball bearings + snap lock with handle	Stainless steel



◢48.648.00/01







Foldable footrest board

Made of epoxy-resin coated light alloy. Real TEAK platform.

Code	Platform mm	Open footrest board mm		Folded footrest board mm	
		overhang	support height	overhang	support height
48.587.00	300x150	200	185	80	244

Non-slip footrest board with frame

AISI 316

Made of mirror-polished **AISI316 stainless steel**, soft black plastic insert, fitted with central **WHITE LED** built-in light.

Code	⟷ mm
40.523.01	213x57
40.523.02	222x86

Footrest board

Made of **chromed brass and rubber**, comfortable and elegant.

Code	Length mm
40.520.01	230x80

► Table pedestals and legs

OSCULATI

White ABS table

Fitted with housings for mugs, glasses or bottles.
It comes with plugs to close the housings for a totally flat surface.

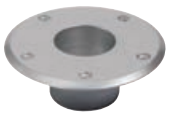
Code	Version	No of glass housings	Ready for	⟷ mm
48.417.90	oval	2	Coupling with bases 48.418.03; 48.418.20; 48.418.22; 48.418.24*	770x510
48.417.92	rectangular	4	Coupling with bases 48.418.03; 48.418.20; 48.418.22; 48.418.24*	810x510

* *And any base having max 178-mm Ø to be flush mounted on the lower side of the table.*

Composite material table

Made of sturdy composite material. Snap mounting on its dedicated bases.

Code	Type	Colour	For	⟷ mm
48.417.50	Round	White	**48.417.60; 48.417.61**	610
48.417.51	Oval	White	**48.417.60; 48.417.61**	762x457
48.417.52 New	Rectangular	White	**48.417.60; 48.417.61**	760 x 460



Spare bases for conical table pedestals

Code	Outer Ø mm	Material	For table pedestal	Tube Ø mm
48.416.02	160	Aluminium	**48.418.01; 48.418.11; 48.418.20**	60
48.416.03	165	Aluminium	**48.418.01; 48.418.11; 48.418.20**	60
48.416.12	160	White painted aluminium	**48.418.22**	60
48.416.13	165	White painted aluminium	**48.418.22**	60
48.416.22	170	Polished anodized aluminium	**48.418.21**	60
48.416.23	160	Polished anodized aluminium	**48.418.21**	60
48.416.33	240	Polished anodized aluminium	**48.418.28**	60
48.416.42	280	Sandblasted anodized aluminium	**48.418.27**	80
48.416.43	250	Polished anodized aluminium	**48.418.27**	80

Aluminium table pedestal with external base

Two identical and interchangeable bases not needing a recess on the floor and on the table.
50-mm overhang from the base.

Code	Height mm	Tube Ø mm	Tube	Base Ø mm	Base	Spare base
48.418.28	70	60	Anodized aluminium	240	Polished anodized aluminium	**48.416.33**

Stainless steel table pedestal

OSCULATI

Made of a tube fitted with two base joints, one to be fitted flush with the floor, the other to be mounted under the table top. The tube is fitted with a self-locking system on the ends so the table can be mounted and disassembled in a matter of seconds.

Code	Height mm	Tube Ø mm	Tube	Table base Ø mm	Floor recess base Ø mm	Base	Spare floor base	Spare table base
48.418.01	700	60	Chrome-plated steel	165	160	Diecast aluminium	**48.416.02**	**48.416.03**
48.418.11	700	60	Mirror-polished SS	165	160	Diecast aluminium	**48.416.02**	**48.416.03**

Anodized aluminium table pedestal

OSCULATI

Two diecast **aluminium** bases (one external and one for flush mounting) model 48.418.01 and an **anodized aluminium** tube model 48.418.21.
Recommended for indoor installation, only.

Code	Height mm	Tube Ø mm	Tube	Table base Ø mm	Floor recess base Ø mm	Base	Spare floor base	Spare table base
48.418.20	700	60	Anodized aluminium	165	160	Diecast aluminium	**48.416.02**	**48.416.03**

Coated aluminium table pedestal

OSCULATI

White epoxy coated finish.
It includes two **aluminium** bases (one external and one for flush mounting) model 48.418.01 and an **anodized aluminium** tube model 48.418.21.

Code	Height mm	Tube Ø mm	Tube	Table base Ø mm	Floor recess base Ø mm	Base	Spare floor base	Spare table base
48.418.22	700	60	White coated aluminium	165	160	White coated aluminium	**48.416.12**	**48.416.13**

White epoxy coated.

Heavy duty table pedestal

OSCULATI

Two **anodized aluminium** bases, one mirror-polished for recess mounting, the other external, and a 60-mm Ø**anodized aluminium** tube with conical fittings.

Code	Height mm	Tube Ø mm	Tube	Table base Ø mm	Floor recess base Ø mm	Base	Spare floor base	Spare table base
48.418.21	700	60	Anodized aluminium	170	160	Anodized aluminium	**48.416.23**	**48.416.22**

Plug

Made of **white plastic**, used to cover the bores of table bases on the floor.

Code	For bases
48.418.17	**48.418.21**
48.418.18	**48.418.01; 48.418.11; 48.418.20; 48.418.22**

Polished stainless steel table pedestal

AISI 316

Code	Height mm	Tube Ø mm	Tube	Base Ø mm	Base
48.418.03	670	50	Polished SS	160	Polished SS

HEAVY DUTY table pedestal

Two **anodized aluminium** bases (one for recess mounting, the other external) and a **80-mm Ø anodized aluminium** tube with conical fittings.

Code	Height mm	Tube Ø mm	Tube	Table base Ø mm	Floor recess base Ø mm	Base	Spare floor base	Spare table base
48.418.27	675	80	Polished anodized aluminium	280	250	Anodized aluminium	**48.416.43**	**48.416.42**

Fastening bracket for table legs

34.358.60 60-mm Ø. Made of black santoprene, for 60- to 63-mm Ø tubes.

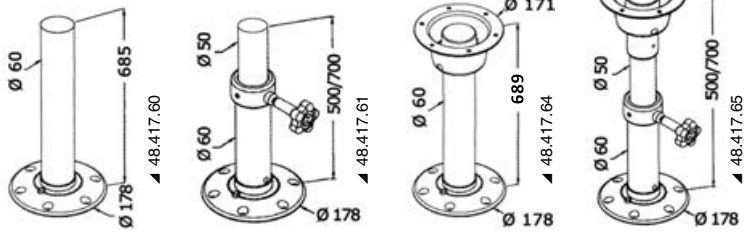
Aluminium table pedestal

Made of anodized aluminium. Their pedestal screws into the base by means of the ingenious and **extremely stable** Tread Lock system. Floor **recessless** mounting of the base, 20-mm overhang.

Code	Height mm	Type	Pedestal Ø mm	Version	Finish
48.417.60*	685	Fixed	60	Specific for table 48.417.50/51/52	Satin-finish anodized
48.417.61*	500/700	Telescopic	50/60	Specific for table 48.417.50/51/52	Mirror-polished and anodized
48.417.64	689	Fixed	60	For generic tables	Satin-finish anodized
48.417.65	500/700	Telescopic	50/60	For generic tables	Mirror-polished and anodized

* *No upper base. Direct connection into the table recess.*

48.417.62 *OPTIONAL Only base for 48.417.xx. To be used as table pedestal in the cabin and in the cockpit.*



Aluminium table pedestal

Made of **anodized aluminium**, fitted with antifriction nylon bushing. Fine finish.

Code	Height mm	Base Ø mm	Pedestal Ø mm
48.651.00	580/780 adjustable	230	80/73

Removable table pedestal

Made of **anodized aluminium**. Very thin upper and lower bases (15-mm overhang), recessless mounting. More heights on request.

Code	Tube length mm	Ø mm	Base Ø mm
48.418.24	700	80	200

Removable tri-telescopic table pedestal

GAS SPRING

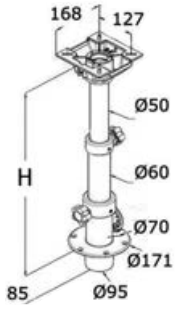
Made of anodized aluminium.
Flush mount base and plug.

Code	Type	Height H mm	Base Ø mm	Tube Ø mm	Upper aluminium base included mm	Optional additional base*
48.421.01	Standard	290/690	171	70/60/50	168x168	**48.421.12**
48.421.03	Gas spring	320/690	171	70/60/50	168x168	**48.421.12**

* *Base plate needed to use the same pedestal in two different places of the boat.*
Remove the plastic insert from the hole centre when using the base plate with pedestal 48.421.03.

◢ 48.421.12
OPTIONAL

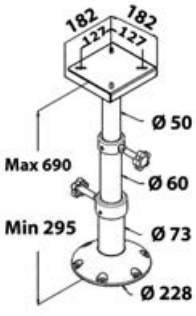
OSCULATI



Tri-telescopic aluminium table pedestal

Manually-operated anodized aluminium pedestal.
No need to bore the floor for downstroke.

Code	Height mm	Base Ø mm	Tube Ø mm	Table plate
48.719.01	295/690	228	73/60/50	182x182



HEAVY DUTY Giant table pedestal

GAS SPRING / MOLLA A GAS

Made of mirror-polished anodized aluminium.
Fitted with **gas spring** for upstroke.
No need to bore the floor for downstroke. Tri-telescopic.

Code	Height mm	Extra-flat base Ø mm	Tube Ø mm	Table plate mm	OPTIONAL extension kit
48.720.01	345/714	305	100/88/72	305x305	**48.724.01; 48.724.02**

OSCULATI

GIANT Deluxe table pedestal

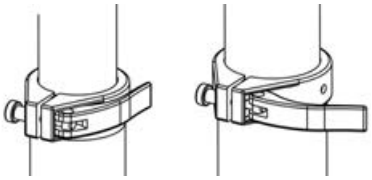
GAS SPRING / MOLLA A GAS

Made of mirror-polished anodized aluminium.
Stainless steel clamping collars for a very stable and sturdy pedestal.
Fitted with gas spring for upstroke.

SS HANDLES / COLLARE INOX

No need to bore the floor for downstroke. Tri-telescopic.

Code	Height mm	Extra-flat base Ø mm	Tube Ø mm	Table plate mm	OPTIONAL extension kit
48.720.03	345/714	305	100/88/72	305x305	**48.724.01; 48.724.02**



OSCULATI

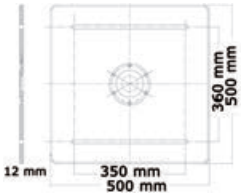
HEAVY DUTY table pedestal, square base

GAS SPRING / MOLLA A GAS

SS HANDLES / COLLARE INOX

Made of mirror-polished anodized aluminium.
Stainless steel clamping collars for a stable and sturdy pedestal.
Fitted with **gas spring** for upstroke, **no need to bore the floor for downstroke**. Tri-telescopic. Polished and anodized aluminium base with milling finish for possible installation and sliding on the floor.

Code	Height mm	Base mm	Tube Ø mm	Table plate mm	OPTIONAL extension kit
48.721.02	341/714	500x500	100/88/72	305x305	**48.724.01; 48.724.02**



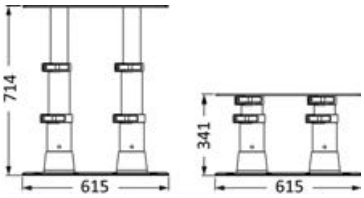
Giant Twins double table pedestal

GAS SPRING / MOLLA A GAS

SS HANDLES / COLLARE INOX

Made of mirror-polished anodized aluminium.
Stainless steel clamping collars for a stable and sturdy pedestal.
Fitted with double gas spring for upstroke, no need to bore the floor for downstroke.
Tri-telescopic. **Suitable for large-size tables.**

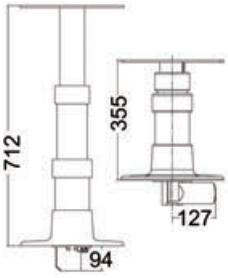
Code	Height mm	Base mm	Tube Ø mm	Table plate mm	OPTIONAL extension kit	Base mounting
48.721.08	341/714	615x300	100/88/72	610x305	**48.724.01; 48.724.02**	10 x M10 flat countersunk head screws



Giant Electric table pedestal

ELECTRIC

Made of mirror-polished anodized aluminium.
Fitted with extra-silent electric motor with compact angle gear motor under the table plate. Tri-telescopic.



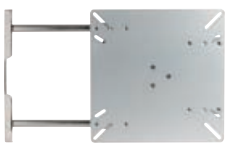
Code	V	Current draw W	Height mm	Extra-flat base Ø mm	Tube Ø mm	Table plate mm	OPTIONAL extension kit
48.720.12	12	50	355/712	305	100/88/72	305x305	**48.724.01; 48.724.02**
48.720.24	24	50	355/712	305	100/88/72	305x305	**48.724.01; 48.724.02**

Slides for tip-top tables

To apply under table plates 48.720.01 and 48.720.03 (yet ready). Anodized aluminium slides and mirror-polished AISI316 stainless steel brackets and telescopic cylinders.

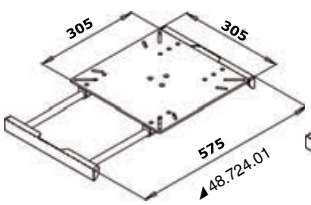
Code	Description
48.724.01	Kit for extension on 1 side
48.724.02	Kit for extension of second side*

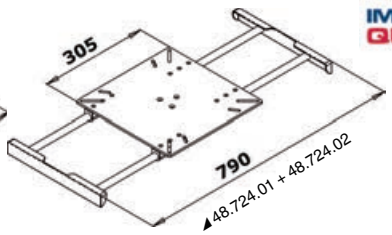
* *To be ordered in addition to 48.724.01*



◢ 48.724.01

◢ 48.724.01 + 48.724.02





IMPROVED QUALITY

Table pedestal

GAS SPRING / MOLLA A GAS

Made of **anodized aluminium**, fitted with **automatic** gas spring for upstroke. Extremely low base to provide more space to the feet.
More heights available on request (min. 10 pcs).

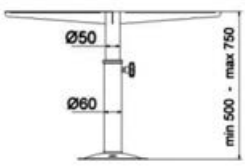
Code	Height mm	Rotation	Pedestal Ø mm	Base mm
48.652.00	470/720	360°	80/73	245x340

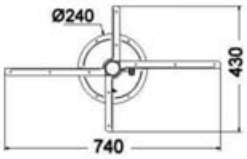
OSCULATI

Swivelling telescopic table pedestal

Made of mirror-polished stainless steel. For tables.

Code	Min. height mm	Max. height mm	Tube Ø mm	Arm length mm
48.418.02	500	720	60	740x430

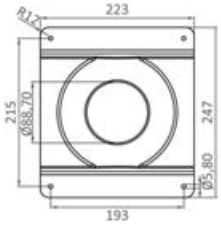


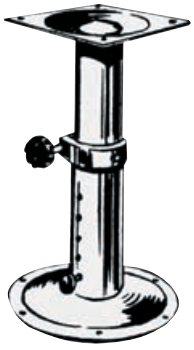


Universal telescopic swivelling pedestal

Adjustable in height, made of stainless steel. Very sturdy and functional.
Pedestal for tables and seats.

Code	Height min mm	Max height mm	Tube Ø mm	Base Ø mm
48.418.00	540	720	92	320





Stainless steel telescopic table pedestal

Made of mirror-polished AISI316 stainless steel with double extension operated by gas spring. Weight: 8 kg. **No need to bore the floor for downstroke.**

Code	Height mm	Base Ø mm	Table plate mm
48.730.01	325/720	220	200x165

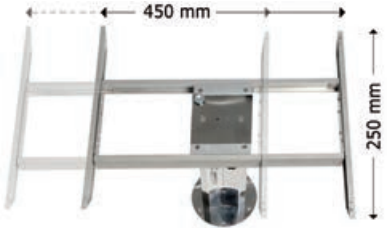
Bi-directional shifter for table pedestals

Made of anodized aluminium, to be fastened on base 48.730.01.
It allows to shift the table along two axis: 450 mm longitudinally and 250 mm crosswise.

Code	External size mm
48.730.05	680x560

48.730.06 *Plate to be fixed on pedestals 48.720.01, 48.720.03 and 48.721.02*

◢ 48.730.06



ROUND-ALU, SQUARE-ALU and SQUARE accessories for electrical table pedestals

Code	Description	For pedestals
48.749.01	(ON) - OFF - (ON) switch	**48.740.xx; 48.743.xx; 48.737.xx; 48.739.xx**
48.749.05	Receiver to use radio remote control 48.749.08	**48.740.xx**
48.749.06	Receiver to use radio remote control 48.749.08 with function to synchronize 2 pedestals of the same table	**48.739.xx**
48.749.08	4-way radio remote control to operate separate table pedestals	**48.740.xx 48.743.xx**
48.749.10	Synchronization receiver for 2 pedestal of the same table	**48.737.xx**

◢ 48.749.01

◢ 48.749.05/06/10

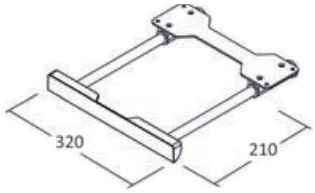
◢ 48.749.08

OSCULATI

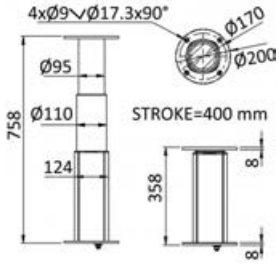
Table extension universal kit

UNIVERSAL

48.726.00 To be screwed under any folded table where the handle/support is hidden. When you need to unfold the table, slide it out and it will work as support for the tip-top table.
Stainless steel plate and slides, POM bushings for optimum and smooth sliding.



NOVAL



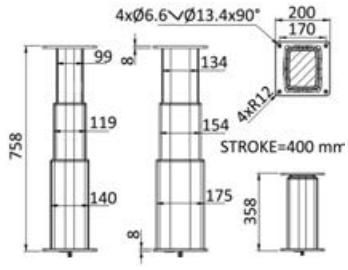
ROUND-ALU electrical table pedestal

ELECTRIC

Made of anodized aluminium with components for internal and external use.
A 6-pole switch is needed to operate the pedestals and reverse polarity.
Heights and colours on request for a minimum order quantity of 10 pieces.
It can be used in pairs by purchasing the synchronization receiver 48.749.10.

Code	V	No. of heights	Max A	Speed	Height when retracted	Height when extended	Base plate Ø mm	Table plate Ø mm	Max load kg
48.737.12	12	3	10	12 mm/sec	358	758	200	200	100

NOVAL



SQUARE-ALU electrical table pedestal

ELECTRIC

Made of anodized aluminium with components for internal and external use.
A 6-pole switch is needed to operate the pedestals and reverse polarity.
Heights and colours on request for a minimum order quantity of 10 pieces.
It can be used in pairs by purchasing the synchronization receiver 48.749.10.

Code	V	No. of heights	Max A	Speed	Height when retracted	Height when extended	Base plate mm	Table plate mm	Max load kg
48.739.12	12	3	10	18	358	758	200x200	200x200	50
48.739.24	24	3	5	18	358	758	200x200	200x200	50

NOVAL

SQUARE 2- or 3-stage electrical table pedestal

ELECTRIC

STAINLESS STEEL

Made of mirror-polished AISI 316 stainless steel.
For indoor and outdoor installation.
A 6-pole switch is needed to reverse polarity and operate the pedestals.
The 3-stage version can be used in pair using synchronization box 48.749.06.
Height can be customized for minimum orders of at least 10 pcs.

Code	V	No. of heights	Max A	Speed	Height A mm	Height B mm	Base CxD mm	Table plate ExF mm	Max load kg
48.740.12	12	2	10	12 mm/sec	404	674	250x250	188x250	100
48.740.24	24	2	5	12 mm/sec	404	674	250x250	188x250	100
48.743.12	12	3	10	15 mm/sec	313	637	355x280	355x280	100
48.743.24	24	3	5	15 mm/sec	313	637	355x280	355x280	100

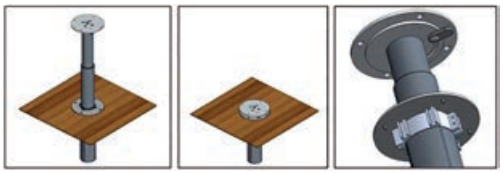
New Foldable 2-stage electrical table pedestal

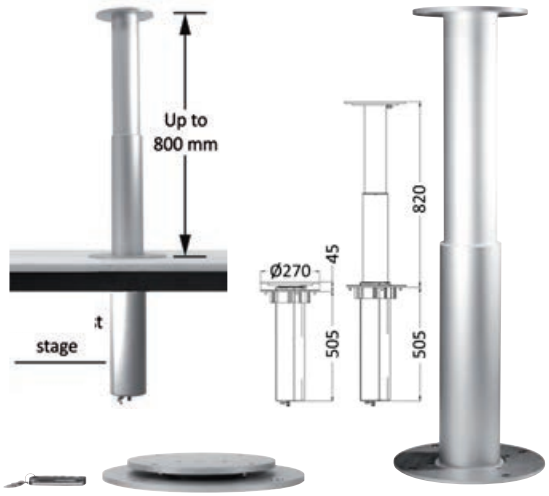
ELECTRIC

90° SWIVELING

Made of anodized aluminium with parts for indoor and outdoor installation.
To be recessed into the floor, upper plate fitted with 0/90° swivelling system of the table.
A 6-pole switch is needed to reverse polarity and operate the pedestals.
Height and colours can be customized for minimum orders of at least 10 pcs.

Code	V	No. of heights	Max A	Speed	Height when folded mm	Height when open mm	Base plate mm	Table plate mm	Max load kg
48.745.12	12	2	10	9-12 mm/sec	450	820	270	270	100
48.745.24	24	2	5	9-12 mm/sec	450	820	270	270	100



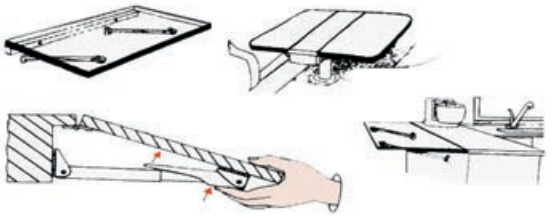


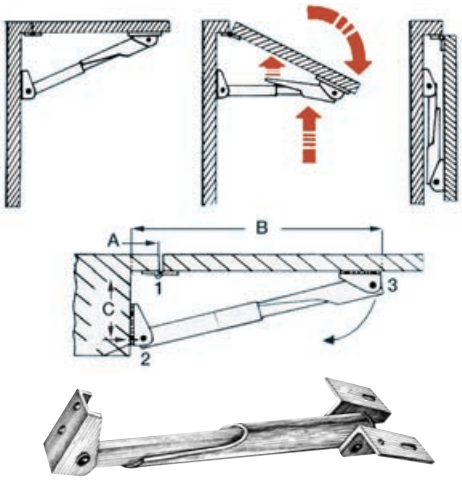
► Folding arms for tip-top tables

Rakego foldable arm for tables

Made of **anodized aluminium**, easy to use, light weight, rust-proof, easy to install and very sturdy.

Code	Ø mm	A mm	B mm	C mm	Max load	
					P1 kg	P2 kg
48.202.00	20	20/30	150	14	60	30
48.302.00	20	23/35	247	44	60	30
48.452.50	25	28/50	402	87	120	60
48.602.50	25	28/40	549	137	140	80





Folding arm for tables

AISI 316 Made of polished stainless steel.

Code	A mm	B mm	Max load kg	Type	Lock
48.615.00	300	160	150	-	Open
48.615.03	300	160	250	-	Open
48.615.01	305	165	150	-	Open/close
48.615.10	300	160	150	Soft Close*	Open
48.617.00	200	116	150	Short arm	Open

* *Soft close when the device is released*

Folding arm for tables and seats

Mirror-polished stainless steel, HEAVY DUTY model.

Code	A mm	B mm	Max load kg	Lock
48.616.00	165	320	150	Open only

They can also be used in pairs

Slip-off folding arms for tables

Made of polished stainless steel, it can be slipped off their bulkhead support.
Sold in pairs. 300-kg max allowable load per pair.

Code	A mm	B mm	Max load kg	Type	Lock
48.615.02	305	165	300 (pair)	Pair	Open/closed

Sold with bulkhead supports to pull out the arm.

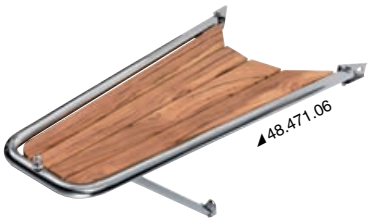
► Stern and bow gangplanks and dolphin strikers

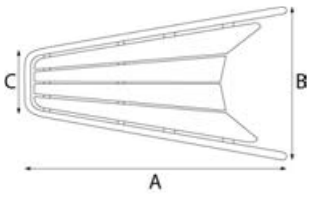
Dolphin striker

AISI 316

Made of mirror-polished AISI316 stainless steel and real teak walking surface. **Adjustable** strut.

Code	Tube Ø mm	⟷ AxBxC mm
48.471.01	32	680x395x280
48.471.05	32	750x500x330
48.471.06	40	1180x590x330



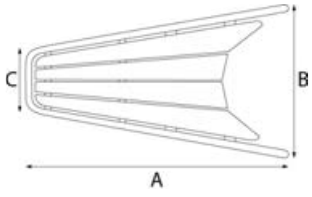


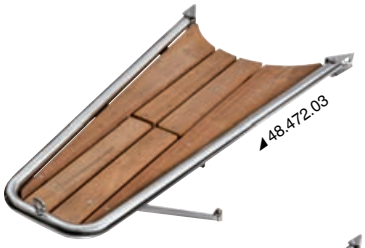
Dolphin striker with hinged bow roller for anchors

AISI 316

Made of mirror-polished AISI316 stainless steel and real teak walking surface. **Adjustable** strut.

Code	Tube Ø mm	⟷ AxBxC mm
48.471.04	32	750x500x330
48.471.08	40	1180x590x330

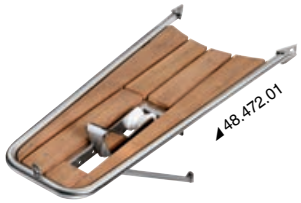


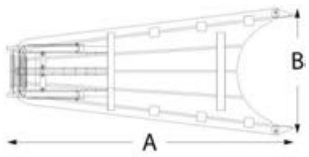


Racing Performance dolphin striker

Heavy duty version with adjustable roller housing for anchors up to 20 kg (compatible with the most common types) and adjustable joint for gennaker/Code-0.
Ready to fit a telescopic ladder in its lower part.
Made of polished AISI316 stainless steel + teak walking surface.

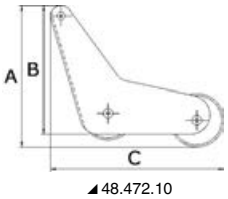
Code	A mm	B mm	Tube Ø mm	For boats m	For gennaker max m²	For Code-0 max pull kg	Anchor max kg	OPTIONAL bow roller	OPTIONAL ladder
48.472.01	1050	436 ± 50	32	7.80 / 10	80	1500	11	48.472.10	48.472.30
48.472.03	1172	533 ± 50	41.5	9.60 / 12.60	115	2500	20	48.472.10	48.472.40
48.472.05	1406	590 ± 50	41.5	10.80 / 14.10	130	2500	20	48.472.10	48.472.40

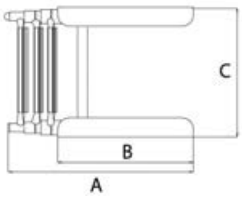


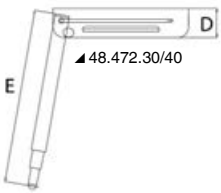


Accessories for Racing Performance dolphin striker 48.472.01/03/05

Code	Description	⟷ mm				
		A	B	C	D	E (Max length)
48.472.10	Universal hinged bow roller for 11/20 kg anchors	203.4	185	247.7	-	-
48.472.30	3-step telescopic ladder for 40.472.01	409.2	300	295	65	890
48.472.40	3-step telescopic ladder for 40.472.03/05	409.2	300	284	65	890





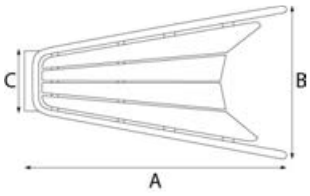


Dolphin striker with 2- and 3-step telescopic ladder

AISI 316

Made of mirror-polished AISI316 stainless steel and real teak walking surface. **Adjustable** strut.

Code	No of steps	Tube Ø mm	⟷ AxBxC mm
48.471.02	2	32	700x395x280
48.471.03	3	32	720x395x280



Fiberglass technopolymer stern platform

AISI316 stainless steel frame.
Universal version.

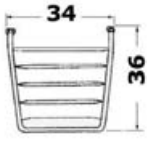
Code	Width cm	Depth cm	Tube Ø mm	Ladder
48.419.60	45	35	22	No
48.419.61	45	35	22	Yes, 3 steps, telescopic

49.540.03 *Spare ladder*

Mini platform

Suitable for **dinghies** or confined spaces. **Iroko** walking surface, fine finish.

Code	Width cm	depth cm	U fitting INCLUDED	SS tube Ø mm	Ladder
48.420.08	34	36	48.420.40	22	No
48.420.09	34	36	48.420.40	22	Yes, 2 foldable steps

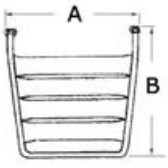


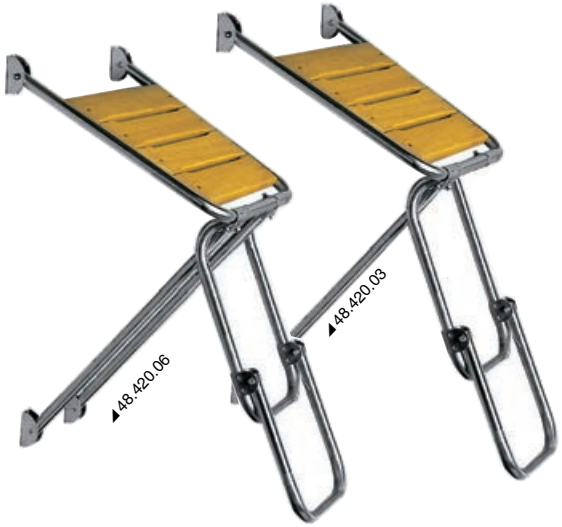
Stern platform

Made of **stainless steel**, with **Iroko** walking surface.

Code	Width A cm	Depth cm	Ladder
48.420.05	45	45	No
48.420.06	45	45	Yes, 2 foldable steps
48.420.04	58	52	No
48.420.03	58	52	Yes, 2 foldable steps

48.420.40 *4 joints INCLUDED*





TL platform

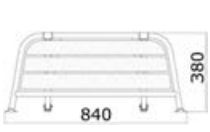
Made of mirror-polished AISI316 stainless steel with **Iroko** grating.
Fitted with lower struts.

Code	Length cm	Depth cm	Ladder	OPTIONAL Ladder
48.419.51	45	39	Without ladder	**49.543.33**
48.419.50	45	39	Yes, 3 steps, telescopic, **hidden**	**49.543.33**

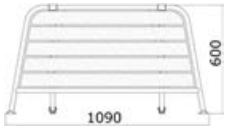
Stern gangplank for sailing boats/motorsailers

Made of mirror-polished AISI316 stainless steel with real **Iroko** walking surface.
Adjustable fixing joints.

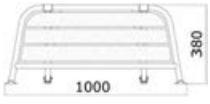
Code	Length mm	Depth mm	Tube Ø mm	OPTIONAL ladder
48.443.01	840	380	25	**49.543.03**
48.443.02	1000	380	25	**49.543.03**
48.443.03	1090	600	25	**49.543.03; 49.543.04**
48.443.04	1310	600	25	**49.543.03; 49.543.04**



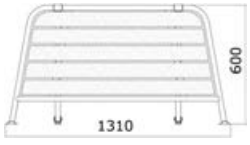
48.443.01



48.443.03



48.443.02



48.443.04

Stern gangplank

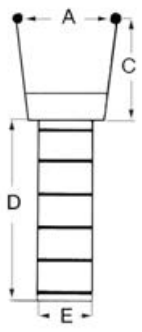
Made of 25-mm Ø polished **AISI316** stainless steel tube with articulated joints.
Iroko walking surface.

Code	Width cm	Depth cm	Struts	OPTIONAL ladder
48.420.10	130	55	2	**49.543.03/04**
48.420.11	170	55	2	**49.543.03/04**
48.420.12	200	55	3	**49.543.03/04**
48.420.13	230	55	3	**49.543.03/04**

Platform – gangplank – ladder

Made of 25-mm Ø **stainless steel** tube, fitted with **Iroko** walking surface and mounting accessories.

Code	A cm	C cm	D cm	E cm
48.410.00	65	60	115	32
48.411.00	94	68	140	40



Gangplank for round stern hulls (gozzo boats / pilot boats)

Made of mirror-polished AISI316 stainless steel with real **Iroko** walking surface.
Articulated terminal joints to adapt to any stern.

Code	⟷ RIGHT/LEFT element mm	For boats m	Tube Ø mm	OPTIONAL ladder
48.443.40	530x430x885	6.60/8.40	25	**48.575.06**
48.443.41	650x470x950	8/10.20	25	**48.575.06**

6-step foldable ladder for 48.443.40/41

Made of mirror-polished AISI316 stainless steel.

Code	Length mm	Width mm
48.575.06	1320	280

Swiveling ball joint for platforms, gangplanks, awnings, outboard engine brackets

To be fitted **outside** the tube. 3-screw mounting.
Mirror-polished AISI316 stainless steel.

Code	For tube Ø mm
48.420.25	25

T joint

Made of **stainless steel**, fitted with antifriction bushings.

Code	Ø mm
48.420.30	25
48.420.31	22

U plate

For mounting of platforms or ladders.

Code	For tube Ø mm
48.420.40	22

Bracket

Made of **stainless steel**, for mounting of ladders onto platforms.

Code	Length mm	For tube Ø mm
48.420.45	140*	22

* *For better fixing and better lever control.*

U plate

For ladder hinges.

Code	For tube Ø mm
48.420.50	22

Hinge

For ladders, made of **stainless steel**, supplied without bolts.

Code	For tube Ø mm
48.420.60	22
48.420.61	25

► A-frames and T-tops

Foldable A-frame for boats

Made of stainless steel, fitted with upper and side plates for lights and horns.
Telescopic model.

Code	Tube Ø mm	Height cm	Width at fitting point	For boats
48.197.00	40	130	125/220 cm	5/7 m

Foldable A-frame for dinghies

Made of stainless steel, very sturdy, fitted with upper and side plates for lights and horns.
Telescopic model.

Code	Tube Ø mm	Height cm	Width at fitting point	For boats
48.199.00	40	130	125/180 cm	5/7 m

Jumbo foldable A-frame

50-mm Ø stainless steel tube, fitted with upper and side plates for lights and horns.
Telescopic model.

Code	Tube Ø mm	Height cm	Width at fitting point	For boats
48.196.00	50	125	125/220 cm	up to 8 m

A-frame with folding awning

AISI 316

40-mm Ø stainless steel A-frame.
22-mm Ø stainless steel awning.
Rugged UV-resistant awning fabric (for navigation up to 35 knots with open awning).
When not in use, fold the awning against the A-frame, whose upper part can house a navigation light/horn/solar panel.

Code	Mounting width cm	Depth cm	Usable height when open cm	Colour
46.916.01	155	330	120	Blue
46.916.02	165	330	120	Blue
46.916.03	175	330	120	Blue
46.916.04	190	330	120	Blue
46.916.05	210	330	120	Blue

Seagull aluminium top

OCEANSOUTH

32-mm Ø anodized tube construction, extremely rugged.
Installation on the central or lateral steering console.
The totally adjustable fastening system allows for installation on both sides of the console and on its front; it can also be used on very small consoles.
When at rest, it can be **retracted** or **pulled out** of its brackets.

Code	Tube Ø mm	⟷ Top	
		Length mm	Width mm
48.195.20	32	135	105
48.195.21	32	150	120
48.195.22	32	150	140

Registered design in EU / Australia / New Zealand

ATLAS™ PREMIUM SPUN WOVEN POLYESTER FABRIC

Targa Top made of aluminium

OCEANSOUTH

32-mm Ø anodized tube construction.
Universal type for installation on the stringer or on the 25-mm Ø handrail.
The Top fabric is made of ATLAS waterproof and UV-resistant blue polyester.
Pivoting swing mounts for optimum angle of the four uprights.

Code	Tube Ø mm	⟷ Top			Width at base mm
		Length mm	Width mm	Height mm	
48.195.10	32	172	192	147	190-210
48.195.11	32	172	212	147	210-230

ATLAS™ PREMIUM SPUN WOVEN POLYESTER FABRIC

Aluminium T-top

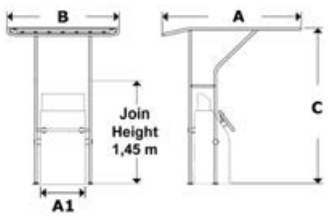
32-mm Ø anodized tube.
Universal for any type of console since the connections are adjustable.
Waterproof and UV-resistant blue ATLAS polyester fabric that can be removed for maintenance.
All stainless parts.
Max allowable speed when T-top is installed: 25 knots.

Code	Tube Ø mm	Length A mm	Width B mm	Max width of console A1 mm	Max height C mm
48.194.01	32	1700	1200	850	2050
48.194.02	32	1700	1400	1050	2050

48.194.04 *Fishing rod holder for 32-mm Ø tube*

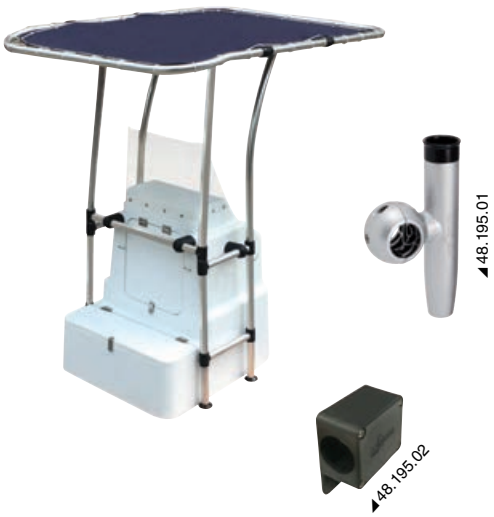
48.194.03 *Supports for navigation lights.*

◢48.194.04



◢48.194.03

ATLAS™ PREMIUM SPUN WOVEN POLYESTER FABRIC

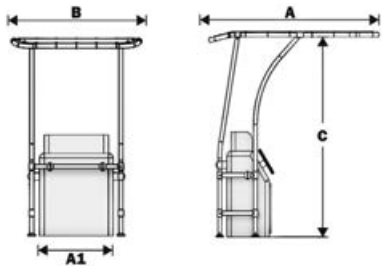


Professional aluminium T-top

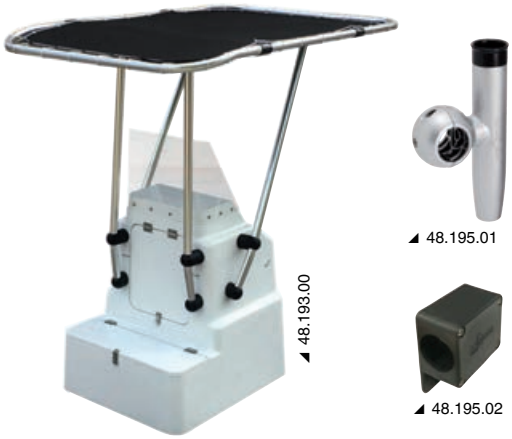
44-mm Ø tube with high-resistance resin connections and top-quality welded parts.
Universal for any type of console since the connections are adjustable.
Waterproof and UV-resistant blue ATLAS polyester fabric.
Max. allowable speed when T-top is installed: 25 knots.

Code	Tube Ø mm	Length A mm	Width B mm	Max width of console A1 mm	Max height C mm
48.195.03	44	2000	1400	1000	2000

48.195.01 *Fishing rod holder for 44-mm Ø pole.*
48.195.02 *Supports for navigation lights.*



ATLAS™ PREMIUM SPUN WOVEN POLYESTER FABRIC



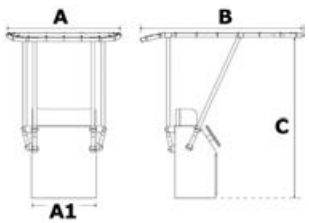
ATLAS™ GOLDEN RANGE DOPE DYED POLYESTER CANVAS

Professional aluminium T-top, Heavy Duty version

Made of 44-mm Ø tube with high-resistance resin connections and top-quality welded parts.
Universal for any type of console since the connections are adjustable.
The T-Top fabric is made of waterproof and UV-resistant blue Atlas polyester.
Max. allowable speed when T-Top is on: 25 knots.

Code	Tube Ø mm	A mm	B mm	Max width of dashboard A1 mm	Max height C mm
48.193.00	44	1400	2000	950	2000

48.195.01 *Rod holder for 44-mm Ø pipe.*
48.195.02 *Navigation light support.*



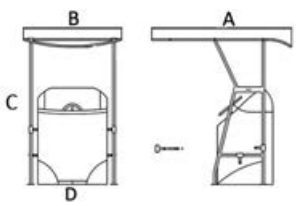
Fishing rod holder for 48.195.51

Stainless steel T-top

35-mm Ø polished AISI316 stainless steel tube (the cover has 28-mm Ø).
Universal model: adjustable width (max. 140 cm) and height (max. 210 cm).
Waterproof and UV-resistant blue fabric that can be removed for maintenance.
Pull out from the tubes to disassemble the T-top.

Code	Tube Ø mm	Length A mm	Width B mm	Adjustable width D mm		Max height C mm	kg
				min.	max.		
48.195.50	35	2400	1640	500	1400	2100	36
48.195.51*	35	2400	1640	500	1400	2100	39

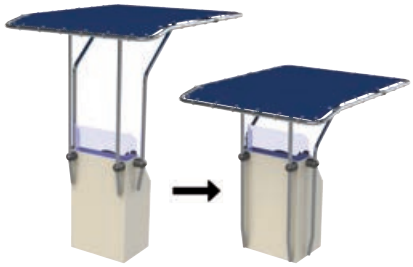
* *Fitted with 4 fishing rod holders*

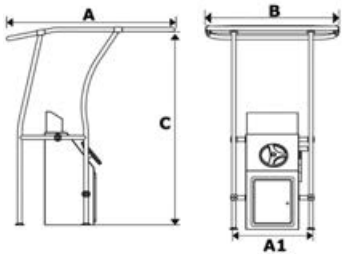


Retractable aluminium T-Top

Designed for laying up and transport on boat trailer.
Universal for any type of steering console since the fittings can be adjusted.
Blue water- and UV-resistant ATLAS polyester fabric that can be disassembled for service.
All stainless parts. Max. allowable speed when T-TOP is on: 25 knots.

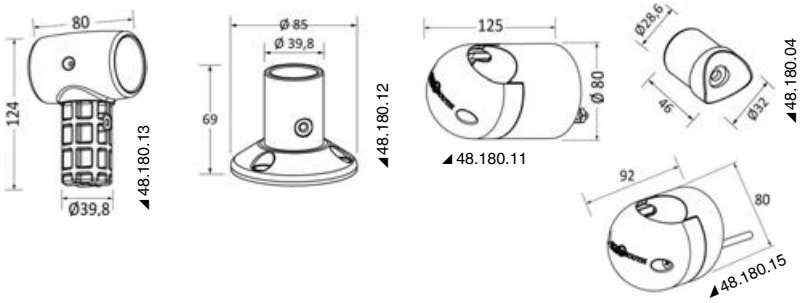
Code	Tube Ø mm	Length A mm	Width B mm	Console A1 max width mm	Max height C mm	Retractable height mm	Colour
48.192.01	32	1350	1050	700	2000	1400	Blue
48.192.02	32	1700	1200	850	2000	1400	Blue
48.192.03	32	1700	1400	1050	2000	1400	Blue





Accessories for T-Top manufacturing

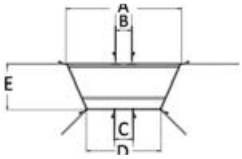
Description	32-mm Ø hose	44-mm Ø hose
Side fitting	**48.180.01**	**48.180.11**
Base	**48.180.02**	**48.180.12**
"T"	**48.180.03**	**48.180.13**
Pair of radial inserts	**48.180.04**	-
Blind base	-	**48.180.15**



Universal clear spray hood for T-Tops

Excellent weather-resistant properties. Easy and safe fastening with polyester tapes and buckles. Unobstructed front and side view. Reinforcements in the upper and lower part.
Easy to disassemble when not in use.

Code	A mm	B mm	C mm	D mm	E mm	For console max width mm
48.190.02	2630	370	420	1700	1050	700
48.190.03	3030	570	1020	2100	1050	over 700



Full cover for steering console with T-Top

Easy to position, it has to be fastened under the T-Top.
It covers both the steering console and the helm seat. Nylon zip closure, elastic tapes around, above and under the seat for tight fit. 260 gr/m^2 UV-resistant polyester fabric.

Code	Length mm	Width mm	Height mm	Colour
48.189.02	1200	1500	1800	Grey
48.189.03	1200	1830	1800	Grey

► Wakeboard Tower and accessories

Monster Tower
WAKEBOARD TOWERS & ACCESSORIES

Watersport tower made of MTE aluminium

For boats 1.52- to 2.60-m wide. Natural anodized aluminium 64-mm Ø tubes.

Code	Model	Colour	Original code	OPTIONAL bimini
48.414.01	MTE	Anodized aluminium	SOT301	**48.414.11**

48.411.01

MTK aluminium watersport tower

For boats longer than 4.80 m and 1.52/2.60-m wide.
It is fitted with 360° navigation light (2NM/ COLREG 72).
Quick coupling for folding. 64-mm Ø tubes.
5-year warranty. Ready to fit several accessories.

Code	Model	Colour	Original code	bimini OPTIONAL
48.411.01	MTK	Anodized aluminium	SOT405	**48.411.11**
48.411.02	MTK	Black	SOT407	**48.411.11**

48.411.02

Bimini top for Monster Tower

Installation in a matter of seconds on the Tower top.
Folding model, it doesn't take space on the accessories installed.
UV-resistant black Sunbrella® fabric (10-year warranty on the fabric) and anodized aluminium tubes with black accessories.

Code	Description	Colour	⟷ cm
48.414.11	Bimini for MTE	Black	163x163
48.412.11	Bimini for MT1	Black	165x157
48.411.11	Bimini for MTK	Black	183x183

Brackets for wakeboard and water skis

Fitted with a quick coupling system, no tools needed.
These brackets can adapt to any tower (for tubes having a different diameter than 64 mm, please order collar kit 48.415.90).
Aluminium arms and 303 stainless steel brackets.
Rubber protections for the board and the boat.
UV-resistant elastic bands to fasten the boards.

Code	Description	Colour	Original code
48.415.31	Bracket for wakeboards with 2 forks for 38 mm	Aluminium	WBRBA-2.5
48.415.32	Bracket for wakeboards with 2 forks for 38 mm	Black	WBRBA-BK-2.5
48.415.13	Bracket for 2 wakeboards and/or 1 wakeboard + 1 surfboard, with 1 fork for 38 mm and 1 for 70 mm	Aluminium	SWR-2.5
48.415.25	Bracket for 1 Combo ski or 2 Slalom skis with forks for 38 mm	Aluminium	WSR-2.5

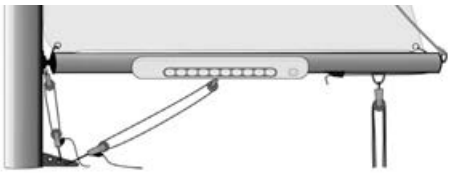
48.415.90 *OPTIONAL Adapter for 41- to 63-mm Ø tubes.*

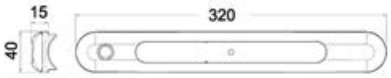
Watertight LED surface light

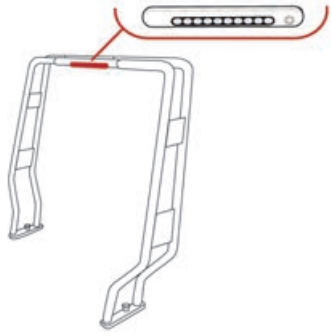
IP66

High-efficiency SMD-HD LED light source.
Radial base version with soft silicon seal, **ideal for booms, A-frames, dinghies,** etc.

Code	Finish	LED	LED beam angle	V	W	Lux at 50 cm	Lumen	K	Switch	⟷ mm
13.192.20	White	10 SMD-HD	50°	12	3	342	450	4000	Yes	320x40x15







Loud speakers for Wake Tower

Anodized aluminium frame, braket for 64-mm tubes, 82-db power, 25-22kHz range.
Golden contacts for the best sound ever.

Code	Description	Colour	W
48.417.01	Pair of Polk loud speakers	Chromed	60 RMS ISO PEAK
48.417.02	Pair of Polk loud speakers	Black	60 RMS ISO PEAK

Rear-view mirror for Wake Tower

64.497.00 Large mirror for a perfect view of the skier (18x36 cm).
Aluminium bracket, quick release (no tools needed).
Mounting on all 41- to 64-mm Ø tubes.

► MAGMA barbecues and accessories

MAGMA charcoal barbecue

Made of polished stainless steel.
All parts are hinged to keep them from falling into the sea.
The lid can be rotated to act as a windscreen.

Code	Model	outer Ø mm
48.511.02	Charcoal	381

MAGMA gas barbecue

Fitted with pressure regulator for CAMPING GAZ aluminium canisters (CV270/470).
Made of polished stainless steel, fitted with stainless steel radiant plate.
All parts are hinged to keep them from falling into the sea.
The lid can be rotated to act as a windscreen.

Code	Model	Outer Ø mm
48.511.01	Gas	381

MAGMA Marine Kettle gas barbecue/burner

Made of polished stainless steel.
All parts are hinged to prevent them from falling into the sea.
The cover can be rotated to act as a windscreen.
Fitted with pressure regulator for CAMPING GAZ aluminium canisters (CV270/470).

Code	Model	Outer Ø mm
48.511.03	Gas barbecue/burner, piezoelectric starting, for CAMPING GAZ canisters	381

MAGMA Adventurer gas grill

48.511.14 100% polished stainless steel. Grilling area: 46x23 cm.
Fitted with foldaway legs for use on the ground in picnic areas.
Fed by Camping Gaz (CV270/470) canisters.

MAGMA Catalina Infrared barbecue with infrared grilling technology

Polished stainless steel. Designed to use Camping Gaz canisters.
Fitted with folding supports for use on the ground in picnic areas.
Anti-flame and anti-burst screens integrated in the grilling system for even heat distribution.
Electronic ignition. Pressure regulator for CAMPING GAZ alluminium canisters (CV270/470).
Piezoelectric ignition + thermometer.

Code	Double cooking grill	
	primary cm	secondary cm
48.511.06	30x46	14x46

◢ 48.512.01/04

◢ 48.512.02

◢ 48.512.03

◢ 48.512.05

◢ 48.512.06

MAGMA barbecue mounts 48.511.01/02/03

Code	Description
48.512.01	Barbecue mount for 22/25-mm Ø **pulpit** tube
48.512.04	Barbecue mount for 28/32-mm Ø **pulpit** tube
48.512.02	Barbecue mount for the **stringer**
48.512.03	Barbecue mount for 30/48-mm Ø **fishing rod holder**
48.512.05	3-leg stand to use the barbecue on the **floor**
48.512.06	Barbecue mount for flush mounting onto the stringer

MAGMA barbecue cover - round version

Made of sunbrella cordura, it protects the barbecue while in place or stowed.

Code	Colour
48.512.13	Royal Blue

Removable anti-stick griddles made of Teflon coated stainless steel

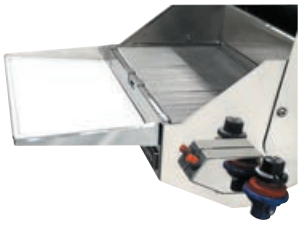
Ideal to cook fish, vegetables, sauces, etc. Smooth on one side and corrugated on the other.

Code	Description	
48.512.07	Round version for BBQ	**48.511.01; 48.511.02; 48.511.03**

Removable serving shelf for barbecue

Made of stainless steel with HD polyethylene top.
It hooks to the barbecue and works both as a worktop and serving tray (when unhooked).

Code	⟷ mm	For BBQ
48.512.15	440x190	**48.511.14; 48.511.06**



FDA plastic (HD polyethylene) worktop

Ideal to cut fish or meat, made with odourless, shatter-proof and UV-resistant material, it does not absorb food odours. Fitted with **pull-out bayonet stainless steel** hinges, designed for mounting on the stringer in a matter of seconds. It comes with kitchen utensil holder.

Code	⟷ mm
48.515.00	510x410

FDA plastic (HD polyethylene) worktop, Heavy Duty

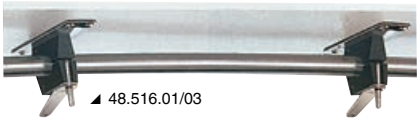
Ideal to cut fish or meat. Heavy-duty model fitted with drain and kitchen utensil holder.
Made with odourless, shatter-proof and UV-resistant material, it does not absorb food odours.

Code	⟷ mm
48.516.00	320x790

MAGMA fastening system for grills and worktops

Code	Description	Grill	For worktops
48.516.01	Mounting on 22/25-mm Ø tubes	**48.511.06/14**	**48.515.00; 48.516.00**
48.516.03	Mounting on 28/32-mm Ø tubes	**48.511.06/14**	**48.515.00; 48.516.00**
48.516.04	Mounting on pull-out (double) worktop	**48.511.06/14**	**48.515.00; 48.516.00**
48.516.05	Mounting on the fishing rod holder (single)	**48.511.06/14**	**48.515.00; 48.516.00**

◢ 48.516.04



◢ 48.516.01/03

◢ 48.516.05

MAGMA case

48.512.12 Made of padded sunbrella cordura, designed for storing MAGMA round grills and their accessories.

MAGMA spare parts/accessories

Code	Description
48.512.80	Regulator and valve (10-267-type2) for CAMPING GAZ Cv270/470 canisters
48.512.81	Collar (10-268) for CAMPING GAZ Cv270/470 canisters

◢ 48.512.80

◢ 48.512.81

► Cockpit tables and chairs

OSCULATI

48.354.02

48.354.04

48.354.06

High-quality tip-top table

25-mm Ø anodized aluminium frame, white VERZALIT table top with decoration, 16-mm thickness.

Code	Table top shape	⟷ table top cm	Height cm	kg
48.354.02	Rectangular	80x40	61	5.3
48.354.04	Rectangular	88x60	61	7
48.354.06	Rectangular	110x60	70	7.5
48.354.07	Rectangular	130x73	72	11.8
48.354.10	Ovale	95x66	70	8.9
48.354.12	Round	60	40	5.3
48.354.14	Rectangular	60x40	51	6.8

48.354.10

48.354.07

48.354.12

48.354.14

Anodized aluminium folding chair

25-mm Ø anodized aluminium frame. 600D polyester seat.
Stainless steel bolts and screws, polyurethane coated wooden armrests.

Code	Model	Fabric colour	⟷ cm	
			open	closed
48.353.01	Beach	Navy blue	62x57x83 h	89x56x13 h
48.353.05	Deck	Navy blue	58x71x90 h	89x56x13 h

48.353.05

48.353.01

Anodized aluminium folding padded chair

25-mm Ø anodized aluminium frame. 6000D polyester padded seat.
Stainless steel bolts and screws. Painted wooden armrests.

Code	Model	Fabric colour	⟷ cm	
			open	closed
48.352.91	Super-deck	Navy blue	60x43x90 h	90x55x10 h

Anodized aluminium Director's folding chair

25-mm Ø anodized aluminium frame, sturdy 600D polyester seat.

Code	Model	Fabric colour	⟷ cm	
			Open	Folded
48.352.90	Director's chair	Blue	60x48x79H	17x48x79H

Anodized aluminium Director's folding chair

25-mm Ø anodized aluminium frame.
Polished aluminium cast joints.
Polyurethane-coated wooden armrests.

Code	Model	Fabric colour	Seat fabric	⟷ cm		Max load
				open	closed	
48.353.17	Director	White	High-resistance vynil	54x50x87 h	73x55x10 h	120 kg
48.353.18	Director	Navy blue	High-resistance vynil	54x50x87 h	72x52x14 h	120 kg

◢48.353.18 ◢48.353.17

Anodized aluminium Captain's chair

25-mm Ø anodized aluminium frame.
White leather fabric cushions, backrest and armrests padded with soft **polyurethane foam**.
Folding for easy stowage.

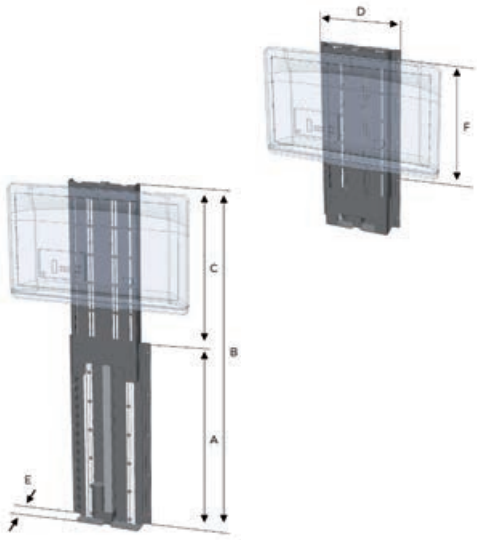
Code	Colour	⟷ cm	
		open	closed
48.340.00	White	66x76x58 h	65x80x30 h

► TV lifts

UP-DOWN TV-LIFT

Vertical electrical lift for TV set.
Compatible with VESA 75/100 /200 fastening systems.
Black coated or anodized elements.
22- to 25-mm/s approx. speed depending on the TV set weight.
A 6-pole switch is needed to reverse polarity (14.192.03 or 48.749.01).

Code	V	Inner height A mm	Outer height B mm	Stroke C mm	Width D mm	Thickness E mm	TV set max height F mm
48.760.12	12	650	1165	515	300	58	500
48.761.12	12	700	1265	565	300	58	550
48.761.24	24	700	1265	565	300	58	550
48.762.12	12	750	1365	615	300	58	600
48.762.24	24	750	1365	615	300	58	600



► Kitchenware

Blue Ocean kitchenware

ANTI-SLIP

Plastic kitchenware featuring what follows:
1) Anti-slip integrated bottom to ensure stability and dramatically reduce falls and moves.
2) Heat-, cold- and humidity-resistant, dishwasher- and freezer-safe.
3) Optimum impact resistance and easy to clean.
The kitchenware is made of high-quality food melamine; cups are made of reslyn, a 100% BPA-free thermoplastic material with excellent insulating properties and standing temperatures up to 95°; glasses are made of very bright clear SAN.

Code	Description
48.431.50	All-inclusive set: 6 x plates / soup plates/ dessert plates, 6 x 30-cl glasses, 6 x cups, 1 vassoio

Ancor Line kitchenware

ANTI-SLIP

Plastic kitchenware with the following characteristics:
1) Anti-slip silicon bottom for better stability and to prevent falling and movements.
2) Heat, cold and humidity resistance for cleaning in the dishwasher and storage in the freezer.
3) Excellent resistance to impacts and very easy to clean.
This kitchenware is made of high-quality food-grade melamine.
The set (salad bowl and tray excluded) comes in an elegant display/gift box.

Code	Description	Anti-slip bottom
48.444.01	Set of 6 x plates 25-cm Ø	Yes
48.444.02	Set of 6 x soup plates 22.5-cm Ø	Yes
48.444.03	Set of 6 x dessert plates 20-cm Ø	Yes
48.444.04	Set of 6 x mugs	Yes
48.444.06	Set of 6 x breakfast/fruit/ice cream bowls 15-cm Ø	Yes
48.444.07	Salad bowl 25-cm Ø	Yes
48.444.08	Tray 40x24 cm	No

◢48.444.12

◢48.444.13

Ancor Line unbreakable glasses

Made of very bright clear Tritan.
Sold in an elegant display/gift box.

Code	Description
48.444.12	Set of 4 x 360-ml water glasses
48.444.13	Set of 4 x 200-ml wine glasses

◢48.444.12

◢48.444.13

Ancor Line stainless steel cutlery

High-quality stainless steel cutlery with laser-engraved Ancor logo.

Code	Description
48.444.20	24 pcs set (6 coffee spoons + 6 knives + 6 forks + 6 spoons)

Scoot gard special synthetic anti-skid tablecoth

It prevents plates and cutlery from falling due to rolling or pitching.
The material has a natural cotton look and brings a homely feeling to the table.

Description	Blue	Sand
American set (4 mats + 4 coasters)	**48.460.03**	**48.460.01**
Tablecloth to be cut to size 30x366 cm	**48.461.03**	**48.461.01**

Dish Cleaner washing up detergent

Low-foam washing up detergent.
Perfect degreasing power, **even** when using **salt water**, it rinses easily. Foam dissipates quickly, avoiding discharging suds into the sea.

Code	Package
48.433.05	0.5 l (bottle with dispenser)

YACHTICON Sea Wash

Special concentrated cleaning liquid for dish washing. **It can also be used with salt water** for a considerable saving of fresh water.

Code	Package
32.955.00	250 ml

Detergent for grills and hobs

Detergent and degreaser for grills and hobs.
Effective also on induction/electrical glass-ceramic hobs. It removes grease, oil and residues very quickly.

Code	Package
48.433.75	750 ml

MAGMA Popote nestable cookware

Made of mirror-polished AISI316 stainless steel.
For use also on induction burners.
Fitted with removable snap handles.

Code	Ø cm	Stacked set height cm	Description	It includes	OPTIONAL
48.700.01	25	18.5	SS inside	4 saucepans, 1 pan, 2 covers, 2 snap handles	**48.700.04** colander
48.700.02	25	18.5	Antistick ceramic internal coating	4 saucepans, 1 pan, 2 covers, 2 snap handles	**48.700.04** colander

◢ 48.700.04

► Glass and can holders

Plastic universal glass holder for snap-in mounting on pulpits and handrails

Code	Version	For tube Ø mm	Kit includes
48.430.08	Universal	25/30	3 pcs

Glass and can holder

Made of **PVC with suction pad** to prevent overturning.

Code	inner Ø mm	ORDER BY BOX
48.270.10	65	4

Price for 4-pcs set

Glass and can holders

Made of **soft white PVC**, universal size.

Code	Height mm	Ø mm	Mounting base mm	Mounting
48.430.07	100	72	108 x 75	bulkhead

Thermal anti-slip can and glass holder

Made of soft colored **foam**.

Code	Inner Ø mm
48.374.55	63

Cardan glass holder

Made of stainless steel, for bulkhead mounting with pull-out bayonet plate.

Code	Inner Ø mm
48.110.10	76

Foldable plastic glass holder

Adjustable frame, bulkhead mounting.
For different diameters.

Code	⟷ mm
48.430.05	100x95

Foldable glass and can holders

Made of **polished stainless steel**. Adjustable nylon structure to house various glass sizes.
Soft plastic foam base.For bulkhead mounting.

Code	⟷ mm
48.430.06	107x91x14

Adjustable and folding glass and can holder

100% mirror-polished stainless steel. Finger brackets coated with anti-slip rubber.

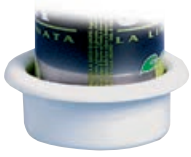
Code	Adjustable Ø mm
48.430.04	50 to 79

Anti-vibrating glass holder

Made of **black rubber**, for holding cans or glasses.

Code	Recess Ø mm	Outer Ø mm	Depth mm
48.430.10	75	100	55

Recess fit glass holder



Made of **white ABS**. For holding glasses, cans, bottles or mugs with handle.

Code	Recess Ø mm	Outer Ø mm	Depth mm
48.430.02	75	95	35
48.430.03	90	110	35

Recess fit glass holder

Made of ABS.

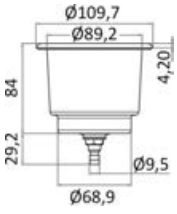
Code	Colour	Recess Ø mm	Outer Ø mm	Depth mm
48.430.12	Black	75	86	75
48.430.13	White	75	86	75

OSCULATI

Glass and can holder

Made of moulded polished **stainless steel**, designed for mounting on the control panel or on the driving console.

Code	Inner Ø mm	Outer Ø mm	Depth mm	Recess Ø mm
48.430.00	68	88	42	75



Deluxe stainless steel glass holder

Dual diametre to house bottles and cans. Drain hole with hose adaptor (option).
Soft PVC base, mirror-polished edge.
Self-adhesive seal for fast mounting and to avoid silicone sealing.

Code	Type
48.430.01	Standard
48.430.11	12V blue LED internal lighting along the perimeter

Inox Delux Slim steel glass/can holder

Designed to hold bottles and cans: drain hole with hose connector as an option.
Soft PVC with logo at the bottom.

Code	Outside Ø mm	Depth mm	Recess Ø mm
48.430.20	87	73	73

Glass holders

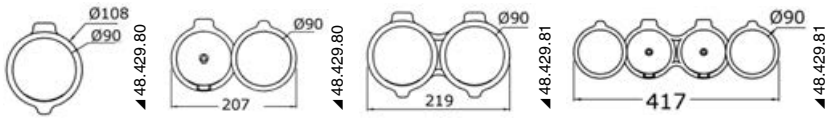
AISI 316 Made of mirror-polished AISI316 stainless steel.

Code	No of glasses	Size mm	Height mm	Glass max Ø mm	Mounting
48.429.01	1	106x106	76	90	studs
48.429.11	1	106x106	76	70	screws
48.429.02	2	216x106	76	90	studs
48.429.22	2	216x106	76	70	screws
48.429.03	3	311x106	76	90	studs
48.429.33	3	311x106	76	70	screws
48.429.10	1	106x106	76	90	screws
48.429.04	3	170x170	76	90	studs

Swing-Out glass holder - cup holder - can holder

Made of UV-resistant plastic. It can be opened to take a smaller space.
Bulkhead or flat mounting with screws or suction cups (included).

Code	Version	Colour
48.429.80	1 / 2 cups/cans	☐ White
48.429.81	2 / 4 cups/cans	☐ White



Glass holder with suction cup

Suction cup base and glass holder. For bulkhead and flat mounting.

Code	Inner Ø mm	⟷ base mm
48.430.14	70	67x70

White plastic object holder compartment

Fitted with **suction pads** for easy installation.

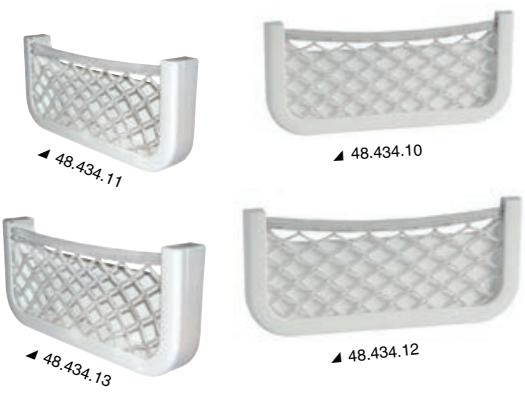
Code	Description	Fitted with	⟷ mm
48.438.51	COCKPIT CADDY - ideal for fishermen and personal objects	3 suction pads	235x120x100 H
48.438.52	GPS/CELL - ideal for GPS or cell phones	2 suction pads	157x74x100 H
48.438.53	CRUISER CADDY - object holder with can holder	3 suction pads	290x130x86 H
48.438.54	LURE ROCK - for fishhooks, baits, knives (31 compartments)	1 snap suction pad	306x58.5x83.1 H

Storage pocket

White ABS body with woven nylon elastic net. **Self-adhesive** back or to be fixed with **4 screws**.

☐ White	■ Black	⟷ mm	Suitable to be fixed on hatches
48.434.10	**48.434.20**	250x115x10 (depth)	**20.291.00; 20.293.00; 20.303.00; 20.305.00; 20.305.40**
48.434.11	**48.434.21**	250x115x30 (depth)	**-**
48.434.12	**-**	360x160x12 (depth)	**20.292.00; 20.294.00; 20.299.00; 20.304.00; 20.306.00**
48.434.13	**-**	360x160x30 (depth)	**-**

OSCULATI



► Storage locker and consoles for dinghies

48.295.01

48.294.91

Storage locker

Made of **white VTR,** lid fitted with lock.

Code	Ready for		⟷ cm
	seat	cushion	
48.294.91	-	**48.300.10**	80x33x51h
48.295.01	**48.415.00**	**48.300.12**	59x43x36.7h
48.296.01	**48.415.02**	**48.300.13**	80.2x42.2x36.9h
48.296.02	**48.415.03**	**48.300.14**	90.2x42.2x36.9h

48.296.01/02

48.292.02

48.292.04

Helm seat for open boats, with foldable backrest

Made of white fibreglass and fitted with opening seat to be used as a peak. T
he foldable backrest enables to use the seat facing the bow or the stern. Stainless steel hardware.
White leather fabric upholstery.

Code	Type	Length cm		Depth cm	Seat height cm
48.292.02	Jolly 2	90	(two-seater)	48	53
48.292.04	Jolly 4	60	(single-seater)	48	53

Storage locker / seat for 2.30- to 3.30-m dinghies

When the dinghy is 75% inflated, unscrew the side knobs, extend the sides until touching the chambers and finish inflating the dinghy.

Code	Width between vertical bulkheads	Height with cushion cm	Max base width cm	⟷ cushion cm	Inside usable compartment cm
48.294.00	adjustable from 62 to 75 cm	31	45	27x62	37x16x23 h

Opening multipurpose peak

Made of white VTR, fitted with stainless steel hinges and chromed brass lever lock.
Also suitable as storeroom to be installed on the dock, in front of the boat.

Code	⟷ cm
48.297.00	140x50x55h

Steering console

Made of **white fiberglass**.
Fitted with side handrail and front opening peak.

Code	Base cm	Height cm
48.299.00	40x48	81

Steering console with wooden inserts

Made of **white fiberglass**, fitted with mahogany plywood inserts. Compatible with any wheel steering system. Fitted with **stainless steel** handrail.

Code	Base cm	Height cm
48.300.00	40x44	81 cm + 9-cm handrail

Bridge 2 steering console

Made of white fibreglass, fitted with stainless steel handrail, plexiglass windscreen, central opening peak.

Code	Type	Length cm	Depth cm	Height (without windscreen) cm
48.298.00	"Bridge 2"	73	44	104

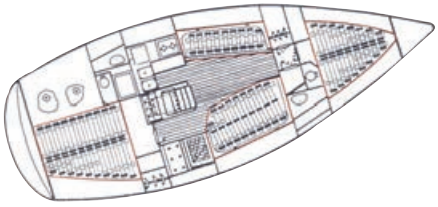
► Bed base for berths

Elastic base for beds/berths

Made of flexible wood bent slats joined together by means of special anti-slip and mouldable plastic tapes that follow the bed shape. The elastic base has 2 functions:
1) aeration of the bed to avoid mould and humidity
2) excellent comfort of the bed.
Supplied in single-bed kit (for double bed, use 2 kits).
The wooden slats can be cut according to the desired perimeter and are then assembled using the flexible tapes.

Code	Bed base made of	⟷ mm
48.790.01	16 x 100x62x8-mm staves + 2 x 2000-mm side tapes	2000x1000 (trimmable)

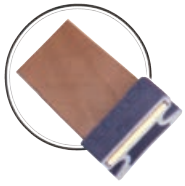
For the double bed, use 2 pcs.



BEDFLEX® elastic bed base for beds and berths

Made with beech multilayer slats with 5 (8-mm) or 6 (10-mm) unidirectional coatings for better elasticity. The slats are kept together with a synthetic rubber tape.
No humidity or mould under the bed.
Cut the slats with a hacksaw to adapt them to any shape.

Code	Description	⟷ mm	Thickness mm	No. of tapes
48.792.01	14 slats (single)	90x200	8	2
48.792.02	14 slats (double)	140x200	8	3
48.793.01	14 slats (double)	160x200	10	3
48.793.02	14 slats (double)	180x200	10	3



The widest range of ladders in Europe

AISI316 stainless steel - More than 100 models available

Types of steps

Standard steps (38 mm)

Large steps (45 mm)

Extra-large steps (57 mm)

Colors

White · Black · Wood · Grey - RAL 7046

Standard specification for the major OEM's

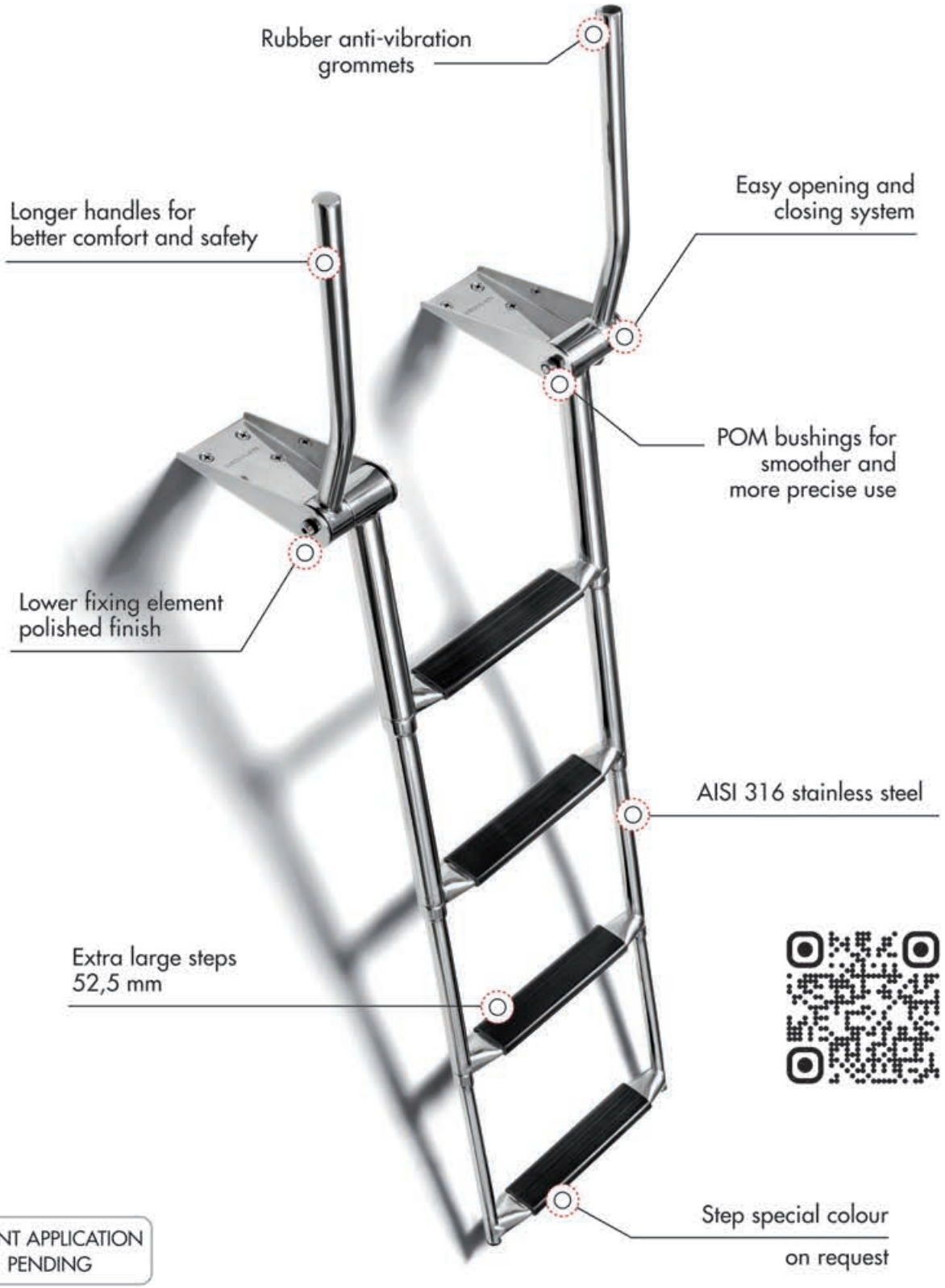
More than 20,000 ladders sold each year

Constantly evolving

Custom products

EasyUp telescopic ladder

Easy to retract. Easy to close.



PATENT APPLICATION PENDING

► Telescopic and folding ladders

Telescopic ladder for gangplank

OSCULATI

AISI 316 Made of **mirror-polished stainless steel.**

Version with steps		Ladder	Steps	Tube Ø mm	Length mm		Max width mm
white	black				Extended	Retracted	
49.541.03	**49.541.53**	Standard	3	19/25/32	889	370	300
49.541.04	**49.541.54**	Standard	4	19/25/32/38	1.156	394	315
-	**49.541.55**	Standard	5	19/25/32/38/44	1.420	450	315
49.541.22	-	Narrow	2	25/32	597	340	210
49.541.23	-	Narrow	3	19/25/32	889	368	210
49.540.03	-	Wide	3	19/25/31	889	368	392
49.540.04	-	Wide	4	19/25/32/38	1156	394	392
49.540.05	-	Wide	5	19/25/32/38/44	1400	445	392

◢ 49.541.03

◢ 49.541.04

◢ 49.541.22

◢ 49.541.23

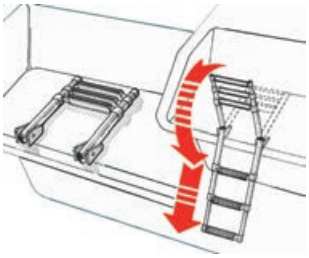
◢ 49.540.03

◢ 49.541.53

◢ 49.541.54

◢ 49.541.54

◢ 49.541.04


◢ For mounting on the gangplank

OSCULATI

◢ 49.553.03

◢ 49.553.04

Gangplank telescopic ladder with built-in handle

AISI 316 Made of **mirror-polished stainless steel.** Oval steps with white plastic footboard.

Code	Steps	Tube Ø mm	Length mm		Max width mm
			Extended	Retracted	
49.553.03	3	19/25/32	889	370	300
49.553.04	4	19/25/32/38	1.156	394	315

◢ 49.553.04

Gangplank telescopic ladders with grip handle

PATENT / BREVETTATO **AISI 316**

Equipped with **foldable handle** make climbing on board easier. Made of mirror-polished AISI 316 stainless steel with superior finish, oval steps and white plastic footboard.

Code	Steps	Pipe Ø mm	Length mm		Max width mm	Mounting
			Open	Closed		
49.551.03	3	19/25/32	889	370	330	Bathing platform/gangplank
49.551.04	4	19/25/32/38	1156	394	345	Bathing platform/gangplank
49.551.05	5	19/25/32/38/44	1400	440	430	Bathing platform/gangplank
49.551.23	3	19/25/32	889	370	240	Bathing platform/gangplank

OSCULATI

Total Black telescopic ladders for platforms black colour

AISI 316

Ladders are coated in black through a modern industrial process garanteed for 500h in saline fog conditions.

Code	Steps	Tube Ø mm	Length mm		Max width mm
			open	folded	
49.536.03	3	19/25/32	889	370	300
49.536.04	4	19/25/32/38	1.156	394	315

OSCULATI

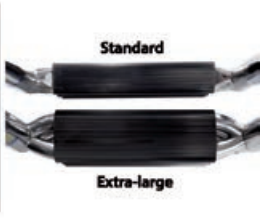
Telescopic ladder for gangplank fitted with large steps.

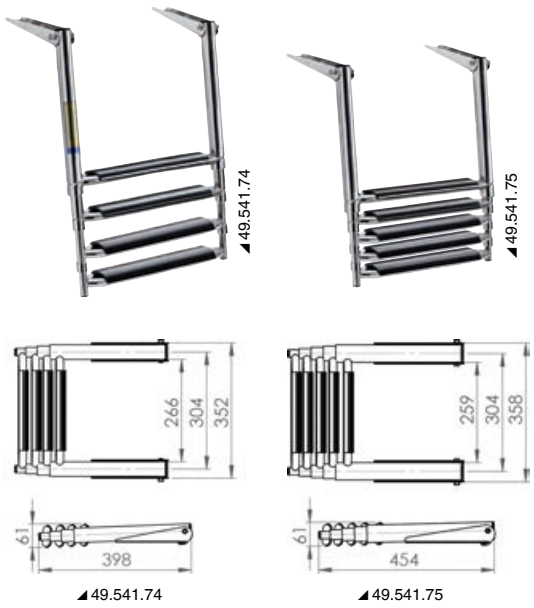
AISI 316

Mirror-polished stainless steel with **57-mm deep steps** for better comfort.

EXTRA-LARGE STEPS (57 mm)

Code	Steps		Length mm		Width mm
	No	colour	open	closed	
49.541.63	3	Black	870	370	300
49.541.64	4	Black	1150	395	315
49.541.65	5	Black	1400	440	325





◢49.541.74 ◢49.541.75

Big telescopic ladder for platform

AISI 316 | **EXTRA-LARGE STEPS (57 mm)** | **EXTRA-LARGE STRUCTURE**

Made of AISI316 stainless steel, with **57-cm wide steps** for better comfort. **305-mm tube centre distance**.

Code	Steps		Length mm		Width mm
	No.	Colour	open	folded	
49.541.74	4	Black	1140	398	352
49.541.75	5	Black	1415	454	358

OSCULATI

Telescopic ladder for platforms, with oval tubes and larger step

PATENT PENDING | **AISI 316** | **LARGE STEPS (43 mm)**

The oval tubes make the ladder more valuable. Better grip when climbing up.

Code	Steps		Length mm		Max width mm
	No	Colour	open	closed	
49.555.03	3	Grey RAL 7046	850	375	300
49.555.04	4	Grey RAL 7046	1130	406	306
49.555.05	5	Grey RAL 7046	1370	439	318

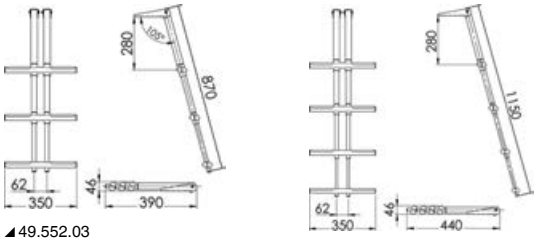
OSCULATI

DIVER telescopic ladder for gangplank

AISI 316

Made of mirror-polished stainless steel. Anti-slip steps.
Ideal for scuba diving and water sports.

Black	Steps		Hose Ø mm	Length mm		Width mm	Mounting
	No	Color		Open	Closed		
49.552.03	3	Black	19/25/32	870	390	350	Under platform
49.552.04	4	Black	19/25/32/38	1150	440	350	Under platform



◢49.552.03 ◢49.552.04

EasyUp Telescopic ladder with handles for installation above the bathing platform

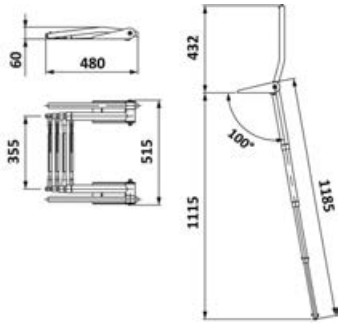
OSCULATI

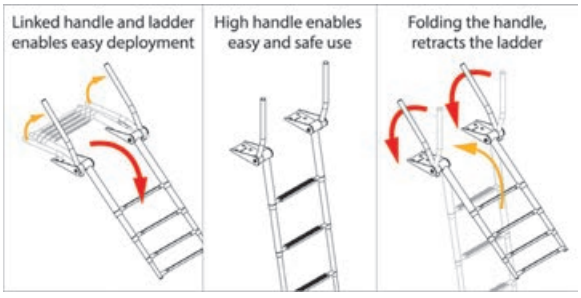
AISI 316

PATENT PENDING

The holding handle rises and lowers when the ladder is deployed.
Extra-large step (52.5 mm).
Mirror-polished AISI316 stainless steel.

Code	Steps	Tube Ø mm	Length mm		Max width mm	Height closed mm
			open	closed		
49.575.04	4	19/25/32/38	1185	480	515	60





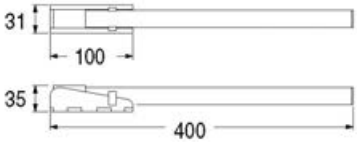
Universal foldable handle for climbing ladder of stern gangplank

Douglas Marine

AISI 316

To be fixed on the side of the ladder (right or left) for easy climbing on the gangplank.
Snap lock during either use and rest position.

Code	Base mm	Tube Ø mm
49.563.00	100x31	22



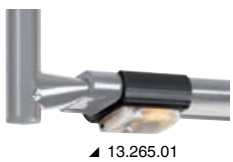
Underwater LED light for ladders

OSCULATI

PATENT

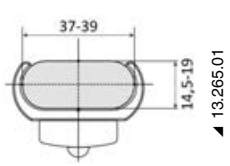
Little interlocking light for telescopic ladders.
Automatic switching when getting in touch with water.
100-h life sealed battery. Sold in 2-pc display package.
Available for both Standard step ladders (38 mm) and for Extra-large step ladders (57 mm and up).
Pressure mounting on the highest step, they take no room at all.

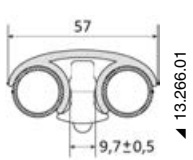
Code	Version	Light colour	Life h	Package
13.265.01	Light for Standard 38-mm step ladder	Blue	100	2 pcs
13.266.01	Light for Extra-large 57-mm double step ladder	Blue	100	2 pcs



◢ 13.265.01

◢ 13.266.01



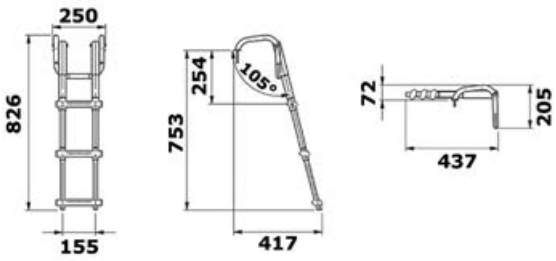


OSCULATI

Very compact telescopic ladder with handles for gangplanks

Made of mirror-polished AISI 316 stainless steel.

Code	Steps	Tube Ø mm	Lenth mm		Max length mm
			open	closed	
49.556.03	3	19/25/32	820	437	250

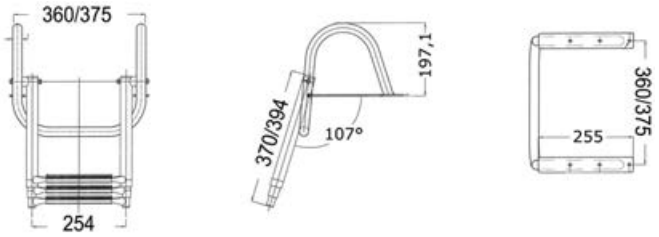


OSCULATI

Gangplank telescopic ladder with handles

Made of mirror-polished AISI 316 stainless steel with superior finish, oval steps and white plastic footboard.

Code	Steps	Pipe Ø mm	Length mm		Max length mm
			open	closed	
49.546.03	3	19/25/32	889	370	360
49.546.04	4	19/25/32/38	1156	394	375



Ladder

AISI 316

Made of mirror polished **stainless steel**, fitted with **Iroko** steps.
Very elegant and comfortable, foldable halfway, with special joint made from a stainless steel bar.

Code	Steps	Length mm	Width mm
49.566.03	3	610	247
49.566.04	4	850	247
49.566.05	5	1100	247

Quick coupling kit for stainless steel ladders

Code	Description
49.560.00	To turn ladders 49.566.03, 49.566.04, 49.566.05, 49.572.03, 49.572.04, 49.572.05, 49.582.03, 49.582.04, 49.582.05 into removable ladders. It consists of 2 plates + two brackets.Suitable for any ladder with 22-mm tube.

Foldable ladders wall-mounting

AISI 316

Made of mirror polished **stainless steel**, designed for stern mounting, fitted with oval steps; these type of steps are smoother and more comfortable than traditional rounded steps; the upper steps are coated with a anti-skid plastic material.

Code	Type of ladder	Steps	Length cm	Width cm	Centre distance cm
49.572.03	Standard	3	63	26	24
49.572.33*	Narrow	3	63	22	20
49.573.03*	Very narrow	3	63	18	16
49.572.04	Standard	4	90	26	24
49.572.05	Standard	5	115	26	24

* *Specially designed for **rubber dinghies**.*

49.572.03

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49.573.03 49.572.33 49.572.04

Foldable ladders with arch mounting arms

AISI 316

Made of mirror polished **stainless steel**, fitted with arch mounting arms, made for an easier climb; oval steps, these type of steps are smoother and more comfortable than traditional rounded steps; the upper part of the steps is coated with a anti-skid plastic material.

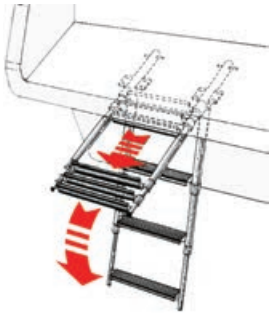
Code	No. of steps	Length mm	Width mm	Centre-to-centre mm
49.582.03	3	670	260	240
49.582.04	4	910	260	240
49.582.05	5	1150	260	240

Telescopic ladder for fixing under the gangplank

AISI 316

Made of **mirror-polished stainless steel**. Oval steps with with plastic foot board.

Code	Steps	Tube Ø mm	Length mm		Max width mm
			Extended	Retracted	
49.542.03	3	19/25/31	880	370	300



◢ For mounting under the gangplank

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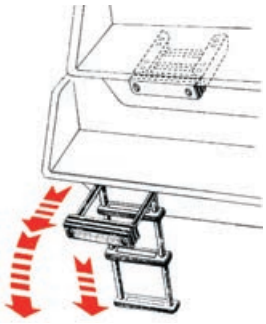
Hidden telescopic ladder

AISI 316

Made of **mirror polished stainless steel**; oval steps with white plastic coating, fitted with fall safe front lock, ladder folds away inside itself for maximum convenience

Code	Steps	pipe Ø mm	Length mm		Max width mm	Version
			Open	Closed		
49.543.03	3	19/25/32	880	373	300	standard
49.543.04	4	19/25/32/38	1155	405	300	standard
49.543.33	3	19/25/32	880	373	205	**narrow** for dinghies



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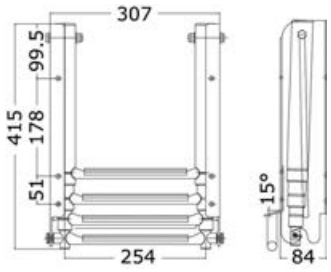
Sliding ladder to be mounted under the platform

AISI 316

Built-in lifting handle. Vibration-dumping lock.

Code	Steps		Length mm		Max width mm	Tube Ø mm
	No.	Colour	open	folded		
49.558.04	4	Black	1125	415	307	19/25/32/38



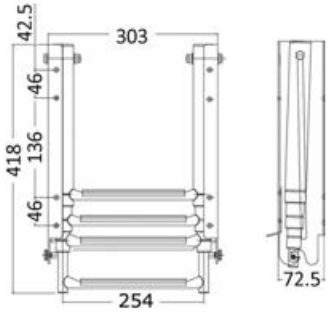
OSCULATI

Ladder with overhanging rungs, to be mounted under the platform

AISI 316

Hidden ladders with 4 rectangular black plastic rungs.
100% stainless steel.

Code	Rungs		Length mm		Max width mm	Tube Ø mm
	No.	Colour	extended	retracted		
49.560.04	4	Black	935	418	303	19/25/32/38



Big under-platform sliding ladder

AISI 316 **EXTRA-LARGE STEPS (57 mm)** **EXTRA-LARGE STRUCTURE**

Built-in climb handle and vibration-dumping locking system. Made of AISI316 stainless steel, with **57-cm wide steps** for better comfort. **305-mm tube centre distance**.

Code	Steps		Length mm		Width mm	Tube Ø mm
	No.	Colour	open	folded		
49.558.14	4	Black	1125	415	358	19/25/32/38

Hidden telescopic ladder - Standard version

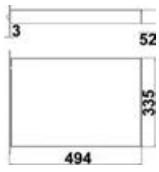
OSCULATI

AISI 316

Fitted with a telescopic ladder 3/4 steps under our product number 49.541.03/04 + box to be recessed into the bathing platform.
Made of **mirror polished stainless steel**; easy to use, fast installation.

Code	Steps	Length A mm	Front frame mm	Type
49.544.03	3	870	390x86	Snap
49.544.04	4	1168	390x86	Snap

For installation above waterline in a locker with drain. Non water tight box.



Eccentrica hidden ladder

Douglas Marine

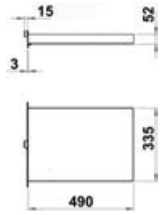
AISI 316

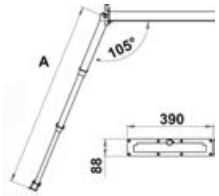
PATENTED

3- or 4-step telescopic ladder (49.541.03/04) + box to be recessed into the gangplank thickness.
Made in Italy by Douglas Marine.
High-precision slip-in/out sliding movement.

Code	Steps	Length A mm	Front plate mm	Type
49.549.03	3	854	390x88	Manual closure
49.549.04	4	1127	390x88	Manual closure

For installation above waterline in a locker with drain. Non water tight box.





◢ Reinforcement for anti-kink tube.

◢ "Full stainless" knob

New Portofino hidden ladder

AISI 316 **PATENTED** **INTEGRATED HANDLE**

4-step telescopic ladder with built-in railing for easier climbing.
Slides and guides made of AISI stainless steel, delrin bearings, improved mechanical parts.
Made in Italy by Douglas Marine.

Code	Steps	Length mm	Front plate mm
49.568.04	4	1156	55x95

For installation above waterline in a locker with drain. Non water tight box.

Montecarlo hidden telescopic ladder

AISI 316

PATENTED

EXTRA-LARGE STEPS (57 mm)

Telescopic ladder with 4 **oversized** steps code 49.541.64 + box to be slipped into the gangplank thickness.
Made in Italy by Douglas Marine.
High-precision slip-in/out sliding movement.
Made in Italy.

Code	Steps	Length mm	Front plate mm
49.554.04	4	1130	395x104

For installation above waterline in a locker with drain. Non water tight box.

Montecarlo XL hidden telescopic ladder

AISI 316 **PATENTED** **EXTRA-LARGE STEPS (57 mm)**

It consists of a 4-step Big telescopic ladder 49.541.74 + box to be integrated into the platform thickness.
Guided extension of the ladder for smoother and more precise movements.
Made in Italy by Douglas Marine.

Code	Steps	Length mm	Front panel mm
49.559.04	4	1150	449x101

To be installed above the waterline. Non watertight box.

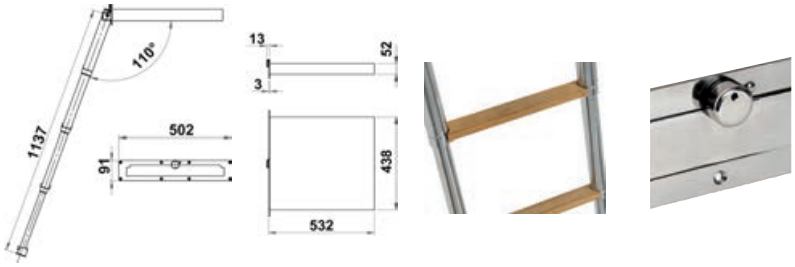
TOP LINE hidden telescopic ladder

AISI 316

4-step telescopic ladder art. 49.547.04 with teak steps + housing to be built in the gangplank thickness.
Mirror-polished stainless steel. Easy and fast mounting.

Code	Steps	Length mm	Front plate mm
49.550.04	4 Teak	1137	502X91

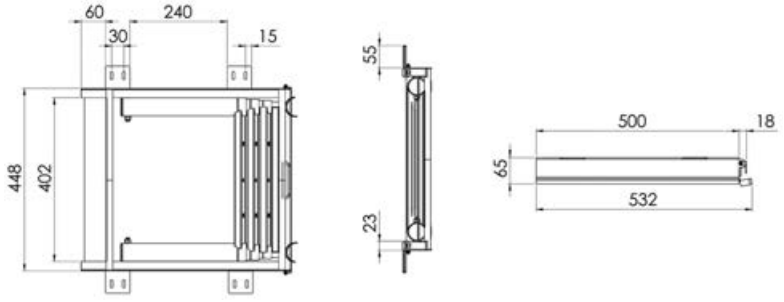
For installation above waterline in a locker with drain. Non water tight box.



Top Line ladder with slide

4-step telescopic ladder with increased section structure. Teak steps. Mounting under the gangplank. Possibility of recess mounting with installation on the bathing platform inside a locker.

Code	Steps	Pipe Ø mm
49.547.04	4	44/38/32/25



Climbing step

Made of stainless steel, 25-mm Ø tube with clinched step for easier climbing.

Code	Width mm
49.562.00	245x135 h

Climb step made of teak

Made of polished AISI 316 stainless steel, equipped with teak step.

Code	⟷ mm
49.562.01	270x130x25

Bathing folding step

Made of **stainless steel**; universal size, also suitable for climbing down into engine bays or similar.

Code	Base mm	Step mm	Size mm
49.586.00	110x45	50x85	21 (bent)

► Removable ladders

Ladder made of mahogany wood

Steps coated with anti-skid material 49.105.01; **chromed brass** hardware; includes hooks, hinges, side locks and rubber grommets; suitable for motor and sail boats.

Code	Steps	Length mm		Width mm
		opened	closed	
49.531.04	4	740	400	330
49.531.06	6	1190	630	330

Eco ladder

Anodizer aluminium tube. Technopolymer steps. Foldable arms. Floating.

Code	Steps	Arm bend Ø mm
49.529.23	3	200
49.529.24	4	200
49.529.25	5	200

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◢ Spare base

Ladder

Made with anodized mirror polished **anticorodal** tube; fitted with patented swivelling heads, foldable side rails, mounted on antiscuff plastic bushings; anti-skid **nylon** steps; light and floating, fitted with protective tubes on the side rails.

Code	Steps	arm curve Ø mm	Complete spare foot	Spare step
49.529.02	2	250	**49.529.00**	**49.529.06**
49.529.03	3	250	**49.529.00**	**49.529.06**
49.529.04	4	250	**49.529.00**	**49.529.06**
49.529.05	5	250	**49.529.00**	**49.529.06**
49.539.03	3	175	**49.529.00**	**49.529.06**
49.539.04	4	175	**49.529.00**	**49.529.06**

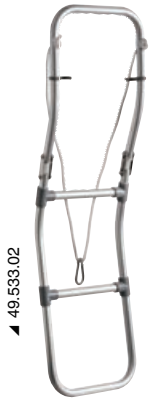
Bow telescopic ladder

Made of mirror-polished AISI 316 stainless steel.
The rotating arms hook to the pulpit.
Technical characteristics: telescopic ladder with oval steps coated with white plastic; rotating hooking arms; telescopic strut to the bow.

Code	Steps	Ladder length mm*		Max length mm
		open	closed	
49.548.04	4	1100	394	315

* *Plus 250 mm of hooking arms*

◢ 49.533.01



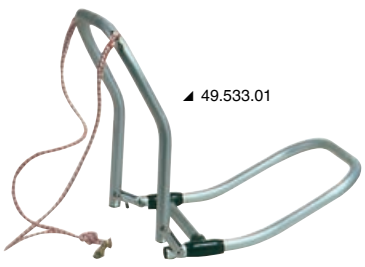
◢ 49.533.02

◢ 49.533.02

Rubber dinghy ladder

Made of **folding anodized aluminium**, lightweight and floating.
Fitted with stainless steel **snap hook** and **rope.**
For snap hook hinges please see our items 39.170.91, 39.170.92.

Code	Steps	Length mm	Width mm	Shackle INCLUDED	OPTIONAL fittings
49.533.01	2	900	250	**09.187.08**	**39.170.91; 39.170.92**
49.533.02	3	1150	250	**09.187.08**	**39.170.91; 39.170.92**



◢ 49.533.01

Folding rubber dinghy ladder

Made of mirror polished **stainless steel**, fitted with three steps; includes **nylon** straps and buckle for floor mounting, universal size.

Code	Length mm	Width mm
49.528.03	880	250

Tube quick-release ladder for dinghies

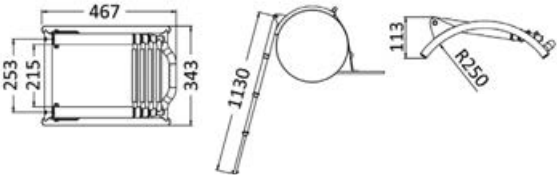
OSCULATI

AISI 316

Made of mirror-polished stainless steel. Steps with anti-slid plastic footboard.
Fastening to the pull catch by means of 2 x stainless steel plates (included) and adjustable strap with stainless steel self-locking buckle.
Fit for dinghy tubulars up to 500-mm Ø.
Fitted with climb handle.

Code	Steps	Tube Ø mm	Length when open mm	Length when folded mm	For tubular up to Ø mm
49.557.04	4	19/25/32/38	1130	467x343	500

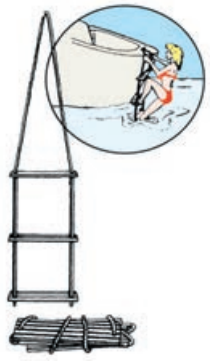
◢ Strap fastening (included)



Temporary boarding ladder

Made of blue **nylon cord**, fitted with **polycarbonate** steps.

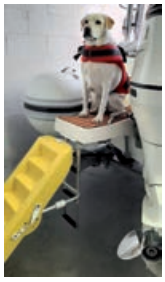
Code	Steps	Length mm	⟷ Steps mm	Rope Ø mm
49.524.03	3	940	300x110x40	12
49.524.04	4	1140	300x110x40	12
49.524.05	5	1340	300x110x40	12
49.524.10	10	3000 + rope	300x110x40	12



Ladder for dogs

Floating, lightweight, antislip. Easy to install to existing gangplanks/ladders (minimum 3 steps), it can be removed in few seconds.

Code	⟷	
	Open mm	Closed mm
49.538.00	1630x400	820x400



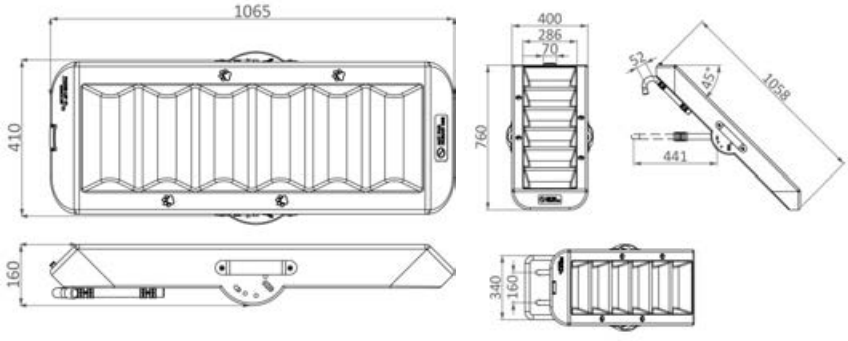
OSCULATI

Availability May 2022

New Paws Up doggy ramp

Lightweight, antiskid, easy to install on and remove from already mounted ladders (min. 3 steps, 38- to 57-mm wide) in a matter of seconds.
Telescopic tubes adjustable in 3 positions for perfect inclination.
Fitted with safety strap with hook&loop fastener.

Code	⟷ mm		
	size closed	length	width
49.538.20	410x1065x160	760	340



► Emergency ladders

OSCULATI

◢ 49.522.13

◢ 49.522.13

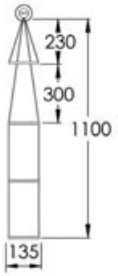
◢ 49.522.03

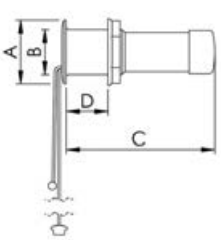
◢ 49.522.13

Recess fit 3-step emergency ladder

Watertight thermopolymer housing. Ladder with nylon braid structure and highly resistant thermopolymer steps. To be installed above the waterline. Very simple to use: in a man-overboard situation, the crew member in the water pulls the locking cap ring to let the ladder out of its housing. Sold in display package.

Code	Mounting	Steps	Length cm	⟷ cm				Spare cap (optional)
				A	B	C	D	
49.522.03	Front screws	3	110	100	58	225	-	**49.522.14**
49.522.13	Rear nut	3	110	80	58	185	52	**49.522.14**





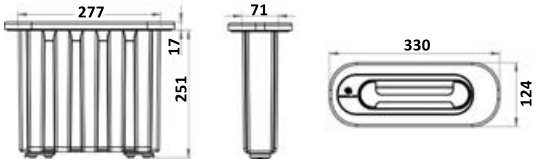
◢ Instructions

Recess fit emergency ladder suitable to comply with ISO 15085 standards

OSCULATI

Ladder to be used to climb back onboard in case of emergency.
- Watertight and reinforced ASA housing.
- Pull-out cover to open the ladder.
- Polyester tape ladder with stiff steps.
- FLUO stripe on the steps for better visibility at night.

Code	⟷ ladder mm		Colour	Steps
	length when open	step width		
49.525.00	2400	250	White	7



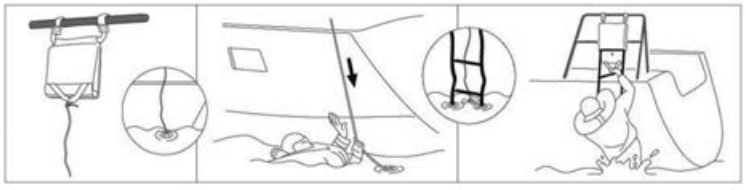
Emergency ladder in compliance with ISO 15085 standards

OSCULATI

Ladder to be used to climb back onboard in case of emergency.
Easy and fast installation to the stern pulpit.

Technical specification:
- Made of polyester tape, fiberglass inserts to reinforce the steps.
- FLUO stripe on the steps for better visibility at night.
- Case with retro-reflective stripe.
- Install the ladder to the pulpit by means of 2 black satin-finish stainless steel buckles + 2 TENAX spring buttons.
- PVC case.

Code	Case			Steps	⟷ ladder mm	
	⟷ mm	colour			length when open	width
49.522.30	280x254x60		White	11	3300	250
49.522.31	280x254x60		Black	11	3300	250



Emergency ladder

OSCULATI

To be fastened to the pushpit. In a man-overboard situation, pull the pull cord on the protective covering and unroll the ladder to climb aboard; ideal for solo sailors.

Code	Covering			Steps	⟷ ladder mm	
	⟷ mm	colour			length when open	width
49.523.03	35x23x5		White	3	940	300
49.523.04	35x23x5		White	4	1140	300
49.523.05	35x23x5		White	5	1340	300
49.523.10*	35x23x5		White	10	3000 + rope	300

* *In compliance with ISO15085*

► Anti-skid tape

Anti-skid self-adhesive tape - Usaflex - Tred

Code	Height mm	Roll m	Color
49.105.01	25	20.5	White
49.105.02	50	20.5	White
49.105.03	100	20.5	White
49.105.05	200	20.5	White
49.105.06	300	20.5	White

Anti-skid self-adhesive bench tape

The stand contains:
- **2** x 25-mm reels
- **1** x 50-mm reel
- **1** x 100-mm reel.

Code	Color
49.105.04	White

Anti-skid strips supplied in an elegant package

Code	Packing	⟷ mm
49.105.00	12 stips with rounded edges	20x300

3M

3M Safety Walk

Anti-skid adhesive tape, provides an antiskid surface on all type of boats without altering the aesthetics; clear adhesive tape for hatches, white adhesive tape for fibreglass decks.

Code	Height mm	Roll m	Color
65.312.72	50	18.3	- transparent
65.312.73	25	18.3	- transparent
65.312.75	50	18.3	white
65.312.76	25	18.3	white

► Sinks and accessories

Round sinks

Made of mirror polished **stainless steel**. Drain plug **not included**.

Code	⟷ mm		Depth mm
	inner Ø (A)	outer Ø (B)	
50.187.35	260	285	180
50.187.36	300	330	180
50.187.37	360	385	180
50.187.38	380	420	180

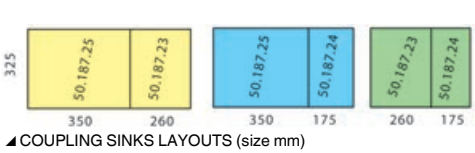
50.186.98; 50.186.99 *OPTIONAL Drain plugs*

Rectangular sinks

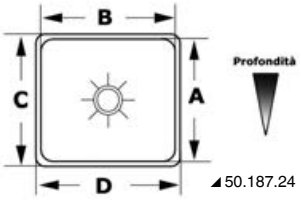
Made of brush polished **stainless steel**. Drain plug **not included**. Rectangular sinks can match.

Code	⟷ mm		Depth mm
	internal AxB mm	external with an edge CxD	
50.187.23	238x300	260x325	150
50.187.24	150x300	175x325	150
50.187.25	298x328	325x350	150
50.187.26	237x330	250x360	150
50.187.33	330x330	350x350	150

50.186.98; 50.186.99 *Drain plug OPTIONAL*



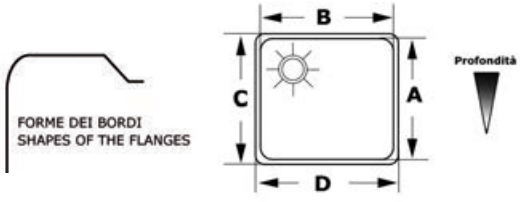
◢ COUPLING SINKS LAYOUTS (size mm)



◢ 50.187.24

◢ 50.187.26

◢ 50.187.33



◢ 50.187.23/25/26/33

Oval sink

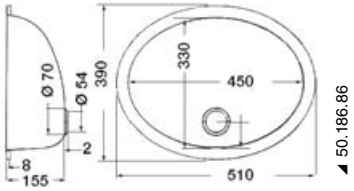
Made of mirror polished **stainless steel**.

Code	⟷ mm			Drain OPTIONAL
	external	internal	depth	
50.186.84	265x385	240x355	125	**50.186.98; 50.186.99**

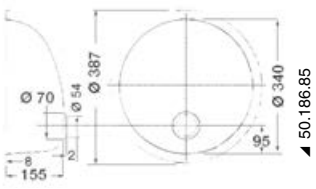
Round and oval sinks

Made of **mirror polished stainless steel**.

Code	Shape	⟷ mm	Depth mm	Drain OPTIONAL
50.186.85	circular	Ø 387	155	**50.186.98; 50.186.99**
50.186.86	oval	510x390	155	**50.186.98; 50.186.99**



◢ 50.186.86



◢ 50.186.85

◢ 50.186.85

◢ 50.186.86

Double sink

Made of **polished stainless steel**.

Code	⟷ mm		Hight mm	Drain OPTIONAL
	external	basins		
50.186.80	600x320	330x300 + 240x300	155	**50.186.98; 50.186.99**

Hemispherical bathroom sinks

Made in stainless steel mirror polished.

Code	Ø mm		Overflow	Depth mm	Drain OPTIONAL
	internal	external			
50.188.91	360	385	no	150	**50.186.98; 50.186.99**
50.188.92	260	292	no	125	**50.186.98; 50.186.99**
50.188.93	300	335	no	140	**50.186.98; 50.186.99**

Rectangular sink

Made of **stainless steel**.
Sold with 90° drain and 20-mm hose connector.

Code	Width mm	Height mm	Depth mm
50.930.00	280	380	150

Rectangular sink made of white polished plexiglas

Very fine finish.

Code	⟷ mm	Drain OPTIONAL
50.188.81	330x280x140	**50.170.41; 50.270.41**

Oval plexiglas sink

Specially suitable for bathrooms.

Code	⟷ mm	Drain OPTIONAL
50.188.94	370 x290 x150	**50.170.41; 50.270.41**

Angle sink

Made of thermoformed **white ABS**.

Code	⟷ mm	Drain OPTIONAL
50.270.47	280x270x102 (depth)	**50.170.41; 50.270.41**

Oval sinks made of white ceramic

Fitted with push/pull chromed brass drain and overflow system.

Code	Version	Cut size mm	Outer mm
50.189.01	For mounting on the top	356x292	445x380x190

Square sink with rounded edges, clear glass

Code	⟷ AxBxC mm
50.189.33	420 x 420 x h 138

50.186.97 *Chromed brass drain plug. 75-mm long with push-pull closure and 1" ¼ thread. Also used to fix the sink onto the top surface.*

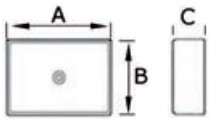
◢50.186.97
Optional

Square sink

Made of white ceramic, flat mounting. Tap not included.

Code	⟷ AxBxC mm
50.189.10	365x315x130

50.186.97 *Chromed brass drain plug. 75-mm long with push-pull closure and 1" ¼ thread. Also used to fix the sink onto the top surface.*



Hemispheric ceramic sink, for surface mounting

White	Black	Ø mm	Height mm
50.188.98	**50.188.88**	365	140
50.188.99	**-**	410	160

50.186.97 *Chromed brass drain. 75-mm long with push-pull closure and 1" ¼ thread. Also used to fix the sink onto the flat rest surface.*

◢50.186.97 Optional

◢50.188.88

◢50.188.98/99

Transparent glass hemispherical sink

Code	Ø mm	Height mm
50.189.34	280	105
50.189.36	360	130

50.186.97 *Chromed brass drain. 75-mm long with push-pull closure and 1" ¼ thread. Also used to fix the sink onto the flat rest surface.*

◢50.186.97 Optional

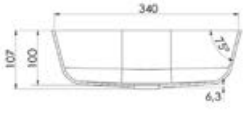
New Countertop sinks in Ocritech

Matt colour sink featuring a modern and sleek design.
Version with built-in drain plug of the same colour.
Min. 20-pcs order: Round version with pre-assembled white drain plug included.
Min. 20-pcs order: external coating in RAL colour available.

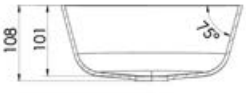
Code	Shape	Colour	Drain included	Drain optional	Dimensions mm
50.183.01	Round	White	-	**50.186.97**	Ø 300
50.184.01	Semi-oval	White	Yes	**-**	350 x 260
50.184.03	Semi-oval	White/Beige (RAL 1019)	Yes	**-**	350 x 260
50.184.21	Semi-oval	White	Yes	**-**	450 x 260

◢50.183.01

◢50.184.01/03



◢50.184.21



◢50.184.01

◢50.183.01

◢50.184.03

◢50.189.21

Stainless steel wall mounting sink

Foldable against the wall, fitted with stainless steel tap.
Very sturdy, you can lay against it without breaking it.
Fitted with soap holder.

Code	⟷ mm	Overhang	
		closed mm	open mm
50.188.70	375x320	145	345

ABS wall foldable sink

Includes foldable faucet 17.046.02.

Code	Recess mm	External mm	inside overhang mm	Open sink plane mm
50.188.68	440x390	520x460	320	380x390

OSCULATI

Fitted with 90° side drain outlet

Made of **stainless steel and moplen**; **includes** plug handle.

Code	Ø mm	Grating Ø mm
50.186.96	20	70
50.186.98	25	70

Straight drain outlet

Stainless steel and plastic, fitted with plug.

Code	Threads	Grating Ø mm
50.186.99	1"1/4	70

◢ 50.170.41

Sink drains

Made of **white nylon**, suitable for all sink models 50.270.47; 50.188.81-94; 50.930.00.

Type		Hose connector mm	Ledge Ø mm
bent 90°	straight		
50.170.41	**50.270.41**	28	50

Kit of drains with chain plug and drain pipes

Fitting for two sinks, easy installation.

Code	Drain flange Ø mm	Bore Ø mm	Pipe Ø mm	Chain length cm
50.185.40	70	60	40	35

Drain with 5° inclination horizontal outlet, plug with chain

Convenient plug with chain. Easy to install.

Code	Drain flange Ø mm	Bore Ø mm	Inclined outlet	Outlet Ø mm	Chain length cm
50.185.01	70	60	5°	25.4 (1")	35

60-mm Ø strainer drain

Small space-saving strainer drain with no-overflow pipe. Removable strainer, easy installation.

Code	Drain flange Ø mm	Bore Ø mm	Fitting	Pipe Ø mm
50.185.02	70	60	M1 1/2"	40

90-mm Ø strainer drain

Small space-saving strainer drain with no-overflow pipe. Removable strainer, easy installation.

Code	Drain flange Ø mm	Bore Ø mm	Fitting	Pipe Ø mm
50.185.03	115	90	M1 1/2"	40

Drain with chromed mushroom head plug

Drain with strainer, and 1 ¼" fitting and mushroom head plug.
Removable strainer, elegant design, easy to clean.

Code	Flange Ø mm	Bore Ø mm	Fitting
50.185.06	63	45	1 ¼"

Chromed brass drain outlet

Length 75 mm, fitted with push-pull closing system and with thread size 1" 1/4; it is also used to mount the sink onto a support base.

Code	Length mm	Thread
50.186.97	75	1" 1/4

Swivelling hose adaptor

Can be removed for cleaning, to be used together with drains on stainless steel sinks.

90°	Straight	From mm	Threads	ORDER BY BOX
-	**50.187.01**	20	1"1/4	1
50.188.02	**50.187.02**	25	1"1/4	1
50.188.03	**50.187.03**	30	1"1/4	1

► Cooktops

Portable gas hob with integrated bottle and cartridge

Stainless steel body, piezo incorporated, safety thermocouple.
Supplied in hard plastic case for carrying or onboard stocking.

Code	⟷ mm	kg	Cartridge type	Cartridge OPTIONAL
50.275.05	33x28.5x8.8	2	A4	**50.275.06**

50.275.06 *A4 cartridge, sold in 4-pc package*

◢ 50.275.06

External stainless steel hob units

Fitted with safety thermocouples.

Code	No of burners	⟷ external mm	Burner W	OPTIONAL pot holder
50.101.45	1	210x290x90h	1750	**50.100.48**
50.101.47	2	440x290x90h	1900+1000	**50.100.49**

◢ 50.100.49

◢ 50.100.48

◢ 50.101.45

◢ 50.101.47

New External stainless steel hob units

Fitted with safety thermocouples.

Code	No of burners	⟷ external mm	Burner W	OPTIONAL trivet
50.103.45	1	210x290x90h	1750	**50.100.48**
50.103.47	2	440x290x90h	1900+1000	**50.100.49**

◢ 50.100.92

◢ 50.100.91

◢ 50.103.45
◢ 50.103.47

Two burner cooker

Made of mirror polished **stainless steel**. Fitted with safety thermocouples.

Code	⟷ cm
50.281.00	50x31x10

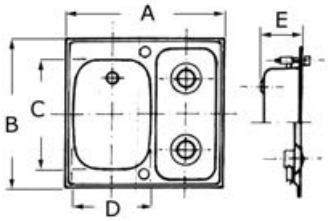
► SMEV stainless steel combined hobs and sinks

Hob units SMEV Model C

Cooktop taps, fitted with pot holder.

With sink		⟷ mm		
RIGHT	LEFT	outside AxB	sink CxD	E
50.101.74DX	**50.101.74SX**	490x460	240x340	125

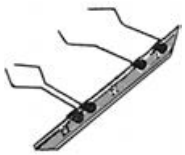
◢ Pot holder



◢ 50.101.74SX

Spare pot holders DOMETIC

Code	N° burners	For model
50.518.00	2	50.101.74
50.516.00	2	-



► Flush mount Hob Units

50.100.48

Stainless steel flush mount hob unit

Extra compact, fitted with safety thermocouples.

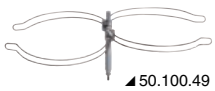
Code	No of burners	Outside mm	Overhang mm		Burner W	Pot holder
			esternal	internal		
50.101.43	1	320x285	30	80	1750	**50.100.48 OPTIONAL**
50.101.44	2	350x320	30	80	1750x2	**50.100.49 OPTIONAL**
50.101.42	2	380x360	30	80	1750x2	**50.100.49 OPTIONAL**
50.101.48	3	470x360	30	80	1000+1750+3000	**50.100.50 OPTIONAL**

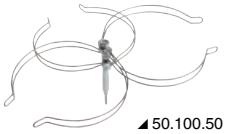
50.101.42

50.101.44

50.101.48

50.100.48


50.100.49


50.100.50

OSCULATI

New Recess-fit stainless steel cooktop

Supercompact version fitted with safety thermocouple

Code	No of burners	⟷ mm		Burner W	Pot holder
		outside	recess		
50.103.43	1	320x285	280x245	1750	**50.100.91**
50.103.44	2	350x320	280x310	1750x2	**50.100.92**
50.103.42	2	380x360	320x340	1750x2	**50.100.92**
50.103.48	3	470x360	320x430	1000+1750+3000	**50.100.93**

50.103.43

50.103.44

50.103.42

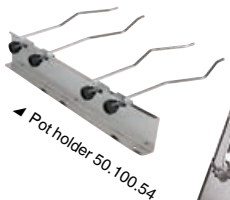
50.103.48

TECHIMPEX

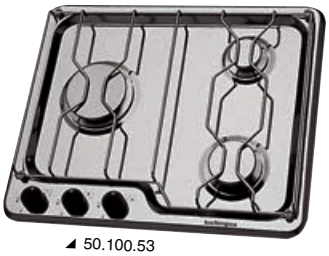
TECHIMPEX cooktop

Made of **stainless steel** fitted with **high quality burners**.
All equipped with **safety thermocouples**. Fine finish, top quality design.

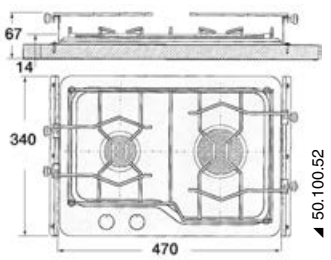
Code	N° burners	Burners W	Pot holder set + flame guard OPTIONAL
50.100.52	2	2300+1700	**50.100.54**
50.100.53	3	2300+1700+1000	**50.100.55**

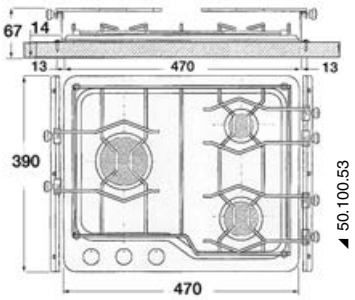

Pot holder 50.100.54

50.100.52


50.100.53

Pot holder 50.100.55





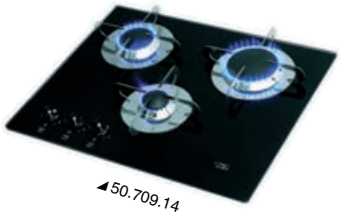
Gas hob with pyroceram burners

Fitted with thermocouple.

Code	No of burners	⟷ mm		Power W	Column pot holder OPTIONAL
		outside	recess		
50.709.11	1	320x285	300x265	1900	**50.100.48**
50.709.12	2	500x300	480x250	1750+3000	**50.100.49**
50.709.13	2	380x280	360x260	1000+1750	**50.100.49**
50.709.14	3	505x410	480x390	1000+1900+3000	**50.100.50**

◢ 50.709.11

◢ 50.709.12


◢ 50.709.14

◢ 50.709.13

◢ 50.100.48

◢ 50.100.49

◢ 50.100.50

New Gas hob with pyroceram burners

Fitted with safety thermocouple.

Code	No of burners	⟷ mm		Power W	Column pot holder OPTIONAL
		outside	recess		
50.706.11	1	325x290	270x305	1900	**50.100.91**
50.706.12	2	500x300	480x280	1750+3000	**50.100.92**
50.706.13	2	380x280	360x260	1000+1750	**50.100.92**
50.706.14	3	504x410	484x390	1000+1900+3000	**50.100.93**

◢ 50.706.11

◢ 50.706.12

◢ 50.706.14

◢ 50.706.13

◢ 50.100.91

◢ 50.100.92

◢ 50.100.93

► Electric hob units

Touch control glass ceramic hob unit

Technical characteristics:
- Eurokera high-radiance glass ceramic.
- Electronic digital touch controls.
- First burner: 145-mm diameter.
- Second burner: 120/180-mm viariable diameter.
- Ultrafast heating, 9 heating levels, residual heat indicator.
- Control panel heat protection.
- 99-minute timer.
- All functions equipped with audible alarm.
- Automatic swtiching-off when cooktop is not in use for a long time.
- Children protection device with function automatic lock.

Code	V	⟷ mm		Burners	Ignition
		external	recess		
50.707.81	220	510x290	480x260x40(h)	Ø 180 - 1800 W; Ø 120 - 750 W Ø 145 - 1200 W	touch-control

Touch control 4-burner pyroceram hob unit

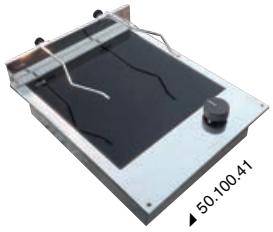
Code	V	⟷ mm		Burners W
		outside	recess	
50.707.72	220	580x510	560x490x41h	1200x2+1700+1800

Ceramic induction hob unit

Inductive heating only heats the surface in contact with the saucepan therefore it implies a high energy saving. Stainless steel structure. Touch screen control.

Code	Burners	V	W	⟷ mm	
				outside	recess
50.707.90	2	220	1300+2200	500x290	470x260

◢ 50.100.43



◢ 50.100.41

Electric hob units

Made of glass ceramic with stainless steel frame, high quality parts, high speed hot plates, built-in thermal protectors, residual heat indicator light, virtually cool top on the cooker edge, 220V power.

Code	N° burners	Burner W	⟷ mm	Removable pan holders OPTIONAL
50.100.41	1	1200	300x300	**50.100.42**
50.100.43	2	1800+1200	290x510	**50.100.44**

► Sinks with fold-out hob

◢ 50.102.01

◢ 50.100.48

Hinge stove folding into the sink

Made of **polished stainless steel**, fitted with folding tap, pot holder and tempered glass cover.

Code	Version	No. of burners	Burners W	⟷ mm		OPTIONAL pot holder
				outer	recess	
50.102.01	Round	1	1750	Ø 340 x 180	-	**50.100.48**
50.102.05	Rectangular	1	1750	320 (depth) x 350 x 180	-	**50.100.48**

50.186.xx *OPTIONAL 70-mm Ø drain plug with grating*

◢ 50.102.05

► Hobs and sinks fitted with worktop cover SMEV

DOMETIC

SMEV stainless steel hob with smoke tempered glass lid

Burners with piezo-electric ingnition and safety thermocouple, burner power 1,700 W each.

Code	N° burners	⟷ mm
50.802.20	2	480x370
50.802.30	3	560x440

◢ 50.802.20

◢ 50.802.30

SMEV stainless steel sink with smoke tempered glass lid

Fitted with cold and hot water tap.

Code	Version	⟷ mm	To match to
50.800.50	Rectangular	420x370	50.802.20
50.800.60	Rectangular	420x440	50.802.30

◢ 50.800.50/60

SMEV/DOMETIC stainless steel hob with smoke tempered glass lid

Fitted with sink and chromed brass **folding tap (cold water).** .
Cramer version with piezoelectric safety ignition system, removable pan grids, stainless steel burners, rubber seal.

Code	Version	With sink	No of burners	Burners W	⟷ mm	
					outside	recess fit
50.803.41	CRAMER	RIGHT	2	1000+1600	600x445x146	590x435

50.530.00 *OPTIONAL 90° drain*
50.535.00 *OPTIONAL Straight drain*

◢ Optional drain plugs

◢ 50.803.41

Drain outlets SMEV

Code	Type	Pipe Ø mm	Grating Ø mm	For sinks
50.535.00	Straight	25	47	50.800.50; 50.800.60; 50.803.60
50.530.00	90° angle	25	47	50.800.50; 50.800.60; 50.803.60

◢ 50.535.00

◢ 50.530.00

► Integrated crystal glass/stainless steel hob unit

Stainless steel hob unit with tinted glass cover

With self-locking black tempered tinted glass lid. Hidden hinges.
Stainless steel grid with vibration-dumping rubber feet.

Code	No of burners	Burners W	⟷ mm			OPTIONAL pot holder
			outside	inside	recess	
50.801.00	1	1750	Ø 340	Ø 300	80	**50.100.48**
50.801.01	2	1000+1750	510x390	450x330	80	**50.100.49**
50.806.02	2	1000+1750	530x340	515x325	110	**50.100.49**

Sink with tinted glass lid

Polished stainless steel, fitted with water tap. Optional drain.

Code	⟷ mm			Water tap
	inside	outside	depth	
50.187.46	300	330	180	Cold, only
50.187.45	298x328	325x350	150	Cold, only
50.800.01	510x390	450x330	-	Cold, only

50.186.98 *OPTIONAL 90° drain plug*
50.186.99 *OPTIONAL straight drain plug*

Cooktop with tinted tempered glass lid

Fitted with sink and hot/cold water mixer.

Code	Sink	No of burners	Burners W	⟷ mm			OPTIONAL pot holder
				outside	inside	recess depth	
50.805.04	right	1	1750	530x340	515x325	150	**50.100.48**
50.805.05	left	1	1750	530x340	515x325	150	**50.100.48**
50.805.06	right	2	1000+1750	765x355	716x340	150	**50.100.49**
50.805.07	left	2	1000+1750	765x355	716x340	150	**50.100.49**

50.186.98 *OPTIONAL 90° drain plug*
50.186.99 *OPTIONAL strainght drain plug*

Crystal glass worktop with hobs + Stainless Steel sink

Code	No of burners	Burners W	⟷ mm		Tap included	OPTIONAL pot holder
			external	recess		
50.100.68	2	2x1750	600x420X47 (overhang)	47 (overhang)	no	**50.100.49**

◢ 50.100.49

◢ 50.100.68

New

Crystal glass worktop with hobs + Stainless Steel sink

Code	No of burners	Burners W	⟷ mm		Tap included	OPTIONAL Pot holder
			external	recess		
50.100.69	2	2x1750	600x420X47 (overhang)	47 (overhang)	No	**50.100.49**

◢ 50.100.92

◢ 50.100.69

► DOMETIC Cookers with hobs/grill

Gas range with cardan joint oven

Range + oven. **Tempered glass** cooktop, polished stainless steel frame, piezoelectric ignition, double thermal glass oven.

Code	Burners	30-l oven	⟷ mm	kg
50.350.02	2 (1.00 + 1.75 kW)	1.9 kW	500x410x458 (h)	22
50.350.03	3 (1.00 + 1.75 x 2 kW)	1.9 kW	500x410x458 (h)	23

◢ 50.350.03

◢ 50.350.02

DOMETIC Slim compact gas range

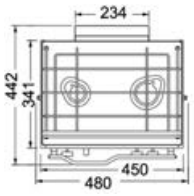
Kitchen range. Fitted with pot holders and gimbals.
Tempered glass front, internal light, thermostat, safety ignition. Stainless steel frame.

Code	Version	Burners	Grill	Oven	⟷ mm		kg
					with gimbals	without gimbals	
50.366.02	Sunlight	2 (2.2 + 1.8 kW)	No	1.1 kw	475x357x398 (h)	449x357x398 (h)	15.5
50.366.22	Starlight	2 (2.2 + 1.8 kW)	Yes (1.3 kW)	1.1 kw	475x357x540 (h)	449x357x508 (h)	18.5

◢ 50.366.02

◢ 50.366.22

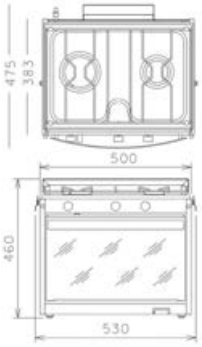
► TECHIMPEX kitchens with oven



TECHIMPEX Classic version

Features: **two high power burner**; pot holder bars; side cardanic support; safety thermocouples; double front glass; thermostat; central oven burner for better heat distribution; double removable over tray, easy maintenance.

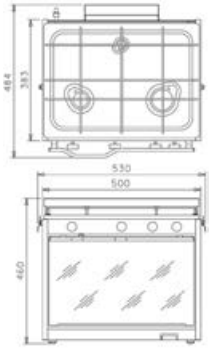
Code	Burners	⟷ overall size mm		
		Width	Depth	Height
50.375.00	2 of 1700/2300 watt	450+30 for joint	442	442



TECHIMPEX Marinertwo version

Features: **two high power burners;** pot holder bar; **adjustable** cardanic side support; safety thermocouples; **piezoelectric switching on system** powered by batteries; **mirror** front glass; grill; infinitesimal adjusting thermostat; large hob unit suitable for household pots; central over burner for better heat distribution; double removable oven tray, easy maintenance; large over (900 cm^2).

Code	Burners	⟷ overall size mm		
		Width	Depth	Height
50.370.00	2 of 1700/3000 watt	500+30 for joint	475	460



TECHIMPEX XL3 version

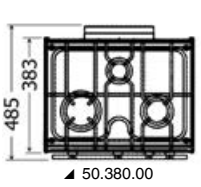
Features: pot holder bar; side cardanic support; safety thermocouples; thermostat; double front glass; large size hob unit suitable for household pots; central oven burner for better heat distribution; removable oven tray, easy maintenance; **large** oven (900 cm^3).

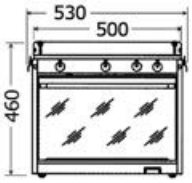
Code	Burners	⟷ overall size mm		
		Width	Depth	Height
50.385.00	3 x 900/1700/2300 watt	500+30 for cardan joint	484	460

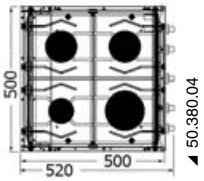
Gas kitchen "Topline" series TECHIMPEX

High quality product, professional performance;
features: very sturdy stainless steel structure; solid stainless steel pot holder, adjustable by length and height; removable side flame trap, easy maintenance; cardan joint with adjustable patented system; piezoelectric switching on system powered by AA batteries.

Code	Type	N. burners	Burners watt	Oven + Grill	kg
50.380.00	TOPTHREE	3	3000/1700/1000	1700 + 1600	27
50.380.04	TOPFOUR	4	3000/1700/1000	1700 + 1600	27

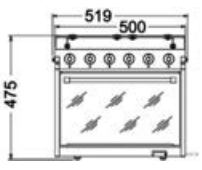


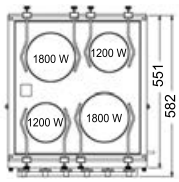




TECHIMPEX Horizon electric kitchen with oven

50.390.04 Mirror-polished stainless steel construction, **ceramic glass** top, fitted with cardanic joint and pot holder bar. Oven with grill and large drip pan. Version fitted with 4 burners (1200x2+1800x2) and 1500-watt oven, weight 25 kg. 220 V.





► Electric barbeques

Stainless steel pyroceram electric barbecue

Code	volt	Power W	⟷ external mm
50.381.00	220	2500	500x300

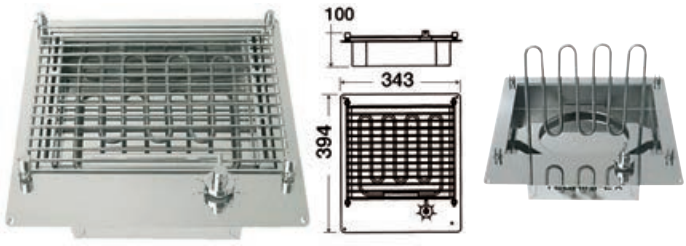
New Stainless steel and pyroceram electric barbecue

Code	V	Power W	⟷ outside mm
50.381.01	220	2500	500x300

Stainless steel electric barbecue

Code	volt	Power W	⟷ external mm	⟷ recess mm
50.709.10	220	2400	500x300	455x240x45 depth

Compact electric barbecue



50.382.00 Made of AISI 316 stainless steel, fitted with removable drip tray, tilt electric resistant, removable grill, fixed with special anti-vibration hooks, energy consumption of 1.5 Kw at 220 V.

► Containers and accessories for gas systems

Gas bottle housing

Made of **polyethylene** in accordance with RINA regulations, designed for mounting outside the cabin.

Code	Ø mm	Height mm
50.250.00	270	320

Watertight gas bottle housing

OSCULATI

Made in compliance with the ISO 10239 standard, which requires for gas bottles inside boats to be stored in a well ventilated and insulated compartment connected to the outside. Made of **polyethylene**. It fits camping gaz bottles or similar types and has to be completed with kit 50.013.92.
8-mm gas fitting, 20-mm nylon vent.

Code	External Ø mm	Internal Ø mm	Height mm	Fixing OPTIONAL
50.251.00	270	200	348	50.251.05

Plastic locker suitable for housing gas bottles (includes vent)

OSCULATI

For 3 kg bottles, fitted with respective pressure regulator. Product includes UV-resistant Luran hatch and watertight gas hose joint. In compliance with ISO 10239 standard. Remote ventilation by means of 16-mm Ø hose.

Code	⟷ front mm	Recess mm	Overhang mm
50.252.00	370x370	305x305	250

Plastic locker suitable for housing gas bottles (includes built-in vent)

OSCULATI

For 3-kg bottles, fitted with respective pressure regulator. Fitted with UV resistant Luran hatch and watertight gas hose joint. In compliance with the ISO 10239 standard. Ventilation integrated into the hatch. Right opening as in the picture. Possibility of left opening for a minimum order of 5 units.

Code	⟷ front mm	Recess mm	Overhang mm
50.253.00	405x375	330x300	250

Wall mounting system for bottles

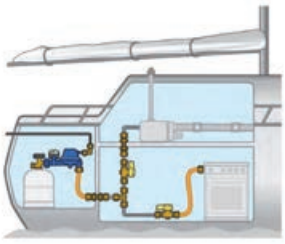
50.251.05 Plastic holder and polypropylene adjustable strap. Suitable for wall mounting model 50.251.00

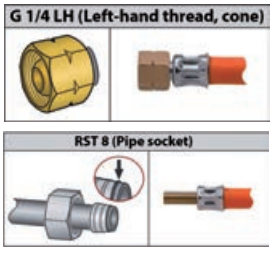
Bottle holder

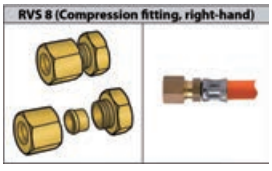
White soft PVC compartment suitable for 3-kg Camping Gaz bottles or similar.
To be used as antiskid, shock absorber and to prevent the bottle from scraping the peak and staining it with rust.

Code	Ø mm
50.249.00	203

► GOK accessories for gas installations







Kit for remote “Campingaz” cylinders or similar

Code	Description
50.013.90	Includes: pressure regulator 30 mbar with tap to be screwed on the bottle; flexible hose 65 cm long, from the pressure regulator to the 8 mm copper pipe; low pressure tap to be mounted to the cooper pipe end; flexible hose 85 cm from the cooper pipe tap to cooker; fitted with 4 reinforced **brass** bushings, to be mounted on each pipe joint.

Kit for remote standard gas cylinders 5/10/20 kg

Code	Description
50.013.91	Includes: tap to be screwed on the bottle; pressure regulator 30 mbar to be screwed on the tap; flexible hose 65 cm long from the pressure regulator to the 8 mm copper pipe; low pressure tap to be mounted to the cooper pipe end; flexible hose 85 cm from the cooper pipe tap to cooker; fitted with 4 reinforced brass bushings, to be mounted on each pipe joint.

Kit for Campingaz bottles or similar, for mounting under the kitchen in a watertight container

Code	Description
50.013.92	Includes: 30-Mbar regulator fitted with tap to screw up onto the bottle + 65-cm hose going from the regulator to the container + 80-cm hose going from the container to the intercepting tap + 120-cm hose going from the tap to the gas cooker.

G 1/4 LH x RST 8 tubes

1/4 threaded tubes (connection to 50.013.12) + 8-mm smooth tube (connection to cock 50.013.14).

Code	Length mm
50.013.25	600
50.013.26	800
50.013.27	1000

RVS 8 X RST 8 tubes

Connection to M5 fittings or to 50.013.14 cock + female to be fastened on kitchen hose adapter (8-mm smooth hose adapter).

Code	Length mm
50.013.30	600
50.013.31	800
50.013.32	1000

G 1/4 LH x G 1/4 LH tubes

Code	Length mm
50.013.51	600
50.013.52	800
50.013.53	1000

G 1/4 LH x RVS 8 tubes

Code	Length mm
50.013.61	400
50.013.62	600

RVS 8 x RVS 8 tubes

Code	Length mm
50.013.71	400
50.013.72	600

Gas bottle cock

50.013.10 With overpressure savety device. M16x1.5 thread + shell.

30-Mb pressure regulator with monemeter

50.013.12 Shell thread (connection to 50.013.10) + 1/4 (connection to 50.013.25/26/27).

M5 fittings

8+8-mm femal fitting, DIN 8434-1.

Code	Type
50.013.40	Bulkhead
50.013.41	90° bulkhead
50.013.42	Tee
50.013.43	90° elbow
50.013.44	Straight

◢50.013.40

◢50.013.41

◢50.013.43

◢50.013.42

◢50.013.44

Spare ogive for 8-mm copper tube fittings

50.013.97 To be replaced any time the tube is changed.
5-pcs display blister.

Brass nut for 8-mm copper tube, M14 x 1.5F pitch.

50.013.98 3-pcs display blister.

Shut-off valve with fixing plate

50.013.14 DIN EN12514-2 - EN331. 8+8-mm female fitting (connection to tubes 50.013.25 and copper pipe).

Gas leak detector

This device has to be installed near the gas bottle, downstream the pressure regulator. It detects possible gas leaks downstream the butane bottle.

Code	Model
50.013.16	Universal for RST8 copper pipes or rubber tubes

► Pots and kitchen accessories

OSCULATI

Origonol alcohol for ORIGO/DOMETIC kitchens

Alcohol specially suited for all Origo/Dometic kitchens and ovens, 99% pure, high calorie power with respect to normal alcohol, supplied in 1 litre container.

Code	Package
50.202.00	1 l

Toaster

Made of **stainless steel**. To be used on an onboard kitchen burner.

Code	⟷ base mm
50.819.00	136x113

Waste container fitted with snap-in locking

OSCULATI

50.420.01 Uses standard waste bags, the automatic locking system prevents bad odours leakages.

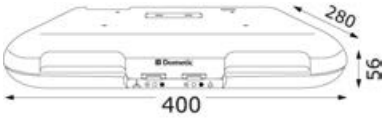
► Household appliances for pleasure boats

Dometic
Created by Electrolux

DOMETIC air-recirculation cooker hood

Air-recirculation cooker hood with activated carbon air filter. Washable filter, 2-speed fan, 2 x 10W integrated halogen spotlights.

Code	V	Suction	Current draw	Lights	⟷ mm	kg	Spare activated carbon filter
50.236.13	12	38/45 m^3/h	5 W	2x10 W	400x280x56 (H)	2.2	**50.236.15**



WAECO

WAECO Power-vac battery-operated portable vacuum cleaner

12V 2.6A battery-operated vacuum claner. 3.8-litre capacity, 18-minute (± 10%) uninterrupted operation. Cleaning power: approx. 400-mm water column (±10%).

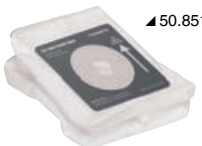
Code	volt	Life	Recharge time	⟷ mm
50.848.00	12	18 (?± 10%)	10/14 hours	298x171x175

DOMETIC central vacuum cleaner

It can be flush mounted into the bulkhead. Suction power: 2500 mm (H2O column). The system includes: 12-m suction hose, brushes and crevice tool. Efficient and hypoallergenic triple filter.

Code	V	Power W	⟷ mm	Spare bags (5 pcs kit)
50.851.01	220	950	298x171x175	**50.851.05**

◢ 50.851.05



► Water heaters and accessories

ISOTEMP INDEL WEBASTO MARINE boiler - SPA series

AISI 316 stainless steel internal tank and corrugated coil. Grey propylene extrenal shell. 750 W 220 V **nickel-plated copper** electric resistance. Safety valve set at 6 bar. CFC-free polyurethane foam insulation. AISI 304 stainless steel fixing brackets. Thermostatic mixer 50.189.58 to be purchased separately.

Code	Type	Volume l	⟷ LxØ mm	Max pressure bar	W	kg
50.292.01	SPA15	15	450x310	6	750*	7.5
50.292.02	SPA20	20	550x310	6	750*	9
50.292.03	SPA25	25	650x310	6	750*	10
50.292.04	SPA30	30	535x390	6	750*	12
50.292.05	SPA40	40	640x390	6	750*	14

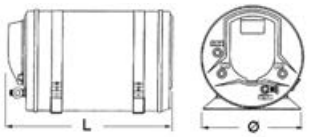
* *1200 W resistance*

ISOTEMP INDEL WEBASTO MARINE boiler

Stainless steel internal tank, coil and external cover. The tank has a 5-year warranty against leaks. It works with a 750W 220V **nickel-plated copper** resistance or with a heat exchanger connected to the engine cooling system. The resistance is positioned on the lower part of the boiler to avoid heat stratification. Fitted with dual safety/service thermostat and 7-bar safety valve. Polyurethane foam insulation, horizontal or vertical installation.

Code	Volume l	⟷ LxØ mm	Max pressure bar	Electric resistance W	kg
50.291.00	15	520x295	7	750	9
50.291.20	20	645x295	7	750	10.5
50.291.01	25	765x295	7	750	12
50.291.25	24	470x395	7	750	12.5
50.291.02	40	640x395	7	750	15.5
50.291.03	50	760x395	7	750	17
50.291.04	75	1050x395	7	750	24.5
50.290.00*	16	560x400x180	5	750	15.5

* *Thermostatic mixer not included.*



Boat Boiler by ATI

Bivalent operation with heat exchanger or 1250W 230V electric resistance (110V for US market available on request). Driven insulation between tank and polyurethane foam body to keep water hot for at least **123 hours**. **Overdimensioned** heat exchanger that provides real performance exceeding by far competitors' products yielding double capacity. Horizontal and vertical mounting. Safety valve calibrated at 4 bar, 8-bar testing pressure.
Model A) Fitted with **porcelain glass** boiler and **aluminium** external coat. Cathodic protection with magnesium anode. Enameled heat exchanger.
Model B) Fitted with **AISI316 stainless steel** boiler and **mirror polished inox-like aluminium** external coat. **Stainless steel** heat exchanger. With front exhaust tap. Installation on three axes possible.

Version A	Version B SS	Model	l	Shape	⟷ tot. with flange P mm	⟷ only boiler L2 mm	⟷ bracket centre distance L1 mm
50.290.51	-	"Boat Boiler 19"	20	rectangular	190	420	457
50.289.49	**50.389.50**	"Boat Boiler 22"	22	cylindrical	485	410	335
-	**50.389.55**	"Boat Boiler 30"	30	cylindrical	619	544	470
50.289.52	**50.389.52**	"Boat Boiler 45"	45	cylindrical	320	880	320

50.289.54 *Spare anode, for all mode*

Thermostatic mixer for water heaters

50.189.58 Designed to adjust the output temperature of hot water to avoid **high temperatures**, universal size fits all water heaters.

Water heater joint hot water outlet pipe

50.289.56 Made with **stainless steel** metal braid, replaces PVC pipe that does not withstand high temperatures from the boiler water output, length 45 cm, standard size screw thread 1/2".

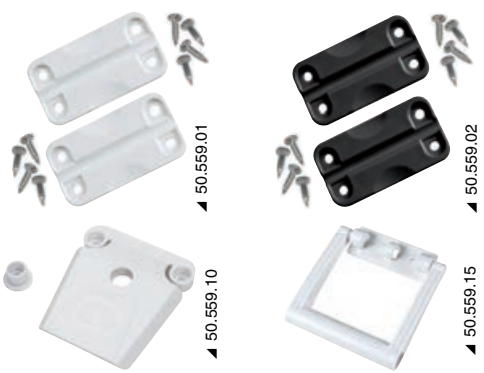
► IGLOO ® iceboxes

IGLOO rigid icebox (up to 90 litres)

Designed for onboard use. Ideal for food and fish conservation as well as live bait well. UV-resistant, anti-odour plastic lining. Sturdy frame you can sit on.

Code	Volume l	Model	Drain plug	UV protection	Reinforced hinges	Lock	Ice retention days*	⟷ cm	kg	OPTIONAL cushions
50.558.02	45	LAGUNA 48	No	No	No	-	3	65x36x36 H	3.9	-
50.558.04	28	MARINE ULTRA 30	No	Yes	Yes	-	3	47x34x42 H	3	-
50.558.05	34	MARINE ULTRA 36	No	Yes	Yes	-	2.5	60x35x33 H	3.6	-
50.558.07	45	MARINE ULTRA 48	-	-	-	-	3.5	65x37x37 H	4.8	**50.566.70**
50.558.09	51	MARINE ULTRA 54	Yes	Yes	Yes	SS	4	65x39x39 H	5.2	-
50.558.13	68	MARINE ULTRA 72	Yes	Yes	Yes	SS	5	75x42x42 H	7.2	**50.566.80**
50.558.14	88	MARINE ULTRA 94	Yes	Yes	Yes	SS	5	88x42x45 H	7.6	-
50.558.23	23	MARINE CONTOUR 25	Yes	Yes	-	-	2	51x27x33 H	2.4	-

* *Days of ice retention at an external temperature of 32°C*



Spares for IGLOO ice makers

Made of rugged and UV-resistant material. Supplied with fixing screws, easy to install.

Code	Type	Couleur	⟷ cm	Compatible with
50.559.01	Standard hinge	White	5.87x0.05x3.21	**all models**
50.559.02	Long lasting hinge	Black	5.87x0.45x3.21	**all models**
50.559.10	Standard lock	White	8.58x1.59x14.61	**50.558.09; 50.558.12; 50.558.13; 50.558.14; 50.558.15; 50.558.18; 50.558.19; 50.558.30**
50.559.15	Foldable handles	White	13.28x2.51x14.3	**50.558.04; 50.558.05; 50.558.07; 50.558.09; 50.558.13; 50.558.23**

IGLOO rigid icebox (over 90 litres)

Code	Volume l	Model	Drain plug	UV protection	Reinforced hinges	Lock	Ice retention days**	cm	kg	OPTIONAL cushions
50.558.15	95	QUICK & COOL 100	Yes	-	-	Plastic	5	90x45x43 H	8.6	**50.566.90**
50.558.25 New	113	MARINE CONTOUR 120	Yes	Yes	Yes	Plastic	5	98x44x45 H	8.4	-
50.558.18	114	POLAR 120	Yes	-	-	Plastic	5	98x44x45 H	12.7	**50.566.92**
50.558.19	142	QUICK & COOL 150	Yes	-	-	-	7	105x47x51H	11.2	**50.566.95**
50.558.30*	157	MAXCOLD CONTOUR 165	Yes	-	-	-	7	107x48x59H	14	-

* *Additional hatch for fast access + 4 glass holders*
** *Days of ice retention at an external temperature of 32°C*

New IGLOO BMX icebox

Code	Volume l	Model	Drain plug	UV Protection	Reinforced hinges	Lock	Ice retention days*	cm	kg
50.558.40	23	BMX 25	Yes	No	Yes	Rubber T lock	4	51x33.5x 41.5 H	4.7
50.558.41	49	BMX 52	Yes	No	Yes	Rubber T lock	5	67x41.5x 42 H	7.4

* *Days of ice retention at an external temperature of 32°C*

IGLOO iceboxes on wheels

Code	Model	Capacity l	cm	kg
50.558.10	WHEELIE 38	36	58x33x40 H	4.3
50.558.12*	MARINE ULTRA GLIDE 110	104	101x47x50 H	11.5

* *SS hinges and hooks, comfort carrying handle, stainless steel **telescopic** pulling handle*

IGLOO soft ice boxes

Made of 600-denier athermic UV-resistant white fabric with ULTRATHERM® padding.

Code	Model	Type	Capacity l	Thermal grade / Marine Grade*	cm
50.556.02	ULTRA-HLC24	Semi-rigid	13	1	33x27x28
50.556.08	ULTRA-HLC36	Semi-rigid	25	1	41x26x31

* *Ice retention days at 32°C external temperature.*

Universal spare part kit for IGLOO iceboxes

50.559.00 It contains: 4 hinges, 2 locking hooks, 2 drain caps, 24 S.S. screws.

Anchoring system for ice boxes

50.156.11 Fitted with 4 angles and two elastic cables for mounting through the handles, universal size.

Universal fixing system for iceboxes

50.156.12 It includes 4 corner plates + 2 elastic cables with stainless steel rings.

► Portable fridges

▲ 50.171.32 ▲ 50.171.33

Powerbox® Plus 28L portable electric cooler

Click-and-lock lid and folding handle. Antimicrobial liner to resist odours, mould and mildew. It keeps the content 20°C below the ambient temperature. For 1.5-l bottles. 12V/230V power supply.

Code	Volume l	⟷ mm
50.171.32	28	410x310x470

Power box Plus TE36L electric cooler

It keeps the content 20°C below the ambient temperature. Antimicrobial liner to resist odour, mould and mildew. 2-l bottles fit into it. 12V/230V power supply.

Code	Volume l	⟷ mm
50.171.33	36	560x350x410

Portable fridge/freezer with compressor

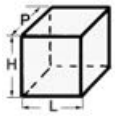
Fitted with a 12/24V noiseless airtight compressor.
Electronic digital control panel for temperature setting from -18° to +10°.
45/55 W ± 10% current draw.
ECO operating mode.
Built-in foldable carrying handles.
Ligther-type plug included.

Code	Usable volume l	⟷ mm	kg
50.810.24	24	575x360x340	8.5
50.810.34	34	580x364x433	9.5

ISOTHERM compact and portable built-in refrigerator/freezer

Compact and portable refrigerator/freezer with Secop BD Micro compressor. 12/24-volt supply. 35-watt consumption. Temperature adjustable by means of a thermostat. Made with stainless steel materials.

Code	Type	Volume l	⟷ (HxLxP) mm	kg
50.832.28	TB18	18	405x235x565	8.6



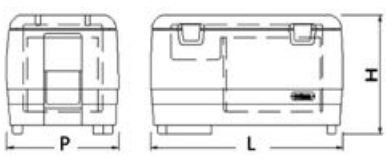
Travel box portable cool box

Portable fridge/freezer designed for outdoor use and to withstand shocks.
Fitted with thermostat and completely made of stainless materials.

Code	Type	Volume l	Current draw* (W/24h)	⟷ (HxLxP) mm	Secop compressor type	kg
50.832.32	TB 31 AC/DC	30	220 - 740	380x585x350	BD35F	18
50.832.42	TB 41 AC/DC	40	250 - 790	445x585x350	BD35F	21
50.831.07	TB 51 AC/DC	50	240 - 770	530x585x350	BD35F	23

* *Energy consumption when operating at 12V, +5°Cin the refrigerating compartment, +25°C room temperature*

▲ Thermostat



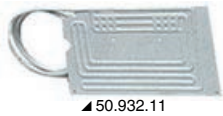
► ISOTHERM Indel Webasto Marine fridge unit

For a complete group, you have to order one fridge unit + one evaporator

Evaporator with quick coupling and thermostat to be connect to 50.932.00/02

Code	Type	Suitable for litres max		⟷ mm	Matching compressor
		Fridge	Freezer (-12°)		
50.932.10	Plate accumulator	60	20	350x130	**50.932.00**
50.932.11	Plate accumulator	80	26	350x250	**50.932.00**
50.932.12	Plate accumulator	150	50	386x361	**50.932.00**
50.932.13	Plate accumulator	170	56	815x210	**50.932.00; 50.932.02**
50.932.14	Plate accumulator	260	86	1000x270	**50.932.02**
50.932.17	L-shaped	60	20	(250+110)x350	**50.932.00**
50.932.18	L-shaped	125	41	(400+170)x200	**50.932.00**
50.932.05	Evaporator box	125	41	240x210x85	**50.932.00**
50.932.06	Evaporator box	150	50	320x230x100	**50.932.00**
50.932.19	Evaporator box	200	66	380x270x140	**50.932.00; 50.932.02**
50.932.07	2L eutectic plate	100	40	300x210x60	**50.932.00**
50.932.08	3L eutectic plate	150	50	355x280x60	**50.932.00; 50.932.02**
50.932.15	Coated lamellar evaporator, with ball bearing fan and quick cooling	150	-	220x275x70	**50.932.00**

◢50.932.10

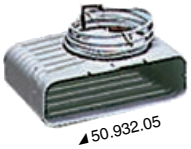

◢50.932.11

◢50.932.13

◢50.932.12

◢50.932.14

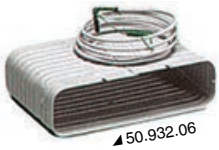
◢50.932.17


◢50.932.05

◢50.932.15

◢50.932.18

◢50.932.19


◢50.932.06

◢50.932.07/08

ISOTHERM refrigerating unit by Indel Webasto Marine

Cooling unit with SECOP compressor and automatic electronic control that automatically switches off the unit when the battery voltage drops under 10.4 at 12V (22.8 at 24V). Fitted with quick couplings precharged with RI34 eco-friendly gas.
Evaporator to be purchased separately.

Code	Type	V	Consumption	⟷ mm
50.932.00	BD 35 F	12/24	320/380 W / 24h *	280x160x175
50.932.02	BD 50 F Vent	12/24	400/600 W/ 24h *	330x160x175

* *Temperature: external 25°C, inside the box 5°C*

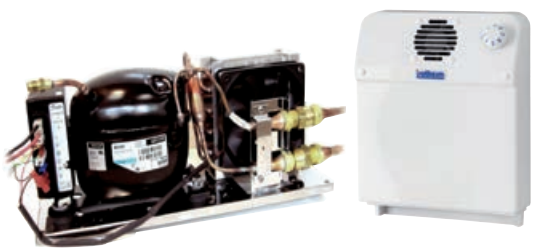
50.932.20 *Smart Energy Control OPTIONAL*

ISOTHERM by Indel Webasto Marine Secop cooling unit with VE150 ventilated evaporator

The well-known SECOP cooling unit with voltage automatic control disconnects when this latter drops below 10.4 (22.8) V. DANF 0SS/Secop.
Supplied as AC/DC 12/24/220V version with 220 automatic switching when at the dock otherwise the generator works.
The **ventilated** evaporator is fitted with white plastic casing, cools **up to 150 l** and is very compact.

Code	Volt	Consumption	⟷ Condenser mm	⟷ Evaporator mm
50.931.98	12/24/220	0.380 kw/24 h *	388x132x160	220x275x58

* *External temperature: 25°C; temperature in the box: 5°C.*



ISOTHERM ITC+ cooling unit with evaporator box

Kit including ventilated evaporator box and compressor whose combination reduces current draw by 25-30%. The ITC electronic systems makes the compressor work in Soft Start mode and manages the Fast Cooling and Over Cooling functions: when the boat engine is on, the ITC detects a current surplus and makes the compressor work at its maximum operation rate for faster cold storage; when the boat engine is off, the compressor works at minimum rate to ensure the minimum temperature setting.
Digital panel for temperature control.
Battery protection with selection of 3 different levels.
Air-cooled NIDEC (Secop) 12/24 V compressor.
Click-On fastening system for compressor.

Code	Max volume		V	Compressor	Temperature range	⟷ mm	
	Cooling unit	Freezer				Evaporator	Compressor
50.931.92	100	35	12/24	BD35F	+2° -6°	300x210x60	280x160x175
50.931.93	150	50	12/24	BD50F	+2° -6°	355x280x60	330x160x175
50.931.94	200	65	12/24	BD50F	+2° -6°	355x280x90	330x160x175

► Accessories for refrigerators

INDEL WEBASTO MARINE ISOTHERM Smart Energy Control

50.932.20 By means of a sophisticated micro-processor, this device drastically reduces the energy consumption of fridges and refrigerating units. It adjust in continuous the compressor revolution number and, by means of a special sensor, it detects the refrigerator air temperature thus cooling food a bit more than necessary when the boat engine is on or when the boat is connected to the dock. During navigation, it exploits the food surplus frigories to reduce the compressor operation with an energy saving of about 50%. This device can match any fridge or refrigerating unit fitted with SECOP 101N0212 electronic unit. The kit includes: panel with micro-processor, adjustable potentiometer, air sensor.

► ISOTHERM fridges

DIVINO THE ONE electric glacette

Recess-fit cooling device for bottles. It keeps the wine or champagne perfectly refrigerated. Touch the stainless steel crown to activate it. Interactive LED lighting with 27 colour options. IP65 on the outer side, IP22 on the inner side.

Code	Capacity	V	Power W	Bore Ø mm	Ring Ø mm	Depth mm	Inner light
50.835.20	1 bottle	12	60	152	169	301	27 colour options

ISOTHERM refrigerator with maintenance-free 42-l Secop hermetic compressor

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and turns on again when voltage goes up to 11.7 volt (adjustable values respectively up to 9.6 and 10.9 volt).
Rotation speed at 2000-2500-3000 RPM adjusted according to the volume to be cooled.
Forced ventilation. Compressor can be remote controlled.
Current draw: 275 W/24h.

Code	Model	Volume l	V	Eutectic plate cool accumulation	Compartment	⟷ mm			kg	OPTIONAL finish frame	
						width	depth	height		Black	SS
50.830.04	CR42/V	42	12/24	No	Single	380	452/310	520	13.5	**50.934.01**	**50.934.02**
50.833.01	CR42EN	42	12/24	Yes	Single	380	475/310	530	17	**50.934.01**	**50.934.02**

ISOTHERM refrigerator with maintenance-free 49-l Secop hermetic compressor

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and that starts up again when voltage goes up to 11.7 volt (adjustable values respectively up to 9,6 and 10,9 volt).
2000-2500-3000 RPM rotation speed adjusted according to the cooling volume. Forced cooling.
Current draw: 280 W/24h.

Code	Model	Volume l	V	Eutectic plate cool accumulation	Compartment	⟷ mm			kg	OPTIONAL finishing frame	
						width	depth*	height		Black	SS
50.935.00	CR49	49	12/24	No	Single	380	470	525	17	**50.934.01**	**50.934.02**
50.936.00	CR49EN **	49	12/24	Yes	Single	380	470	525	18	**50.934.01**	**50.934.02**

* *The depth cited excludes the door and handle (± 40 mm)*

** *Cold accumulating system, reduced energy consumption*

ISOTHERM refrigerator with maintenance-free 65-l Secop hermetic compressor

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and that starts up again when voltage goes up to 11.7 volt (adjustable values respectively up to 9,6 and 10,9 volt).
2000-2500-3000 RPM rotation speed adjusted according to the cooling volume. Forced cooling.
Current draw: 290 W/24h.

Code	Model	Volume l	V	Eutectic plate cool accumulation	Compartment	⟷ mm			kg	OPTIONAL finishing frame	
						width	depth*	height		Black	SS
50.935.11	CR65	65	12/24	No	Single	450	500	530	18	-	**50.934.03**
50.936.11	CR65EN **	65	12/24	Yes	Single	450	500	530	19	-	**50.934.03**

* *The depth cited excludes the door and handle (± 40 mm)*
** *Cold accumulating system, reduced energy consumption*

ISOTHERM refrigerator with maintenance-free 85-l Secop hermetic compressor

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and that starts up again when voltage goes up to 11.7 volt (adjustable values respectively up to 9,6 and 10,9 volt).
2000-2500-3000 RPM rotation speed adjusted according to the cooling volume. Forced cooling.
Current draw: 380 W/24h.

Code	Model	Volume l	V	Eutectic plate cool accumulation	Compartment	⟷ mm			kg	OPTIONAL finishing frame	
						width	depth*	height		Black	SS
50.935.02	CR85	85	12/24	No	Single	475	515	625	23	**50.934.04**	-

* *The depth cited excludes the door and handle (± 40 mm)*

ISOTHERM refrigerator with maintenance-free 100-l Secop hermetic compressor

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and that starts up again when voltage goes up to 11.7 volt (adjustable values respectively up to 9,6 and 10,9 volt).
2000-2500-3000 RPM rotation speed adjusted according to the cooling volume. Forced cooling.
Current draw: 400 W/24h.

Code	Model	Volume l	V	Eutectic plate cool accumulation	Compartment	⟷ mm			kg
						width	depth*	height	
50.935.12	CR100	100	12/24	No	Single	485	455	745	26

* *The depth cited excludes the door and handle (± 40 mm)*

ISOTHERM refrigerator with maintenance-free 130-l Secop hermetic compressor

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and that starts up again when voltage goes up to 11.7 volt (adjustable values respectively up to 9,6 and 10,9 volt).
2000-2500-3000 RPM rotation speed adjusted according to the cooling volume. Forced cooling.
Current draw: 440 W/24h.

Code	Model	Volume l	V	Eutectic plate cool accumulation	Compartment	⟷ mm			kg	OPTIONAL black finishing frame
						width	depth*	height		
50.935.03	CR130	130	12/24	No	Single	525	510	745	27	**50.934.06**
50.936.03	CR130EN **	130	12/24	Yes	Single	525	510	745	28	**50.934.06**

* *Depth is door and handle excluded (± 40 mm)*
** *Cold storage system, reduced current draw*

ISOTHERM refrigerator with maintenance-free Secop hermetic compressor - double compartment

Fitted with electronic control that turns off the fridge when the voltage goes under 10.4 volts and when starts up again goes up to 11.7 volt (adjustable values respectively up to 9,6 and 10,9 volt). Rotation speed of 2000-2500-3000 RPM adjusted according to the cooling volume.

Code	Model	Finish	Volume l	V	Current draw (W/24h) A	⟷ mm width	⟷ mm depth	⟷ mm height	kg
50.837.01	CR90	Grey	70+20	12/24	550	478	430	845	28
50.838.01 New	CR165	Silver	125+40	12/24	650	480	460	1220	37
50.838.02 New	CR219	Silver	178+41	12/24	650	566	491	1440	44

◢50.837.01

◢50.837.01

◢50.838.04

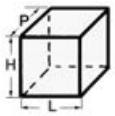
◢50.838.05

◢50.838.04/05

Classic trim frame for built-in mounting

Code	Series	Version	For l	Inside dimensions (fixing) mm	Outside dimensions (look) mm	Sides
50.934.01	Classic	Black	42/49	380	422	3
50.934.02	Classic	Satin finish SS	42/49	380	422	3
50.934.03	Classic	Satin finish SS	65	450	492	3
50.934.04	Classic	Black	85	Height 625	Width 35	2
50.934.06	Classic	Black	130	526	564	3

◢50.827.26



ISOTHERM Cruise Elegance refrigerator

New range of products with front door and different technical characteristics in comparison with the standard line: door ventilation system built in the cover lid; easyfix system for installation from inside the cabinet; freezer compartment featuring a new design features such as steel door and high-power LED internal lighting. Fitted with safety closure.

Code	Model	Capacity l	V	Current draw (W/24h) A	⟷ mm L	⟷ mm P	⟷ mm H	OPTIONAL silver finishing frame 3 sides	OPTIONAL silver finishing frame 4th side
50.827.18	CR42E	42	12/24	265	380	452	525	**50.934.10**	**50.934.21**
50.827.20	CR49E	49	12/24	265	381	500	520	**50.934.10**	**50.934.21**
50.827.22	CR65E	65	12/24	275	448	530	527	**50.934.11**	-
50.827.24	CR85E	85	12/24	368	477	555	620	**50.934.12**	-
50.827.26	CR130E	130	12/24	418	528	555	746	**50.934.13**	-

Standard silver finishing for panel/door

50.932.20 *OPTIONAL Smart Energy Control for energy absorption up to 25%*

◢50.827.18

◢50.827.22

◢50.827.20

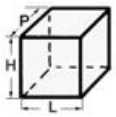
◢50.827.24

Elegance series trim frame for flush mounting

Code	Series	Version	For l	Inside dimensions (fixing) mm	Outside dimensions (look) mm	Sides
50.934.10	Elegance	Silver	42/49	380	422	3
50.934.11	Elegance	Silver	65	450	493	3
50.934.12	Elegance	Silver	85	476	541	3
50.934.13	Elegance	Silver	130	525	592	3
50.934.21	Elegance	Silver	49	322	424	4° (lower part)
50.934.22	Elegance	Satin finish SS	49	386	437	4° (lower part)

ISOTHERM refrigerator with stainless steel panel - clean touch

Fitted with flange for recess fit: the door is flush with the flange. Snap lock door, quite 12/24V SECOP compressor, inside LED light. Ready to fit smart energy control 50.932.20. Clean touch film, stainless steel panel freezer, improved insulation door and ergonomic handle.



Code	Model	Volume l	V	Current draw W/24h	⟷ mm			kg
					L	P	H	
50.827.30*	CR42 SS CT	42	12/24	285	400	500/385	525	17
50.827.31	CR49 SS CT	49	12/24	265	400	500	525	18
50.827.32	CR65 SS CT	65	12/24	275	470	520	528	20
50.827.33	CR85 SS CT	85	12/24	368	495	550	625	24
50.827.34	CR130 SS CT	130	12/24	418	545	555	750	29

* *Compressor can be remote operated up to 1.5 m. In this case depth is 385 mm.*

Dimensions of the refrigerator do not include the mouting flange.

◢50.827.30/31

◢50.827.32

◢50.827.33

◢50.827.34

ISOTHERM refrigerator with stainless steel front panel - double compartment

Complete with a flush-mount stainless steel flange, it allows installation of the door with a flush appearance. Closure by means of a flush snap lock. CR220 model: 130-l front door upper unit + 90-l front door lower freezer unit. CR260 model: 130-l front door hybrid upper unit + 130-l drawer unit (with 9.8-l freezer compartment).

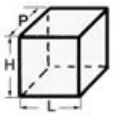
◢50.827.05

◢50.827.05

Code	Model	Volume l		V	Current draw A	⟷ mm			kg
		refrigerator	freezer			L	P	H	
50.827.05**	CR195 SS	130	65	12/24	2.3/6.2	545	580	1345	63
50.827.07**	CR200 SS*	150	50	12/24	2.3/6	735	620	880	53
50.827.16	CR220 SS	130	90	12/24	2/4	545	565	1538	69
50.827.15	CR260 SS	130+130	-	12/24	2/4	545	565	1538	74

** *Refrigerator with freezer.*

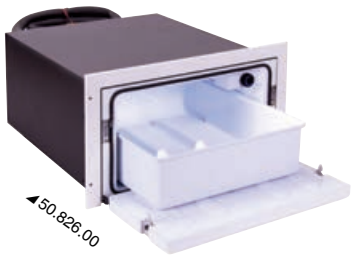
* *Complete with AC-DC 115/230 kit*



◢50.827.15

◢50.827.16

◢50.827.07



50.826.00

50.827.00

Isotherm fridges with removable drawer

Fitted with Secop compressor with 12/24V universal voltage, **stainless steel** frame.

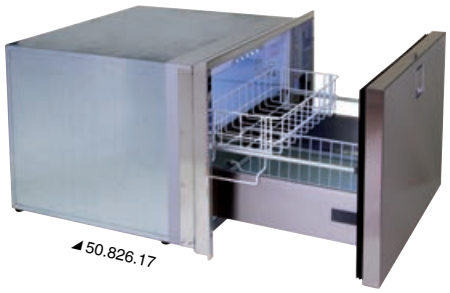
Code	Model	Capacity l	V	Consumption A-h	⟷ LxDxH mm	OPTIONAL SS finishing frame on 4th side
50.826.00*	CR36	36	12/24	0.6-2.7	440x675x250	-
50.827.00	CR36 SS	36	12/24	0.6-2.7	440x715x255	-
50.826.30 New	DR49 SS CT	49	12/24	-	400x502x520	-
50.826.31 New	DR65 SS CT	65	12/24	-	470x526x525	-
50.826.17**	DR70 SS	70	12/24	0.55-3.5	627x724x444	-
50.826.07	DR85 SS	85	12/24	1-4	495x545x625	**50.934.24**
50.826.01	DR105 SS	105	12/24	1.2-5	520x590x520	-
50.826.08	DR130 SS	130	12/24	2-5	545x545x745	-

* *White door*

** *With remote compressor P=580*

50.826.30/31

50.826.30/31


50.826.17

50.826.07-08

ISOTHERM Drawer stainless steel refrigerator/freezer

Series of refrigerator/freezer appliances with stainless steel front opening drawer and stop. With Secop compressor (12/24 V universal voltage).

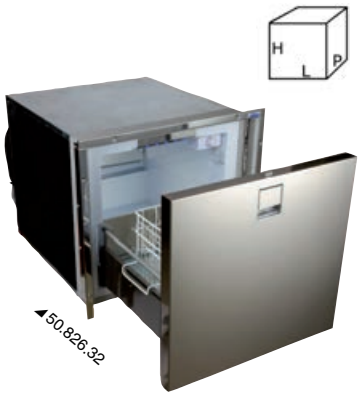
Code	Model	Description	Power V	Capacity l	⟷ cabinet LxDxH mm	OPTIONAL SS finishing frame on 4th side
50.826.06	DR55 SS Freezer	Drawer freezer, 55-l volume, automatic defrosting	12/24	55	470x520x540	**50.934.23**
50.826.18	DR70 SS Freezer	Drawer freezer, 70-l volume	12/24	70	611x724x444	-
50.826.19*	DR70 SS Freezer/ice maker	Drawer freezer, ice maker included, 70-l volume	12/24	70	611x786x444	-
50.826.32 New	DR100 SS fridge	Drawer fridge, 100-l volume	12/24	100	546x778x501	-
50.826.11	DR160 SS fridge/fridge	Double-drawer ventilated fridge (95 + 65 l), light in the upper drawer, mechanical thermostat. BD50 compressor.	12/24	95+65	625x545x865	**50.934.25**
50.826.12	DR160 SS fridge/freezer	Fridge (95 l, upper drawer), freezer (65 l, lower drawer). Mechanical thermostat. Light in the upper drawer. BD80F compressor.	12/24	95+65	625x545x865	**50.934.25**

* *Available upon request*

50.826.11/12

50.826.06

50.826.18/19



50.826.32

ISOTHERM Cruise 90 Classic and Cruise 90 Inox freezer

Extra-thick insulation for excellent cooling performance and low current draw.
Fitted with built-in compressor.
Current draw: 550 W/24h.

Code	Model	Description	Flow l	V	⟷ LxPxH mm
50.839.00	CR90 Freezer classic	Door with safety lock and magnetic rubber seal	90	12/24	527x520x746
50.827.23	CR90-F-CT	SS front panel with touch finish. Fitted with recess fit SS fastening flange and door flush with the flange. Flush snap lock.	90	12/24	545x565x750

50.839.00

50.839.00

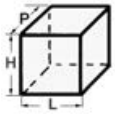
50.827.23

50.827.23

ISOTHERM 130-l refrigerator with stainless steel front panel

Fitted with a flush-mount stainless steel flange, it allows installation of the door with a flush appearance. Flush snap lock.

Code	Model	Volume l	V	Current draw A	⟷ mm		
					L	P	H
50.827.14	CR130 DRINK SS	130	12/24	1.4/5.2	545	545	755



ISOTHERM drawer refrigerator

Fitted with stainless steel rails and black or silver painted stainless steel door.
Elegance line and user-friendly digital display.
Silent and high-efficiency BD 12/24V 1.4F Secop compressor.
Easy Fix system.

Code	Model	Volume l	V	Current draw W/24 hours	⟷ mm	Colour	OPTIONAL frame for external mounting
50.826.09	DR16	16	12/24	160	250x380x540	Silver	**50.934.26**
50.826.14	DR30	30	12/24	270	260x440x700	Silver	**50.826.24**
50.826.15	DR30	30	12/24	270	260x440x700	Black	**50.826.25**
50.826.16	DR30	30	12/24	270	260x440x700	White	**-**

50.826.09

50.826.14

50.826.24

50.826.25

50.826.14

50.826.15

50.826.16

Drawer series recess-fit finish frame

Code		Series	Version	For l	Inside dimensions (fixing) mm	Outside dimensions (look) mm	Sides
50.934.22		Drawer	Satin-finish SS	49	-	-	4° (lower part)
50.934.23		Drawer	Satin-finish SS	55	456	508	4° (lower part)
50.934.24		Drawer	Satin-finish SS	85	481	530	4° (lower part)
50.934.25		Drawer	Satin-finish SS	160	614	664	4° (lower part)
50.934.26	New	Drawer	Satin-finish SS	16	386	444	4 sides
50.934.27	New	Drawer	SS CT	49	384	438	4° (lower part)
50.934.28	New	Drawer	SS CT	65	452	508	4° (lower part)

ISOTHERM top-loading cooling box by Indel Webasto

Small size and high-performing, access from top lid.
Fitted with SECOP last-generation compressor.

Code	Model	Lid	Thermosts	Capacity l	V	⟷ mm	kg
50.835.00	BI16	Opens with hinge	Digital	16	12/24	384x240x557	11.9
50.835.05	BI30	Opens with hinge	Digital	30	12/24	449x724x240	18
50.835.10	BI36	Removable	Mechanical	35.5	12/24	438x585 + 125*x240	15.3

* *125-mm compressor (remote operation possible)*

Fridge/freezer Isotherm model BI29

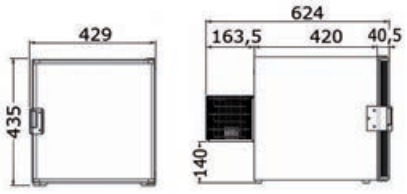
Fully removable, fitted with roller slides. Single lid for access from the top.
Stainless steel inner lining and plastic bottom. +10°/-12° C temperature.

Code	Model	Volume l	V	Consumption (W/24h)	⟷ mm	kg
50.826.02	BI29	29	12/24	250	370x340x670	18

ISOTHERM - "Cruise 40 Cubic" 40-l cockpit refrigerator/freezer

Very versatile product that can be used as refrigerator and freezer. It can be installed for front or top opening. The SECOP compressor can be radio remote controlled uo to 1.3-m distance. White door that can be covered with a panel, coating to be varied according to the customer's needs.

Code	Power V	With front door		With top door		kg
		Consumption A	Adjustable temperature range	Consumption (W/24h)	Adjustable temperature range	
50.039.00	12/24	0.186 Kwh/24 h	+10° / -12°	186	+10° / -18°	17.6
50.039.01	12/24/115/220	0.186 Kwh/24 h	+10° / -12°	186	+10° / -18°	17.6



ISOTHERM cockpit refrigerator/freezer

Fitted with **plastic** bottom, internal removable baskets, Secop compressor with 12/24 volt universal voltage.

Code	Type	Volume l	Version		Consumption W/24 h	Internal coating inox	⟷ Housing mm HxPxL
			refrigerator	freezer			
50.040.00	BI40	40	x		270	no	405x420x400+160*
50.041.00	BI41	41	x	x	270	yes	340x465+160*+500
50.042.00**	BI75	75	x		340	yes	430x470+160*x650
50.043.00**	BI92	95	x	x	360	yes	485x455+160*x805

* *Remote controlled compressor up to 1.50 meters - Sizes reduced by 160 mm.*
** *Furniture with bevelled lower part for better hull adhesion.*

► DOMETIC refrigerators

DOMETIC

Dometic refrigerator

12/24V universal voltage compressor (CRX series, 3 adjustable speeds).
1 – Double lock system: top and bottom.
2 – Separate, insulated freezer compartment (removable in CRX series).
3 – Blue LED interior lighting, infrared sensor.
4 – Built-in handle.
5 - Easy-to-replace front panel.
6 - Patented lock with two modes, "Locked" and "Vent".
7 – Standard (optional) or flush-mount (optional) installation frame available.
Precise temperature setting with NTC sensor (CRX series: setting via Touch-Control panel. Depending on the adjustment, the refrigerator can be used in different modes: fridge, fridge/freezer, freezer up to -8°).

◢ No 4 - Handle built in the door

◢ N. 6 - Patented lock: "vent" position

◢ 50.911.xx

◢ CRX 50/65 with rounded edge

◢ 50.901.xx / 50.910.xx

Code	Model	Capacity l	Door panel	Body frame	Frame	V	Average current draw W	⟷ LxPxH mm (without door)*	kg
50.910.03	CRX50	48	Silver	Silver	Silver	12/24	40	380x447x534	19
50.911.03	CRX50 INOX	48	SS	Satin-finish	SS	12/24	40	380x447x534	19
50.910.05	CRX65	64	Silver	Silver	Silver	12/24	45	448x492x525	20
50.911.05	CRX65 INOX	64	SS	Satin-finish	SS	12/24	45	448x492x525	20
50.910.07	CRX80	80	Silver	Silver	Silver	12/24	48	475x475x640	23
50.911.07	CRX80 INOX	80	SS	Satin-finish	SS	12/24	48	475x475x640	23
50.910.09	CRX110	108	Silver	Silver	Silver	12/24	50	520x505x745	28
50.911.09	CRX110 INOX	108	SS	Satin-finish	SS	12/24	50	520x505x745	28
50.910.11	CRX140	135	Silver	Silver	Silver	12/24/110/220	65	525x569x805	32
50.911.11	CRX140 INOX	135	SS	Satin-finish	SS	12/24/110/220	65	525x569x805	32

* *The door is 50-mm thick.*

Frames for WAECO COOLMATIC refrigerators

For refrigerator model	Flush Mount frame	Standard frame
CR50 / CRX50	**50.904.03**	**50.903.03**
CR50S / CRX50 INOX	**50.906.03**	**50.903.23**
CR65 / CRX65	**50.904.05**	**50.903.05**
CR65S / CRX65 INOX	**50.906.05**	**50.903.25**
CR80 / CRX80	**50.904.07**	**50.903.07**
CR80S / CRX80 INOX	**50.906.07**	**50.903.27**
CR110 / CRX110	**50.904.09**	**50.903.09**
CR110S / CRX110 INOX	**50.906.09**	**50.903.29**
CR140 / CRX140	**50.904.11**	**50.903.11**

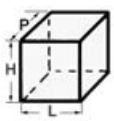
◢ 50.903.xx - Standard built-in frame

◢ 50.904.xx - Flush-mount frame

CoolPower

CoolPower MPS 35 is a mains adapter for connection of 12-/24V cooling appliances to 110-240V mains systems. 24V output voltage. Suitable for all DOMETIC cooling appliances with SECOP BD35F compressor. Ideal for permanent installation. 230V priority circuit.

Code	Power w/Ah	⟷ mm (LxHxP)
50.820.00	75/3	115x55x160



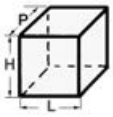
DOMETIC drawer fridge

12/24V compressor drawer fridge.
The cooling unit can be fitted up to 1.5 m away in case of limited depth. Stainless steel front.

Code	V	Volume l	Temperature range	W	⟷ mm		⟷ depth mm	
					width	height	with compressor	without compressor
50.913.20	12/24	20	0° + 15°	36	438	250	565	422
50.913.30	12/24	30	-2° + 12°	36	440	250	730	560

50.913.40 *Stainless steel frame for mounting of the 20- and 30-l version.*

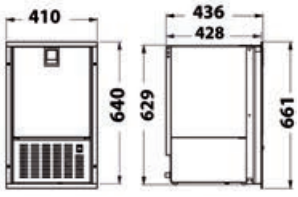
► Ice-makers



Indel Webasto Marine ISOTHERM Ice Drink Clear ice maker

100% stainless steel body, 18 kg/day ice production, spray technology delivering clear ice. The ice maker can be plugged either directly to the boat system or to a dedicated external system by means of an optional tank (item 50.840.01 to be ordered separately).

Code	V	Current draw A-h	⟷ H x L x P mm	kg
50.840.00	220V (110V available upon request)	1.4	582x353x405	28

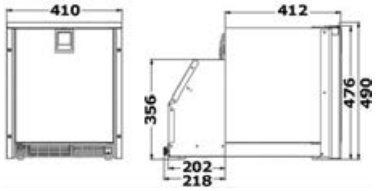


ISOTHERM White Ice stainless steel ice maker by Indel Webasto Marine

100% stainless steel, 8 kg/day ice production.
Unique design and possibility of partial flush mounting with a complete frame or on 3 sides (lower flange to be bought separately). Ideal for applications at elevated external temperatures since the unique ventilation system pulls air in through the front. 180W power consumption and variable dimensions depending on the use of flanges. It is recommended to leave a 5-mm space on the ice maker rear part for water draining and relating connections.
Weight: 29 kg.

Code	⟷ mm		V
	with flange	without flange	
50.840.04	640*x410x436	629x375x428	220

* *With lower flange upon request height is 661 mm.*

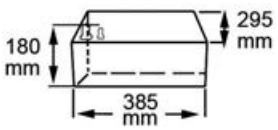


ISOTHERM Low Profile White Ice maker by Indel Webasto Marine

Having the same characteristics of the White Ice model, the Low Profile version is very flexible in terms of installation. The rear motor unit allows for installation in a location with lower height dimensions such as in external cockpits. The elegant and practical stainless steel frame is ideal for any boat, even small ones. 8 kg/day ice production. 180W absorption. It is recommended to leave a 5-mm space on the ice maker rear part for water draining and relating connections.
Weight: 29.5 kg.

Code	⟷ mm		V*
	with flange	without flange	
50.841.00	490x410x630	476x372x630	220

* *110V upon request.*



ISOTHERM by Indel Webasto kit for the ice maker to be independent from the water supply.

50.840.01 It taps water from a separate container. Weight of the empty tank: 4 kg.

► WC, toilet and accessories

THETFORD Porta Potti portable toilet

Portable toilet that doesn't have to be connected to a drainage or water system.
Revolutionary design, optimum quality and functionality.
The toilet consists of two sections: the upper section is a combined flush-water tank and toilet bowl, the lower section is the waste-holding tank.
White and grey.

Code	Model	Upper tank		Outer dimensions AxLxP mm	kg	Deck planking fixing kit (option)
		Litres	Litres			
50.217.05	Porta Potti Qube 145	15	12	330x383x427	3.6	-
50.217.06	Porta Potti Qube 165	15	21	414x383x427	3.9	**50.217.50**

Manual toilet unit

Very sturdy, low modern line; can be installed above or below the water level line, fitted with 19-mm (3/4") inlet and 38-mm (1" 1/2) outlet pipe.
The pump can be mounted on the right or on the left. **With pump removable from the top**.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	Bowl	Board	Model	⟷ mm			kg
				height	width	depth	
50.207.50	white porcelain	white lacquered wood	space saver	305	450	425	10
50.217.30	white porcelain	soft close plastic	space saver	285	450	425	10
50.207.25	white porcelain	white lacquered wood	compact	345	450	425	10.5
50.217.25	white porcelain	soft close plastic	compact	340	450	425	10.5
50.206.25	white porcelain	big soft close plastic	big	340	470	490	10.5
50.207.27	mirror-polished stainless steel	soft close plastic	compact	340	450	425	6.5

50.207.41 *Complete spare pump (new type with opening from the top "YEAR 2000")*
50.207.19 *Seal spare kit*

Complete spare pump for manual toilets

Also compatible with WC Jabsco, SPX Johnson, TMC.

Model since 2000, removable from the top (picture)	For WC
50.207.41	**50.207.25; 50.207.27; 50.206.25; 50.217.25**

RM69 ultra-lightweight manual toilet

Made of ABS, very compact and lightweight.
The pump can be mounted on the right or on the left.
20-mm inlet tube and 38-mm outlet tube.
Bayonet-mount of the bowl on the base, easy disassembling for cleaning purposes.

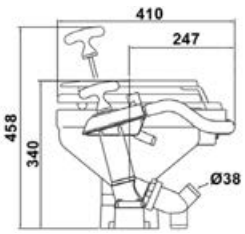
Code	Bowl	Board	⟷ mm			kg
			height	width	depth	
50.207.48	ABS	ABS	350	440	420	3.2

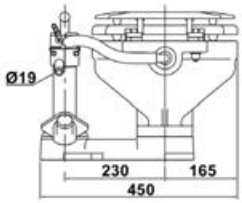
JABSCO manual toilet

Vitreous china bowl, wooden seat. Pump with lock/unlock system against syphonic flooding. 3/4" (19 mm) inlet hose, 1" 1/2 (38 mm) outlet hose.

Code	⟷ mm	kg
50.224.00	450x410x340 (H)	9.3

50.224.03 *Service kit with valve*
50.224.04 *Complete pump assembly*
50.207.28 *Wooden board*





Electric toilet unit

Fitted with **bronze** self-priming pump and neoprene rotor. Push-button operated, permanent-magnet motor and **stainless steel** shaft, built-in macerator. White seat and cover. 19-mm (3/4") inlet pipe and 25-mm (1") outlet pipe. Control panel INCLUDED.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	Bowl	Board	Model	volt	ampere	⟷ mm			kg
						height	width	depth	
50.207.13	white porcelain	Soft close plastic	space saver	12	15	340	345	420	14
50.205.13	white porcelain	White lacquered wood	space saver	12	15	340	345	420	14
50.207.12	white porcelain	Soft close plastic	compact	12	15	370	345	420	14.5
50.207.24	white porcelain	Soft close plastic	compact	24	7.5	370	345	420	14.5
50.205.12	white porcelain	White lacquered wood	compact	12	15	370	345	420	14.5
50.205.24	white porcelain	White lacquered wood	compact	24	7.5	370	345	420	14.5
50.206.12	white porcelain	Big soft close plastic	big	12	15	385	365	490	14.5
50.206.24	white porcelain	Big soft close plastic	big	24	7.5	385	365	490	14.5
50.211.12	stainless steel	White lacquered wood	compact	12	15	360	345	400	7.5
50.211.24	stainless steel	White lacquered wood	compact	24	7.5	360	345	400	7.5

50.207.23 *Gasket kit for electric toilet unit.*

Evolution electric toilet unit

LOW NOISE Fitted with special self-priming pump reducing by 80% the typical noise of electric toilets.
Permanent magnet motor, built-in macerator.
19-mm (3/4") inlet hose, 25/38-mm(1"-1" 1/2) outlet hose. Control panel included.
White ceramic bowl, technopolymer Soft Close seat.360° adjustable drain fitting.

Code	V	A	Model	⟷ mm		
				Height	Width	Depth
50.245.12	12	15	Space Saver	335	330	420
50.246.12	12	15	Compact	385	330	420
50.246.24	24	8	Compact	385	330	420

50.207.14 *Seal kit*

◢ 50.246.12/24

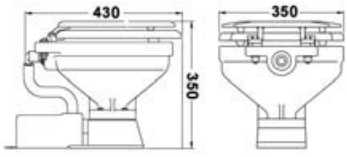
◢ 50.245.12

JABSCO electric toilet

White vitreous china bowl, wooden seat. Push button switch included. 19-mm inlet hose, 25-mm outlet hose. Self-priming pump up to 1.2 m. It can be installed up to 90 cm below the waterline.

Code	volt	Fuse	⟷ mm	kg
50.225.12	12	25A	350x430x350 (H)	15.4
50.225.24	24	15A	350x430x350 (H)	15.4

50.225.00 *Service kit with impeller, seals and O rings.*
50.207.28 *Wooden board*



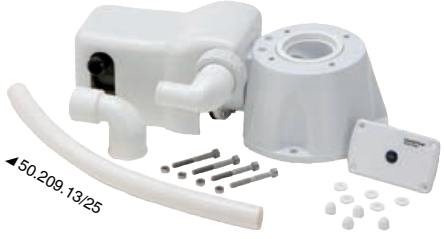
Toilet conversion kit, from manual to electric operation

For manual toilet units models **50.206.25, 50.207.25/27, 50.217.25/30, 50.207.50.** The kit includes: base, pump and electric motor compatible with toilet units by **JABSCO, SPX, RARITAN, GROCO.**

◢ 50.209.12/24

12 V	24 V	Version
50.209.12*	**50.209.24***	**Classic** with rubber suction impeller
50.209.13**	**50.209.25****	**Evolution** using the mechanical parts of toilet units 50.245.12; 50.246.12/24

* **50.209.90** *Spares impeller and seal.*
** **50.207.14** *Spares impeller and valves.*

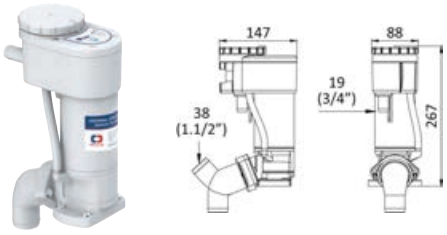


◢ 50.209.13/25

Kit for converting manual or electric toilet units SILENT type

For converting traditional manual or electric toilet units (50.205../50.206.. / 50.207.. / 50.211.. / 50.217.. / JABSCO / RARITAN / RN69 / etc..) in vacuum toilet units. **the kit includes**: the base pump unit and the electric control panel, as all vacuum toilet units, self-priming pumps 16.193.12-24 and any electro-valves 50.203.10-11 are sold separately.

12 volt	24 volt	Self priming pump OPTIONAL	electro-valve OPTIONAL
50.212.12	**50.212.24**	**16.193.12; 16.193.24**	**50.203.10; 50.203.11**



Manual-to-electric toilet conversion kit

To be used on JABSCO toilets 50.224.00 + old models and on Osculati, Matromarine, Jhonson pump, Ocean Technologies toilets and other brands such as 50.206.25; 50.207.25/27/50 and 50.217.25/30. Complete support that replaces the manual pump. Inlet/outlet pipes shall not be replaced. Operation under and above the waterline.

Code	V	Flow l/min	Fuse	⟷ mm
50.205.32	12	18.9	20 A	260x90x150

JABSCO

◢ 50.225.30

JABSCO electric toilet conversion kit 50.224.00

It directly replaces the manual pump assembly. Inlet/outlet hoses remain the same.
For use above or below waterline.

Code	V	Fuse	⟷ mm
50.225.32	12	25 A	270x90x150

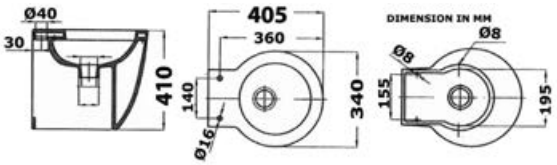
50.225.30 *Service kit with impeller, seal and O rings.*

SLIM electric toilet

High-quality **ceramic** bowl and **soft close plastic** board. Permanent-magnet motors and stainless steel shaft. 19-mm (3/4") inlet pipe and 25-mm (1") or 38-mm (1" 1/2) outlet pipe.
Version with built-in **suction pump + centrifugal grinder**. Control panel INCLUDED.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	V	A	⟷ mm			kg
			height	width	depth	
50.214.12	12	19	410	340	405	16
50.214.24	24	10	410	340	405	16

50.209.80 *Seal kit*



◢ 50.213.01/02

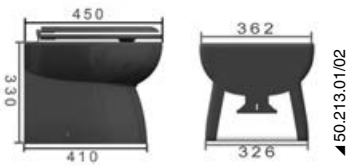
◢ 50.213.03/04

Faired electric toilet unit with white porcelain bowl

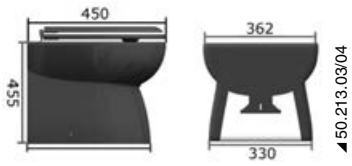
Built-in self-priming pump, with water and liquid **suction/draining/macerator** functions. 19-mm (3/4") suction pipe, 25-mm (1") outlet. Control panel INCLUDED.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Supply		Version	Board	Control panel OPTIONAL
12 V	24V			
50.213.03	**50.213.04**	HIGH	Duroplast soft close	**50.207.07; 50.207.08; 50.207.09**
50.213.01	**50.213.02**	LOW	Duroplast soft close	**50.207.07; 50.207.08; 50.207.09**

50.209.80 *Seal kit*



◢ 50.213.01/02



◢ 50.213.03/04

Chromed brass bidet unit

It fits any type of boat toilet unit in our catalogue except those with SoftClose plastic cover board. Mounting between ceramic bowl and seat cover board, using the existing pins on the board.

Code	Description
50.201.10	Version with 1 tap, only for cold water
50.201.11	Version with 2 taps,for cold + hot water

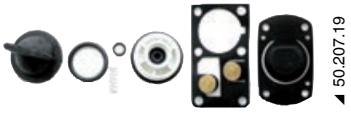
Toilet installation kit

Includes thru-hull scoop strainer, skin fitting, 2 hose adaptors and 2 sphere gate valves.

Code	For toilet type	Brass ball valve	Brass thru-hull scoop strainer	Hose	Composition
50.205.02	Manual	1/2" + 1"1/4	1/2" + 1"1/4	1"1/4 x 39 mm + 1/2" x 20 mm	17.228.02+17.228.05+17.198.09+17.198.18+17.321.81+17.321.84
50.205.03	Electric	1/2" + 1"1/4	1/2" + 3/4"	3/4" x 25 mm + 1/2" x 20 mm	17.228.02+17.228.03+17.198.09+17.198.12+17.321.81+17.321.82

Gasket kit and spare valves

Code	Description
50.207.19	For PAR hand toilets (last type, pump to be disassembled from top) and for toilets 50.207.25; 50.217.25, model "YEAR 2000"
50.207.26	For toilets 50.207.25; 50.217.25, **old models** up to 1999
50.207.14	For electric toilets 50.245.12; 50.246.12/24; 50.209.13/25; 50.212.12/24
50.207.23	For electric toilets 50.207.13; 50.205.13; 50.207.12/24; 50.207.12/24; 50.206.12/24; 50.211.12/24; 50.209.12/24
50.209.80	For electric toilets 50.213.03/04; 50.213.01/02; 50.215.01/02



◢ 50.207.19

◢ 50.207.26

◢ 50.207.14

◢ 50.207.23

◢ 50.209.80

New Osculati toilet spares and similar items

Code	Description	For toilet
50.290.14	25-mm straight outlet fitting	Electric
50.209.15	25-mm 90° outlet fitting	Electric
50.207.16	Bowl water inlet kit	Manual/electric

◢ 50.209.14

◢ 50.207.16

Spare porcelain

Code	For toilet bowl
50.207.36	**50.207.12; 50.207.24; 50.207.25; 50.205.12; 50.205.24; 50.217.25; 50.212.01; 50.212.02**
50.207.37	**50.207.50; 50.217.30; 50.207.13; 50.205.13**
50.207.44	**50.206.12; 50.206.24; 50.212.03; 50.212.04**
50.207.45	**50.214.12; 50.214.24; 50.215.01; 50.215.02**
50.207.56	**50.216.01; 50.216.02; 50.213.01; 50.213.02**
50.207.57	**50.218.01; 50.218.02; 50.213.03; 50.213.04**

WC spare boards

Code	Type	For toilet bowl
50.207.28	White lacquered wood	**50.207.50; 50.207.25 50.207.27; 50.205.12; 50.205.13; 50.205.24; 50.211.12; 50.211.24**
50.207.51	Soft Close Plastic	**50.217.25; 50.217.30; 50.207.12; 50.207.13; 50.207.24; 50.214.12; 50.214.24; 50.215.01; 50.215.02; 50.212.01; 50.212.02; 50.245.12; 50.246.12/24**
50.207.52	Large Soft Close Plastic	**50.206.25; 50.206.12; 50.206.24; 50.212.03; 50.212.04**
50.207.39	Soft Close Duroplast	**50.213.01; 50.213.02; 50.213.03; 50.213.04; 50.216.01; 50.216.02**

► TECMA electric toilet bowls

Tecma products feature ultra quiet operation, reliable systems, low consumption in terms of power and water (0.5 to 2.7 litres per cycle), fast installation and high-quality components. The product range comes in different lines and formats to suit all needs still offering the same technology and respecting the installations design restrictions.

TECMA Nano electric toilet bowl

◢ Control panel

The Nano is the shortest model on the market combining comfort, reliability and performance.
As silent as the other Tecma electric bowls, it is as short as 295 mm. Italian white ceramic, thermosetting polyester seat. Eco Rocker Switch control panel included. Fitted with solenoid to bypass the onboard plumbing. For installation with sea water inlet pump, order code 16.525.12 / 16.525.24 or similar.

Code	Model	V	⟷ mm			kg
			Height	Width	Depth	
50.228.00	Nano	12	295	370	446	17.6

TECMA Compass electric toilet bowl

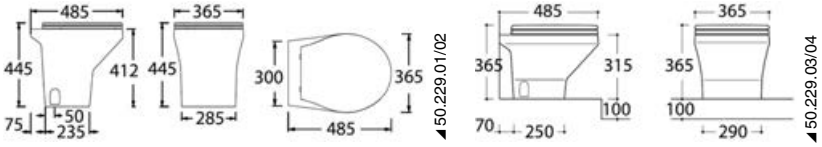
◢ 50.229.01/02

◢ Control panel

◢ 50.229.03/04

The Compass has been designed for vessels from 30' to 50' and is Tecma's entry level bowl combining reliability and performance.
As silent as the other Tecma electric bowls. Italian white ceramic, soft-close thermosetting polyester seat.
Eco Rocker Switch control panel included. Fitted with solenoid to bypass the onboard plumbing. For installation with sea water inlet pump, order code 16.525.12 / 16.525.24 or similar.

Code	Model	V	⟷ mm			kg
			Height	Width	Depth	
50.229.01	Compass High	12	445	365	485	21.5
50.229.02	Compass High	24	445	365	485	21.5
50.229.03	Compass Short	12	365	365	485	19.5
50.229.04	Compass Short	24	365	365	485	19.5



TECMA Silence Plus 2G electric toilet bowl

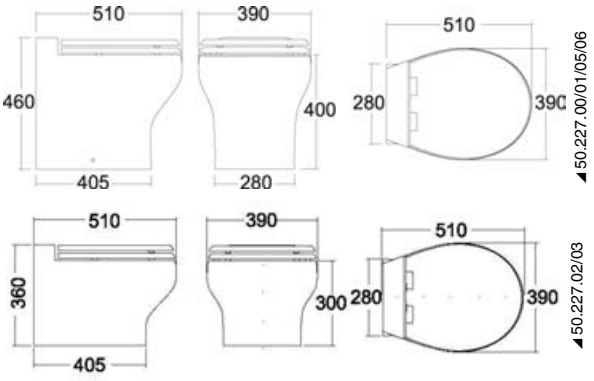
◢ 50.227.00/01/05/06

◢ 50.227.02/03

The Silence Plus is the 'big bowl' model. The length of 51 cm / 20.1 inches creates the at-home seating feeling.
Italian white ceramic, soft-close thermosetting polyester seat.
All in One control panel (50.226.50) included.
Fitted with solenoid to bypass the onboard plumbing. For installation with sea water inlet pump, order code 16.525.12 / 16.525.24 or similar.

Code	Model	V	⟷ mm			kg	Built-in bidet
			Height	Width	Depth		
50.227.00	Silence Plus 2G	12	460	390	510	25.5	No
50.227.01	Silence Plus 2G	24	460	390	510	25.5	No
50.227.02	Silence Plus 2G Short	12	360	390	510	23.5	No
50.227.03	Silence Plus 2G Short	24	360	390	510	23.5	No
50.227.05	Silence Plus 2G	12	460	390	510	25.5	Yes
50.227.06	Silence Plus 2G	24	460	390	510	25.5	Yes

All models can be ordered in ivory or black, and can have a built-in bidet function



◢ 50.226.50

◢ Built-in bidet

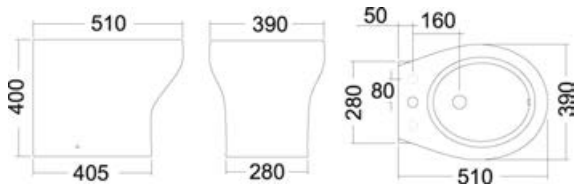
◢ Built-in bidet

TECMA Silence Plus 2G bidet

Bidet matching the Silence Plus 2G electric toilet bowls.
Made-in-Italy white ceramic bowl.

Code	Model	mm			kg
		height	width	depth	
50.227.04	Silence Plus 2G	400	390	510	16

The item can also be ordered in ivory or black.
Mixer not included

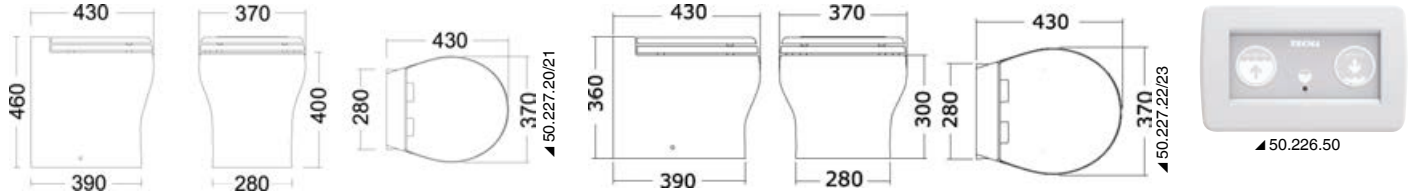


TECMA Elegance 2G electric toilet bowl

The Elegance 2G is the 'small bowl' model.
The length of 43 cm maximizes comfort within reduced spaces onboard.
Italian white ceramic, soft-close thermosetting polyester seat.
All in One control panel (50.226.50) included.
Fitted with solenoid to bypass the onboard plumbing.
For installation with sea water inlet pump, order code 16.525.12 / 16.525.24 or similar.

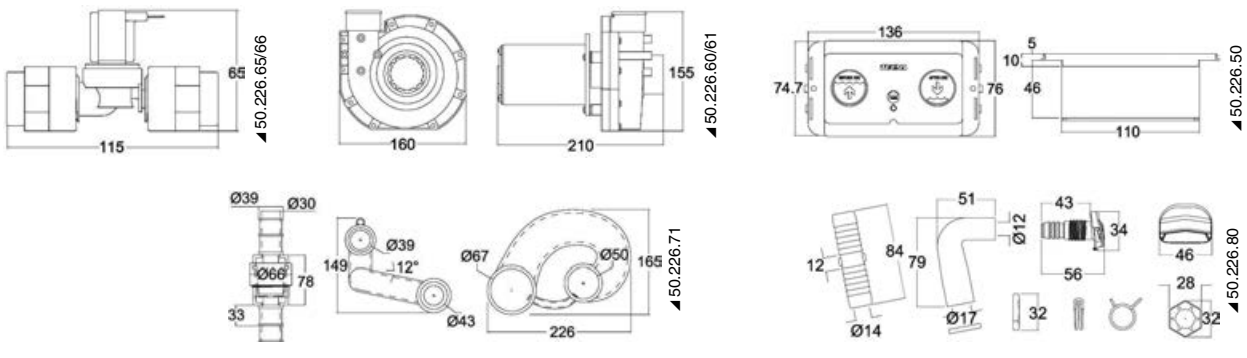
Code	Model	V	mm			kg
			height	width	epth	
50.227.20	Elegance 2G	12	460	370	430	25.5
50.227.21	Elegance 2G	24	460	370	430	25.5
50.227.22	Elegance 2G Short	12	360	370	430	23.5
50.227.23	Elegance 2G Short	24	360	370	430	23.5

All models can also be ordered in ivory or black with built-in bidet function.



Spare parts for TECMA electric toilets

Code	Description	V	For Tecma electric toilet bowls
50.226.50	All in One 2-button control panel, 2 frames (one white and one black).	-	G1 and G2
50.226.60	Macerator pump	12	G1 and G2
50.226.61	Macerator pump	24	G1 and G2
50.226.65	Plastic solenoid (it also replaces brass solenoids)	12	G1 and G2
50.226.66	Plastic solenoid (it also replaces brass solenoids)	24	G1 and G2
50.226.71	Seal and valve kit	-	G1 and G2
50.226.80	Clean water inlet kit (white)	-	G1 and G2

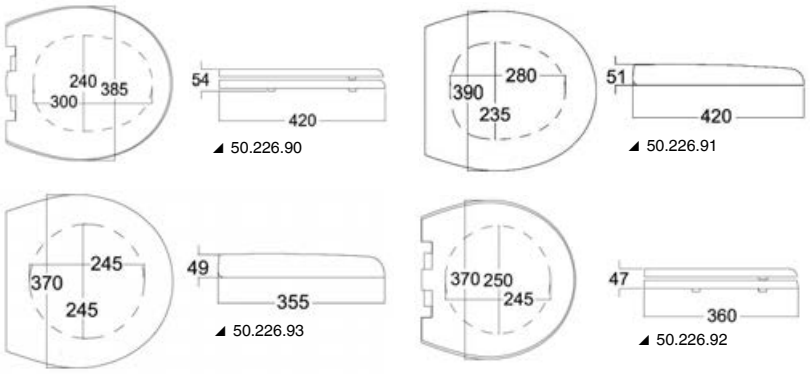


TECMA

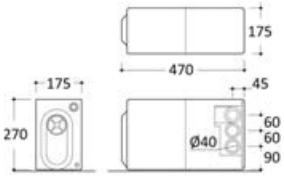
TECMA spare seat cover for electric toilets

Seat covers compatible with several generations of Tecma toilet bowls.
White colour, soft close system.
Two versions available:
A. With wooden core coated in polyester and fitted with stainless steel hinges.
B. Thermosetting plastic (lightweight version that hides the seat).

Code	Material	Hinges	Depth cm	For Tecma electric toilet bowls
50.226.90	Wood and polyester	316 SS	42	Silence Plus (G1 and G2)
50.226.91	Thermosetting plastic	Plastic	42	Silence Plus (G1 and G2)
50.226.92	Wood and polyester	316 SS	36	Elegance (G1 G2)
50.226.93	Thermosetting plastic	Plastic	35.5	Elegance (G1 G2)



TECMA



TECMA Sanisplit NK grey water transfer systems

Grey water transfer system for increased installation flexibility of washbasins, bidets, washing machines and dishwashers on board.
This system grinds and pumps waste into the collection tank. No clogging.
Efficient and rugged macerating pump.
Silent operation: the silent pump operation combined with the internal rubber tank reduce the sound level
Easy to service: the removable part of the Sanisplit, containing the pump and the pressure switch, can be rapidly disengaged from the fixed parts.

Code	V	⟷ mm	Pipe Ø mm		kg
			delivery	intake	
50.260.24	24	270x470x175	1x40	2x40	8
50.260.22	220	270x470x175	1x40	2x40	8

► SILENT ELECTRIC TOILETS

Electric toilet, with automatic load and waste. Very quiet operation. It needs 1 to 5 litres of water for every washing cycle. High-capacity centrifugal grinder to prevent clogging. Built-in Water Lock and anti-siphon valve. Designed to be connected to waste water tanks. Possibility of series mounting with a single pump and several solenoids. High-quality **ceramic** bowl. **Soft close plastic** board. Designed for "bidet kit" (except models 50.212.01-02-03-04). 38-mm Ø outlet.
Supplied with control panel 50.204.42.

WC SILENT Space Saver - low bowl

SoftClose board. Control panel INCLUDED.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	V	⟷ mm	Self-priming pump for sea water suction OPTIONAL	Electro-valve * OPTIONAL
50.210.12	12	330x420x360h	**16.525.12**	**50.203.10**

* *OPTIONAL Electro-valve to connect suction to the onboard circuit.*

WC SILENT Compact - standard bowl

SoftClose board. Control panel INCLUDED.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	V	⟷ mm	Self-priming pump for sea water suction OPTIONAL	Electro-valve * OPTIONAL
50.212.01	12	330x420x390h	**16.525.12**	**50.203.10**
50.212.02	24	330x420x390h	**16.525.24**	**50.203.11**

* *OPTIONAL Electro-valve to connect the water intake to the W.C.*

WC SILENT Comfort - big bowl

Control panel INCLUDED. Soft close board.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	volt	⟷ mm	Self-priming pump for water suction OPTIONAL	Electro-valve * OPTIONAL
50.212.03	12	365x460x385h	**16.525.12**	**50.203.10**
50.212.04	24	365x460x385h	**16.525.24**	**50.203.11**

* *OPTIONAL Electro-valve to connect the water intake to the W.C.*

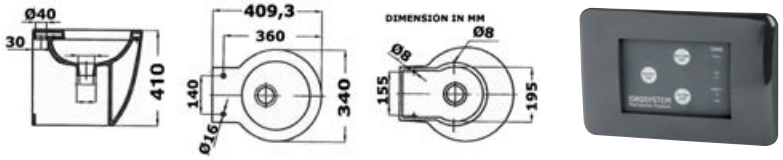
WC SILENT Slim

Version with sole built-in centrifugal grinder. Very silent, minimum water consumption.
Control panel INCLUDED.
Spray Nozzle washing fitting for faster and more effective cleaning at very high pressure on all the toilet bowl surface.

Code	V	A	Cycle	⟷ mm			kg	Self-priming pump for sea water intake OPTIONAL	Electrovalve * OPTIONAL
				height	width	depth			
50.215.01	12	8	Automatic	410	340	409.3	16	**16.525.12**	**50.203.10**
50.215.02	24	4	Automatic	410	340	409.3	16	**16.525.24**	**50.203.11**

* *OPTIONAL Electro-valve to connect the water intake to the W.C.*

50.215.01; 50.215.02 *OPTIONAL Automatic cycle: equipped with electric panel 50.204.42 for water suction, cleaning and automatic draining.*



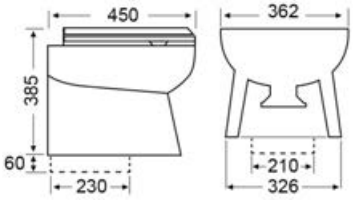
WC VACCUM BLUE WAVE Low Elegant model with SILENT 80-db pump

The SILENT pump reduces drain noise to as low as **80 dB,** the lowest on the market.
Control panel INCLUDED.
Spray Nozzle fitting for fast and effective high-pressure washing of the whole toilet bowl.

Code	V	Board	Self-priming pump for sea water suction OPTIONAL	Electro-valve * OPTIONAL
50.216.01	12	Duroplast Softclose	**16.525.12**	**50.203.10**
50.216.02	24	Duroplast Softclose	**16.525.24**	**50.203.11**

* *Electrovalve to be placed between the loading pump and the toilet.*

50.207.39 *Spare cover board made of Duroplast SoftClose for 50.216.01: 50.216.02.*



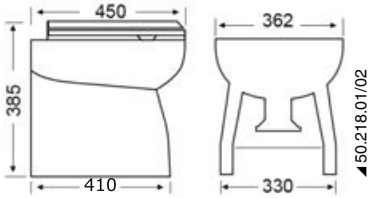
WC VACUUM BLUE WAVE Elegant high model with Silent 80 dB pump

The SILENT pump reduces drain noise to as low as **80 dB,** the lowest on the market.
Control panel INCLUDED.
Spray Nozzle fitting for fast and effective high-pressure washing of the whole toilet bowl.

Code	Board	V	Self-priming pump for sea water suction OPTIONAL	Solenoid valve * OPTIONAL
50.218.01	Duroplast Softclose	12	**16.525.12**	**50.203.10**
50.218.02	Duroplast Softclose	24	**16.525.24**	**50.203.11**

* *Electrovalve to be placed between the loading pump and the toilet.*

50.207.39 *Spare cover board made of Duroplast for 50.218.01; 50.218.02.*



WC self-priming pumps for water intake

CE It pairs fresh water pump 16.517.12/24 fitted with strainer with an art spay nozzle. 36.189.00 + 36.189.01 + 36.189.02. Ideal for deck washdown as well as cleaning of bilges, anchors, stern drive units and propellers. Strainer and 4 fittings included.

Code	Type	Volt	Capacity l/min	Joints
16.525.12	4 valves	12	17	1/2 " and 14 mm
16.525.24	4 valves	24	17	1/2 " and 14 mm

Electro-valve

Designed to be positioned between the loading pump and the toilet unit if installing more than one toilet unit with just one pump. This valve also works as anti-siphon for loading when toilet units mounted under the water level.

Code	V	Female thread
50.203.10	12	1/2"
50.203.11	24	1/2"

◢ 50.209.60/61

◢ 50.209.68/69

◢ 50.209.64/65

New generation spare pumps for WC

For Silent and traditional electric toilets.

Code	For toilet bowl
50.209.60	**50.218.01; 50.216.01**
50.209.61	**50.218.02; 50.216.02**
50.209.64	**50.215.01**
50.209.65	**50.215.02**
50.209.68	**50.214.12**
50.209.69	**50.214.24**

Electronic depth probe

Depth probe for black water tanks. Adjustable length by cutting the little rods. To match the WC control panel (50.204.42). International 5-hole standard flange.

Code	OPTIONAL To combine with control panel
50.204.33	**50.204.41; 50.204.42**

► WC control panels

Switch “toilet FLUSH”

OSCULATI

For driving electric toilet units size 15 A of any brand, **watertight**; automatic return toggle and built-in **magnetothermic** fuse.

Code	volt	Panel mm
50.207.09	12/24	80x60

Electric control panel, universal size for electric toilets

100% waterproof; fitted with protective fuse, 2 position micro-relay power and control; partial bowl filling option (aprox. 21) or full bowl (aprox 4l).

Code	volt	Board mm
50.207.07	12	110x80
50.207.08	24	110x80

Toilet unit control panel

Fitted with touch key button and LED light indicator that signals the waste water level on the respective tank, version suitable for traditional electric toilet units.

Code	⟷ mm		For WC
	frontal	overhang recess	
50.204.41	125x80	10	**50.205.12; 50.205.24; 50.206.12; 50.206.24; 50.207.12; 50.207.24; 50.213.01; 50.213.02; 50.213.03; 50.213.04; 50.205.13; 50.207.13**

Manual control panel

Manual control panel for WC SILENT series 50.212.xx / 50.216.xx / 50.213.xx /50.218.xx / 50.215.xx. Designed for those who prefer a simpler and very strong control system. Equipped with CARLINGSWITCH watertight switches. Double funtion push button: water inlet in position 1, water outlet in position 2. The second push button let the water in and out at the same time and also makes a final washing.

Code	V	⟷ mm
50.204.43	12/24	100x60

Electronic control panel

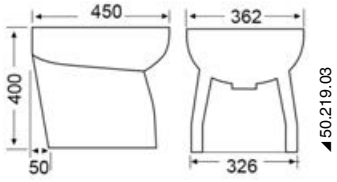
50.204.42 Standard panel supplied with all SILENT toilets. Three buttons for use: "before use", it lets water inside the bowl, "after use" for rinsing and emptying of the bowl, "short use" for rinsing and emptying with water reduced consumption. Size compatible with Vimar plates. The panel has 3 LED lights indicating the level of the collection tank when connected to the probe 50.204.33 to be ordered separately.

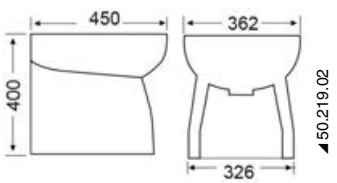
► Ceramic bidet "Blue Wave"

SILENT series ceramic bidet

Delivered without tap.

Code	Version	Rear
50.219.02	high	straight
50.219.03	high	chamfered





► Water level indicators

Waste Guardian 10-180 ohm waste water gauge

White dial White bezel	Black dial Black bezel	OPTIONAL chromed bezel	Volt	⟷ mm		
				A	B	C
27.538.01	**27.438.01**	27.455.02	12	59	52	45
27.538.02	**27.438.02**	27.455.02	24	59	52	45

Blackwater gauge

Black dial, black bezel	Black dial, glossy bezel	White dial, glossy bezel	Signal	Volt	⟷ mm		
					A	B	C
27.320.05	**27.321.05**	**27.322.05**	10-180 Ω	12/24	57	51	45

Capacitative sensor

5-bore international flange. 10-180 ohms resistance.
Ir matches items 27.438.xx / 27.538.xx and all 10-180 Ω instruments.

Code	Length mm	For tanks h mm
50.204.82	240	260
50.204.83	280	290/300
50.204.84	380	400

Black and clear water vertical level sensors

Made of stainless steel, they have a s.s. coating avoiding dirt to enter. 5-bore international flange. 10-180 Ω frequency. Combine with our instruments 27.438.xx / 27.538.xx / 27.320.05 / 27.321.05 / 27.322.05 or all 10-180 Ω instruments.

Code	Length cm
50.202.25	25
50.202.28	28
50.202.32	32
50.202.38	38
50.202.48	48

Panel kit + black water level probe

It includes: panel with 4-LED signalling device (<1/2 - 1/2 - 3/4 - FULL) + 5-bore international flange probe preset for 15/55-cm high tanks. The probe sensors will have to be cut depending on the tank height.

Code	⟷ panel mm	Length of prewired cable	V
50.204.60	75x62	4 m	12/24

50.204.61 *4-m extension cable with male/female connectors.*

► GOBIUS level gauges

Gobius® Level Indicators

GOBIUS PRO level sensor - Bluetooth

BLUETOOTH

Sensor to be mounted on the outside of any tank whose vibrations indicate the inside level.

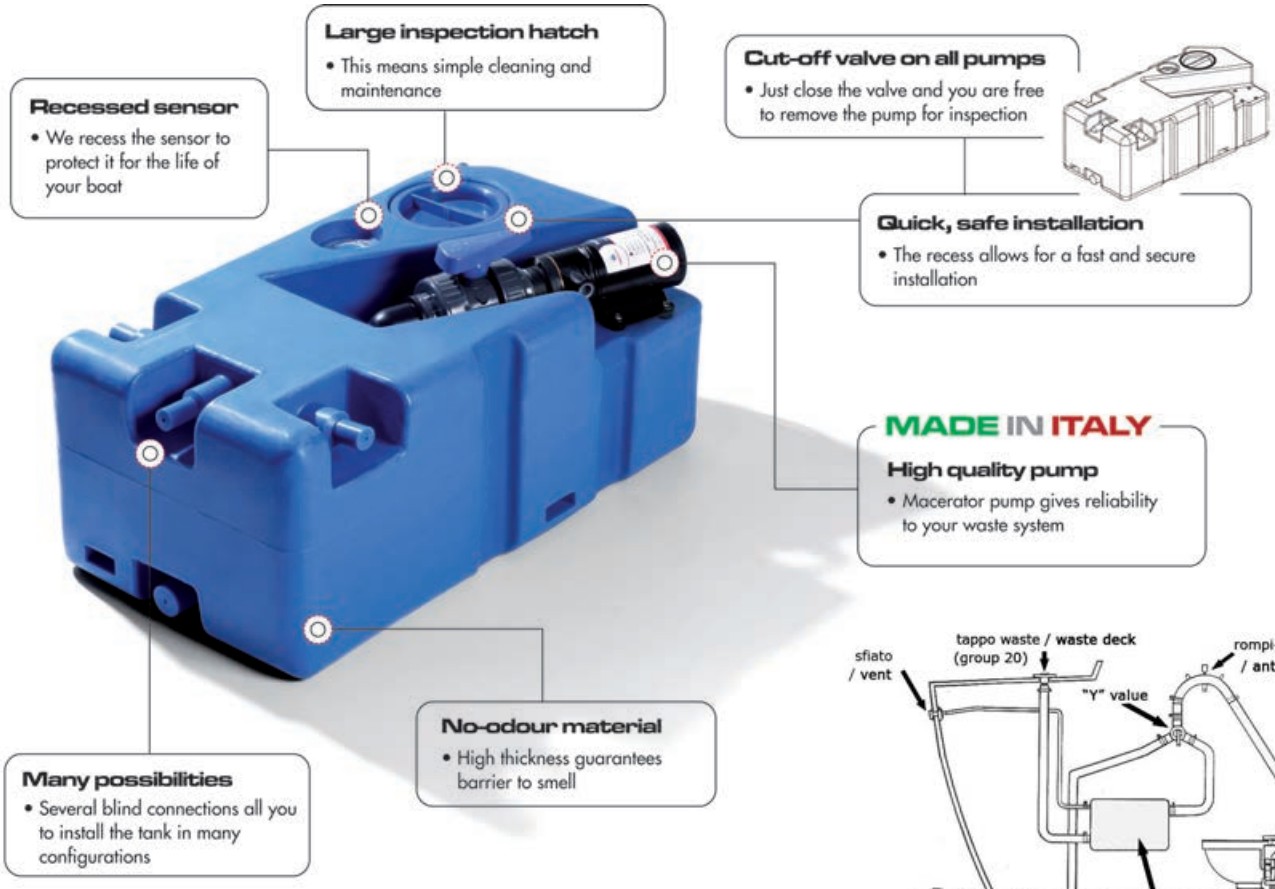
- It can be mounted on tanks of any materials.
- It works with any kind of liquid.
- Easy to install without drilling the tank (no leaks or bad smell).
- 1 to 9 sensors can be mounted on a single tank (each indicating a single step).

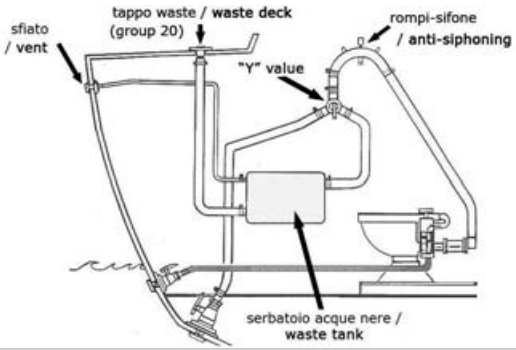
1 sensor only is recommended to indicate 3/4 waste water or water/fuel reserve.
Gobius Pro can be programmed via Bluetooth and it can be connected to a warning light, relay or buzzer.
It can be read **also via Bluetooth** (App available for download on your smartphone or other devices).

App languages: English, Italian, French, German, Norwegian, Swedish.

Code	Description	No. of sensors
27.182.01	GOBIUS PRO 1	1

► Waste water tanks





Flexible tanks for waste water

Made with a special fabric with **anti-odour** non-breathable barrier, ideal for boats that don't have waste water tanks and if wish to fit one without making difficult modifications on the bilge, supplied with outlets Ø 38 mm for filling and draining, the outlets can be mounted on the most convenient position, making sure that the tank can inflated and deflated freely.

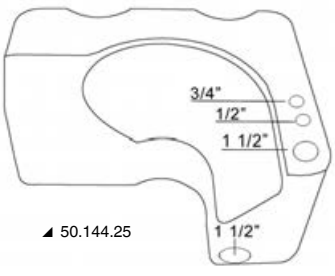
OSCULATI

Code	Volume l	Pipe unions Ø mm	⟷ cm
50.146.01	50	38	69x72
50.146.02	100	38	69x110

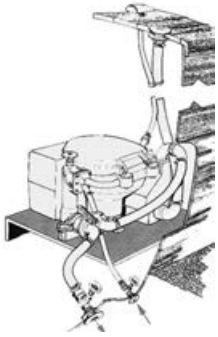
Universal waste water collection tank

OSCULATI

For mounting **around** the toilet unit, fits all existing toilet unit brands Par, Raritan, RM, Groco as well as our models 50.207.25, 50.217.25, 50.207.12, 50.205.12, either manual or electric; for a correct installation with manual or electric toilets, it requires a by pass and a draining pump; the pumps ca be removed if the draining is used with a "Waste" plug on the deck.

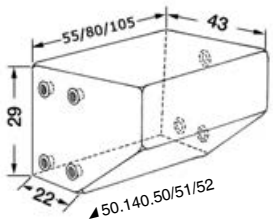


◢ 50.144.25

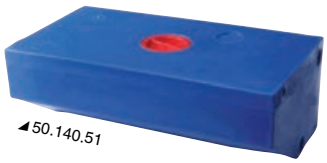


Code	Capacity l	⟷ cm			With hand WC, to complete with		With electric WC, to complete with	
		width	depth	height	pump	bypass	pump	bypass
50.144.25	26	50	40	25	50.527.00/15.268.01 or similar	50.233.38	50.527.00/15.268.01 or similar	17.229.02

50.140.50



50.140.50/51/52


50.140.51

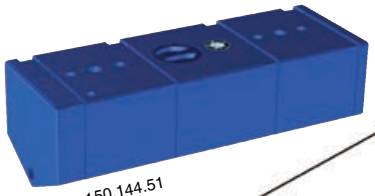
Rigid polyethylene waster water tanks

Fitted with female connectors on the two heads size 3/4" and 1 1/2" for loading, drain and vent. Thick polyethylene mouldings preventing bad smell. Certified in compliance with ISO 8099 standards.

Code	Capacity l	Base mm	Hight mm
50.140.50	50	430x550	290 with blunting for hull
50.140.51	75	430x800	290 with blunting for hull
50.140.52	100	430x1050	290 with blunting for hull
50.142.50	47	480x400	260 rectangular
50.142.51	78	700x400	300 rectangular
50.142.52	130	880x500	300 rectangular
50.142.55	215	1000x400	600
50.144.51*	86	1000x350	320 with blunting for hull

Suggested connectors: see group 52 (nylon fittings) and group 17 (metal fittings).

* *Symbols: A = 1" - B = 1"1/4 - C = 1"1/2 - D=3/4 - IS = Inspection - SDL = Level Sensor*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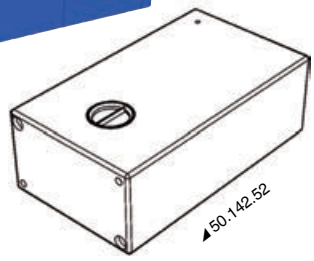
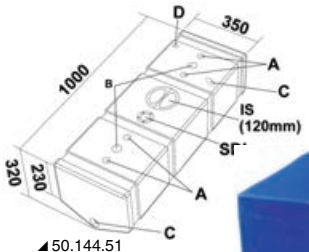
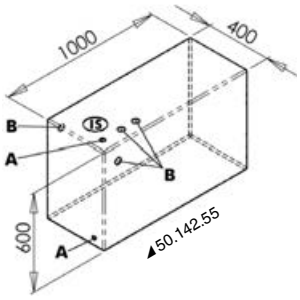

50.142.52



50.144.51

50.142.51



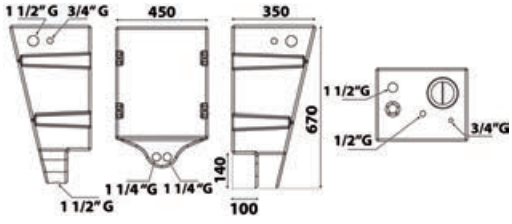
50.142.55

OSCULATI

Waste water tank, for bulkhead mounting

Designed with **gravity** draining system, no pump required, includes 3/4" - 1" 1/2 female threadings for load, 1" 1/4 female threadings for unload, vent and level indicator flange, made according with ISO 8099 standards.

Code	Capacity litres	Max length for float cm	⟷ mm
50.145.60	60	60	450 x 350 depth x 670 total height



Black water tank with horizontal soaker

OSCULATI

Sold already mounted and ready for installation. Compatible with all manual and electric WC. EQUIPPED WITH: electric soaker; 1" 1/2 + 3/4" loading female threads; 3/4" vent female threads; 1" 1/2 manual emergency drain female threads; housing for fastening hooks 52.195.00; shut-off valve for soaker drainage in case of maintenance; 5-bore flange for level sensor (sensor to order separately); protection for sensor level. Manufactured in compliance with the ISO 8099 standard.

Code	Net volume l	volt	Macerator included	Macerator outlet Ø mm	Max length for float cm	⟷ mm			SS plate for tank fastening OPTIONAL
						A	B	C	
50.147.50	40	12	**50.220.12**	25	25	500	390	300	**52.195.00**
50.147.51	40	24	**50.220.24**	25	25	500	390	300	**52.195.00**
50.147.65	60	12	**50.220.12**	25	25	650	390	300	**52.195.00**
50.147.66	60	24	**50.220.24**	25	25	650	390	300	**52.195.00**
50.147.80	80	12	**50.220.12**	25	25	800	390	300	**52.195.00**
50.147.81	80	24	**50.220.24**	25	25	800	390	300	**52.195.00**
50.147.91	105	24	**50.220.24**	25	25	1050	390	300	**52.195.00**

Recommended joint: group "52" made of nylon, group "17" made of metal

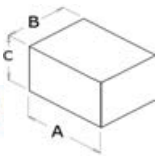
50.147.65/66

50.147.80/81/91

50.147.50/51

50.147.50/51

52.195.00



IMPROVED QUALITY

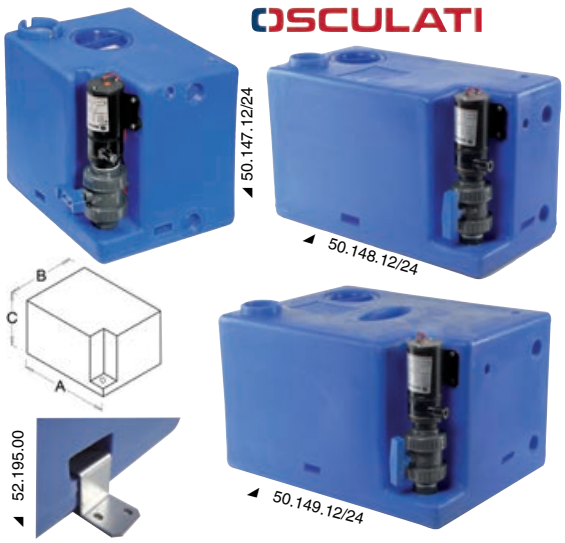
Waste water tank with in-built soaker

Ready for installation. Compatible with all electric and manual toilet systems.
EQUIPPED WITH: Electric macerator. 1" 1/2 + 3/4" load female adaptor. 3/4" unload female adaptor. 1" 1/2 back vent manual emergency female adaptor. Mounting hollows 52.195.00; Shut-off valve to detach the macerator for maintenance. 5-bore flange for level indicator (to be ordered separately). Protection for sensor level. Complying with ISO 8099.

Code	Net volume l	V	Recess D mm	Macerator model INCLUDED	macerator outfeed Ø mm	Max length for float cm	⟷ mm		
							A	B	C
50.147.12	52	12	100	**50.220.12**	25	39	450	350	400
50.147.24	52	24	100	**50.220.24**	25	39	450	350	400
50.148.12	72	12	100	**50.220.12**	25	39	650	330	400
50.148.24	72	24	100	**50.220.24**	25	39	650	330	400
50.149.12	112	12	100	**50.220.12**	25	39	650	490	400
50.149.24	112	24	100	**50.220.24**	25	39	650	490	400

Suggested connection: group "52" in nylon, group "17" in metal

52.195.00 *Stainless steel plate, tank mounting*



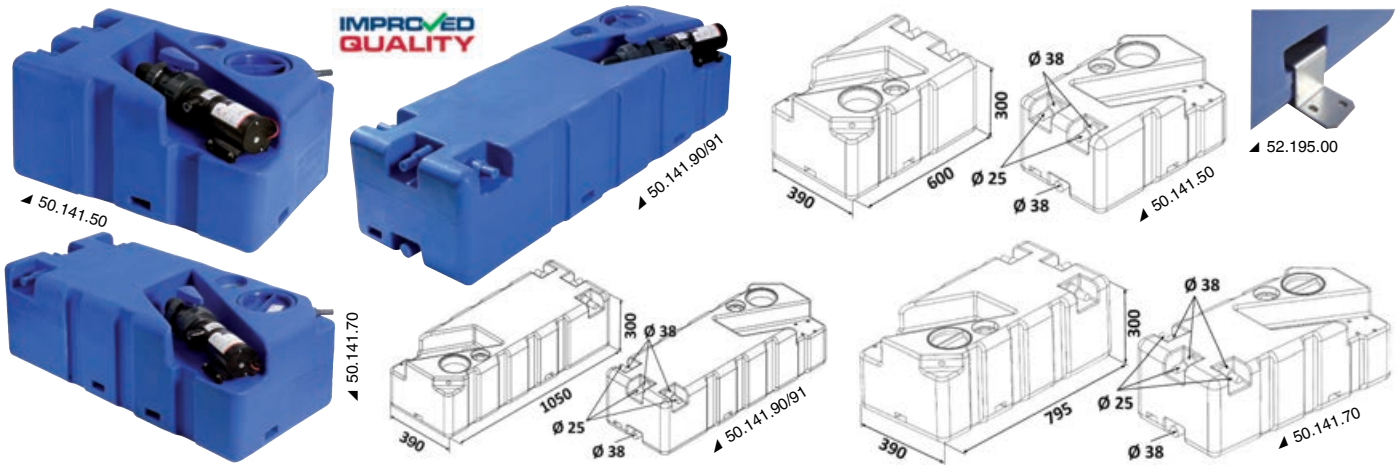
Black water tank with horizontal macerator and hose connector inlets

OSCULATI

Sold already mounted and ready for installation. Compatible with all manual and electric toilet units. FITTED WITH: electric macerator; vent with 16-mm Ø hose connector; housing for fastening hooks 52.195.00; shut-off valve for soaker drainage in case of maintenance; 5-bore flange for level sensor (sensor to order separately); protection for sensor level. Manufactured in compliance with the ISO 8099 standard.

Code	Net volume l	Macerator included	Macerator outlet Ø mm	V	Max length per float cm	SS plate for tank fastening OPTIONAL
50.141.50	50	**50.220.12**	25	12	25	**52.195.00**
50.141.70	70	**50.220.12**	25	12	25	**52.195.00**
50.141.90	91	**50.220.12**	25	12	25	**52.195.00**
50.141.91	91	**50.220.24**	25	24	25	**52.195.00**

Recommended joint: group "52" made of nylon, group "17" made of metal



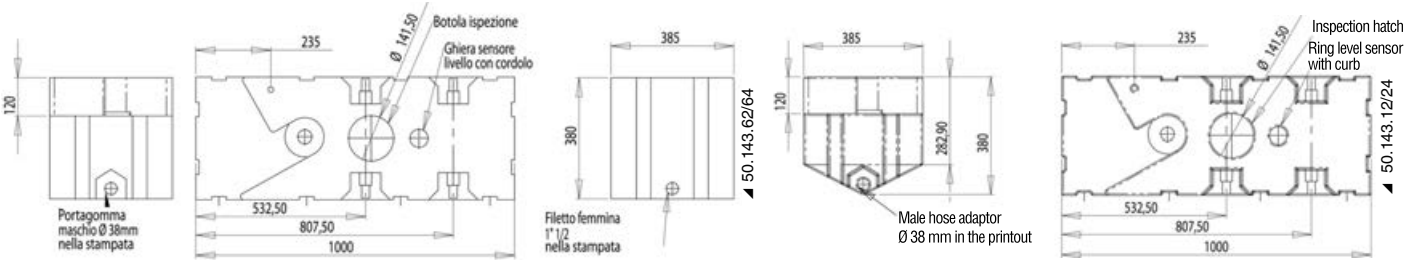
Waste water tank with built-in WHALE macerator

OSCULATI

Whale®

Pre-assembled tank with "Whale Gulper toiler" macerator 50.113.xx. The Whale unblockable and non-clog macerator doesn't have impellers. The tank is designed with inlets/outlets to hose connectors in order to avoid threaded connections as much as possible thus preventing bad smell. Equipped with: inspection trapdoor; 5-bore flange for level sensor (to order separately); sockets for fixing hooks 52.195.00 (flat bottom version). Made in compliance with ISO 8099 standards.

Code	Net volume l	volt	Macerator included	Macerator outlet Ø mm	Max length for float cm
50.143.12	100	12	**50.113.12**	38	35
50.143.24	100	24	**50.113.24**	38	35
50.143.62	115	12	**50.113.12**	38	35
50.143.64	115	24	**50.113.24**	38	35



► Macerating pumps for waste water draining

Self-priming macerator

It sucks, crush and ejects toilet waste by tapping from the waste water tank.
38-mm inlet port, 25-mm outlet port.
Intake: max 100-cm dry parts, max 125-mm wet parts.

Code	V	Flow l/min	Flow l/min with 3-m head	Consumption A	⟷ mm
50.222.13	12	45	23	9	284x121x100
50.222.14	24	45	23	4.5	284x121x100

Self-priming macerator

Useful for draining waste water tanks, inlet 38 mm, outlet 25 mm.
CE certified in compliance with EN ISO 8846 standards.

Supply		Flow l/min	Flow l/min with 3-m head	Consumption A	⟷ mm
12 volt	24 volt				
50.220.12	**50.220.24**	43	23	12/6	240x130x90
50.221.12	**50.221.24**	47	33	18/9	260x140x90

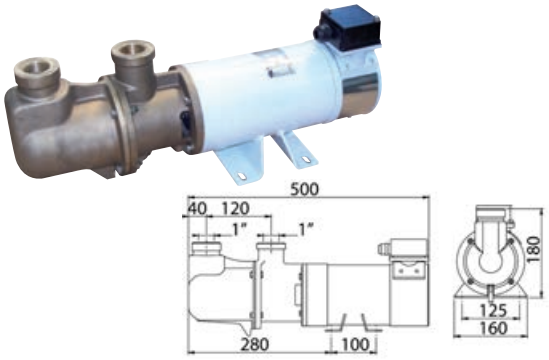
Macerating pumps for toilet units “Whale Gulper”

PATENT

It is connected to the toilet unit or to the waste water tanks, is used to drain toilet units or tanks. Virtually **unblockable**, can run dry, self priming and can be also be used with **vacuum** toilet units.
Materials: **nylon/fibreglass + Hypalon rubber + brass + stainless steel**.
Maximum suction and head of 3 metres, requires inlet/outlet pipes size 1”/1/2 (38 mm).

Code	V	Volume l/min	Consumption A	kg
50.113.12	12	18	3.5	2.120
50.113.24	24	18	1.8	2.120

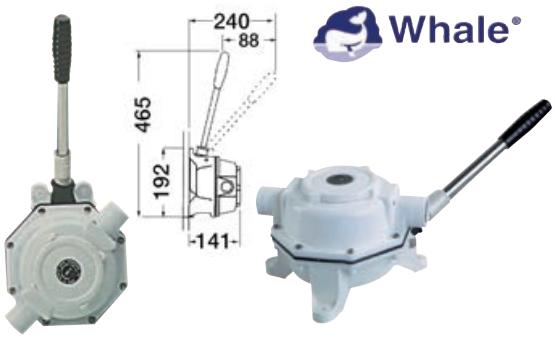
50.113.99 *Maintenance kit for Whale Gulper macerator: diaphragm, valves and screws.*
16.155.98 *Gulper 220 closing ring and screw.*



CEM Sbr self-priming electric pump with bronze single screw

Consisitng of a worm screw rotor revolving inside an NBR rubber stator. These electric pumps are used in the marine sector to drain waste boxes, toilet black waters and particularly viscous liquids with small suspended bodies.
Bronze pump body, AISI316 stainless steel shaft and rotor, AISI316 stainless steel and NBR joint, ceramic/graphite/NBR (anti-corrosion) mechanical seal.
24V permanent magnet motor, IP44 protection degree, F insulation class, continuous service (S1).

Code	Model	V	Flow l/min	Current draw A	Power		RPM	Max head m	kg
					HP	kW			
50.229.24	SBR	24	50	20	0.75	0.55	1400	50	15



Hand pump for waste water tanks WHALE

Code	Volume capacity l/min	Ø inlet/outlet
50.527.00	56	1” 1/2 (38 mm)

15.268.04 *Spare seal kit for 50.527.00 OPTION*

► Valve for waste water systems

Can be used in two ways:
1) the toilet drains into the sea or onto the waste water tank with a safety block on the lever, made in accordance with **ISO 8099 standards**
2) from the waste water tank the macerator is loaded onto the sea or dock with a back pump.

Classic valve

Made of **ABS,** ready for remote control with a push-pull cable.

Code	Ø pipes mm	⟷ mm
50.233.38	38	140x150x150

STRONG valve

Made of **nylon reinforced** with fibers, meets with ISO 8099 standards. Fitted with outlets size **38/25** mm + bulkhead extension cord that enables for non-visible handle mounting and keeps the valve hidden, the handle can be locked with a padlock.

Code	Ø pipes mm	⟷ mm
50.234.00	38/25	200x80x60

Black water tank spare valve

50.141.98 OSCULATI black water tank spare valve

Whale valve

Wall mounting or mounting behind the bulkhead.

Code	Ø pipes mm	⟷ mm
17.713.00	38	104x180
17.713.01	-	-

Whale®

Gate valve fitted with lock for waste water tanks

Made of chromed brass, **stainless steel handle** with perforated hole for fitting a padlock; ideal for meeting with ISO 8099 standards concerning waste water draining regulations.

Code	Size
17.228.55	1" 1/4
17.228.56	1" 1/2

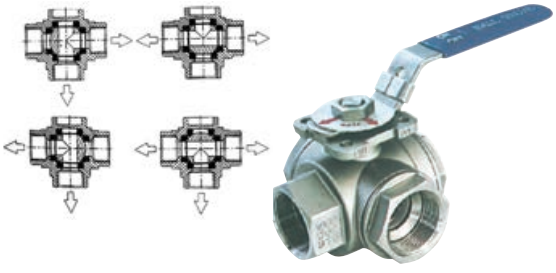
OSCULATI

3-way sphere valves

AISI 316

Made of **AISI 316 stainless steel**; fitted with handle lock, meets with ISO 8099 standard for waste water drainage regulations.

Code	Size
17.722.05	1" 1/4
17.722.06	1" 1/2



3-way ELECTRIC Y-valve

OSCULATI

Electrified valve based on the manual version 50.234.00. With ON-OFF-ON switch to start the valve from either the control panel or the cabin. Designed to be used manually in case of failure.
For pipes Ø 38/25 mm. External dimensions mm 250x180x200. Absorption 1.5 ampere 12 V.

volt	COMPLETE electric valve	Kit to electrify valve 50.234.00	Optional panel with fuse and switch
12	**50.230.12**	**50.231.12**	**50.232.00**
24	**50.230.24**	**50.231.24**	**50.232.00**

◢50.232.00

◢50.230.12/24

◢Reduction joints INCLUDED

► WC accessories and waste water tanks

"Deodorsan"

Active carbon filter for black water vents, it removes bad odours. Made of **aluminium** and **nylon**. Fitted with rubber coated **stainless steel** straps for bulkhead mounting.

Code	⟷ mm	Hose adapter
50.138.00	Ø 50 x 250	1/2" (17.236.00/01 - 17.199.08/09)

Anti-smell filter

Active carbon filter for waste water tank draining.

Code	Description	Hose adaptor mm	⟷ mm
50.136.00	complete filter	16	110 x 120
50.136.02	spare filtering element	-	

Polypropylene U-trap for toilet units

Essential for safety, when the toilet is mounted **under the water level**; supplied with vent valve.
NB: These water traps **are also suitable for onboard generator's cooling systems.**

Code	With barber mm	Type
50.203.19	19 (3/4")	load
50.203.25	25 (1")	Discharge electric WC
50.203.38	38 (1" 1/2)	discharge

Connecting joints for toilet draining

Made of polished stainless steel.

Code	Type	For hoses Ø mm
50.237.01	90° elbow, perfect for confined space	38
50.237.02	"Y" joint to connect 2 discharges	38
50.237.03	"T" joint to connect 2 discharges	38

Replaceable brush head, push-release

OCEANAIR Brush & Stow

50.207.70 Brush & Stow is a unique cleaning brush, specifically developed to tackle the challenges of marine bathrooms.

Features:
- Bulkhead mounting.
- Small brush head designed for marine toilets.
- Clip-in lid traps odours in.
- Replaceable brush head, push-release.
- Clip-in lid, to secure brush into bowl.
- Removable bowl for easy cleaning.
- Discrete and compact, perfect for any bathroom, whatever the size.

50.207.71 *Set of 3 x Brush & Stow spare heads.*

Toilet paper holder

OSCULATI

Waterproof white ABS. Designed for boat toilets where toilet paper can easily become damp or saturated due to the proximity of the shower. **Universal** model.

Code	⟷ mm
50.207.17	130x170x150 (length x height x overhang)

Toilet brush holder

OSCULATI

Made of **white ABS**, fitted with bulkhead bracket, **compact size made on purpose for the boat toilet units** available in our catalogue or equivalent foreign products (US, England, Taiwan, Holland, etc.).

Code	Height (handle included) mm	Ø mm	Overall protrusion mm
50.207.15	355	89	125

DryRoll toilet paper stand OCENAIR

50.207.80 Watertight, ideal for showers with combined WC. Long lasting moulded ABS. Paper automati re-winding and release. Hygienic and easy to clean, can be recessed mounted or fixed on the surface. Colour: RAL 9016 white.

◢ 1 - Automatic rewinding; 2 - Automatic release

OCEANair

Chem WC - Disintegrating and anti-fermentative product for chemical toilet units and waste water tanks

OSCULATI

Disintegrating anti-fermentative product, it prevents encrustations and smells in portable and fixed tanks. Super-concentrated **formaldehyde**-free solution in compliance with the regulations in force. Use: dilute 100 ml of product in 10 litres of water.

Code	Package	PACKAGE
50.208.80	1 l	6

Grey Water anti-fermentative deodorant for waste water on motor campers and boats

OSCULATI

It prevents incrustations and bad odours, does not contain formaldehyde or corrosive substances. Usage: pour 60 ml into an empty tank for every 10-litre capacity.

Code	Package	PACKAGE
50.209.00	1 l	6

Aqua Soft water-soluble toilet paper

50.210.00 Toilet paper designed for boat toilet units. It quickly dissolves when getting in contact with water thus preventing clogging and making waste-holding tank easier to empty.
6 piece package

YACHTICON WC OIL

Product based with natural oils; pour onto the toilet bowl: removes salt deposits; lubricates and cleans pump's rubber gaskets; lubricates and cleans gate valves.

Code	Bottle ml
50.610.31	100

PURITEC ecological disinfectant for toilets

Designed for installation with a special support on the toilet water draining piping line (electric or manual). Disinfects and deodorizes water from the bowl; supplied on a 100 ml container (400 washing operations). Universal hose adaptor size 15/19 mm suitable for all toilet units.

Code	Description
50.208.70	Spare screw cartridge 100 ml.
50.208.65	Complete kit

Toilet protective cleaner

Special formula device for boat's toilet units made of plastic or ceramic, removes dirt, limescale and other deposits, act as a disinfectant, protects and preserves gaskets and valves.

Code	Package ml
50.209.50	750

YACHTICON PURYCLEAN disinfectant and cleansing agent

Used to clean waste water tanks, removes bad odours and deposits, concentrated powder.

Code	Package g
50.209.52	500

YACHTICON SCHLAUCH FREI - toilet hose cleaner

Specifically formulated to clear build up inside toilet drain pipes, and eradicate offensive odours due to its anti-bacterial action.

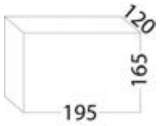
Code	Package g
50.209.53	1000

YACHTICON Pury Tabs for toilets

A simple and effective way to prevent bad smell in the toilets and to keep clean the black water tank .

Code	Package
50.209.54	15 pills 25 gr

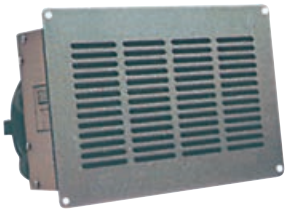
► Heaters, defrosters

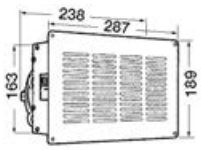


Electronic forced-air heater

Connected to the onboard power, it heats the boat in a matter of minutes. Instant heating, automatic temperature control, secure and long lasting. Control symbols: on/off - fan only - heating - fan speed.

Code	V	Consumption
50.383.00	12	300 W

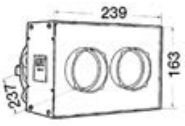




HEATER CRAFT bulkhead heater

The kit includes a heater, a 4 position panel switch, electrical cable and screws. The system exploits the engine cooling water to convey heat to the cabin. 3-speed motor, simple and fast mounting.

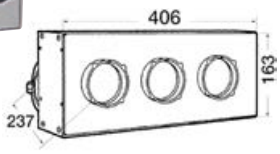
Code	V	Consumption at 3 speeds	Calorific yeld
50.263.00	12	3,9 - 5,0 - 7,7 A	28.000 BTU/hour with water volume 11 l/min at 76° and with ambient temperature 15°



HEATER CRAFT 2-outler centralized heater

Mounting is possible where needed. Two 75-mm Ø hoses connect to two adjustable outlets for bulkhead mounting. Same technical features as model 50.263.00. The kit includes a heater, a 4-position switch panel, mounting bracket, 3.6-m hose, 2 outlets, electrical cable and screws.
The system exploits the engine cooling water to convey heat to the cabin. 3-speed motor, simple and fast mounting.

Code	V	Consumption at 3 speeds	Calorific yeld
50.263.01	12	3,9 - 5,0 - 7,7 A	28.000 BTU/hour with water volume 11 l/min at 76° and with ambient temperature 15°



HEATER CRAFT 3-outlet centralized heater

Upgraded model similar to 50.263.01. Three hoses connect to three adjustable outlets. The kit includes a heater, a 4-position switch panel, mounting bracket, 5.4-m 75-mm Ø hose, 3 adjustable outlets, electrical cable and screws. The system exploits the engine cooling water to convey heat to the cabin. 3-speed motor, simple and fast mounting.

Supply		Consumption at 3 speeds	Calorific yeld
12 V	24 V		
50.263.02	**50.263.03**	4,4 - 5,8 - 8,4 A	40.000 BTU/hour with water volume 11 l/min at 76° and with ambient temperature 15°

◢ 50.263.11

◢ 50.263.08

Extra accessories Heater Craft

Code	Description	Roll length m
50.263.06	"Y" joint for air canalisation (Ø mm 75)	-
50.263.11	Flexible pipe for air conduit Ø mm 75	12
50.263.08	Orientable selvagee for air outlet Ø mm 75 **black**	-

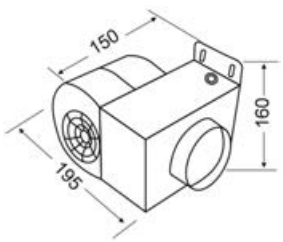
◢ 50.263.06

HEATER CRAFT

12V defroster/defogger unit

To be installed inside the control panel to defrost or defog the glass panes in wintertime.

Code	V	BTU/hr	No. of speed modes
50.264.12	12	1.706	1



► CLIMMA marine conditioners

COMPACT direct expansion air conditioning systems

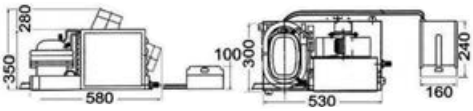
Stainless steel base and parts to ensure long duration and resistance. Supplied with **precharged monoblock** with ecological refrigerant, which does not required any specific tool for installation. Adjustable fan with horizontal or vertical air outlet. Also suitable as **air cooling systems or heaters**, 220V. Fitted with control display.

Technical features

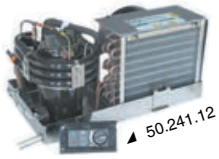
Code	Capacity Btu/h		Current draw			Nominal piping section	Air flow m³	Net weight kg
	cooler mode	heater mode	cooler mode	heater mode	start mode			
50.241.09	9,000	4,500 (electrical resistance)	3.4 A	5.6 A	21 A	100 mm/4"	260	26
50.241.12	12,000	4,500 (electrical resistance)	3.4 A	5.6 A	20 A	125 mm/5"	360	24
50.241.16	16,000	16,000 (cycle inversion)	5.5 A	6.6 A	34 A	150 mm/6"	900	40

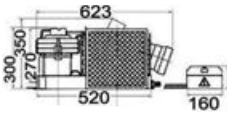
System	Btu/h	Sea water accessory kit		Air first outlet accessory kit		Air second outlet accessory kit (addition to first outlet)	
		code (optional)	parts	code (optional)	parts	code (optional)	parts
50.241.09	9.000	**50.241.50**	120W sea water pump, 1/2" thru-hull scoop strainer, chromed 1/2" skin fitting, tap, 1/2" strainer.	**50.241.20**	Suction grid (244x244 mm), pipe (6 m, 100-mm Ø), 100-mm Ø fitting, plenum, delivery grid (202x100 mm)	**50.241.25**	3-way fitting (100x100x100 mm), 100-mm Ø sealable vent,
50.241.12	12.000	**50.241.50**	120W sea water pump, 1/2" thru-hull scoop strainer, chromed 1/2" skin fitting, tap, 1/2" strainer.	**50.241.40**	Suction grid (244x244 mm), pipe (6 m, 125-mm Ø), 125-mm Ø fitting, plenum, delivery grid (302x100 mm)	**50.241.45**	3-way fitting (125x125x100 mm), 100-mm Ø sealable vent, pipe (6 m, Ø 100 mm)
50.241.16	16.000	**50.241.50**	120W sea water pump, 1/2" thru-hull scoop strainer, chromed 1/2" skin fitting, tap, 1/2" strainer.	-	-	**50.241.55**	Suction grid (354x252 mm), pipe (6 m, 150-mm Ø), 3-way fitting (150x125x125 mm), pipe (6 m, 125-mm Ø), 2 x 125-mm Ø fittings, 2 plenum, 2 delivery grids (302x100 mm)

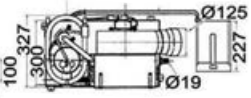
◢ 50.241.09



◢ 50.241.09

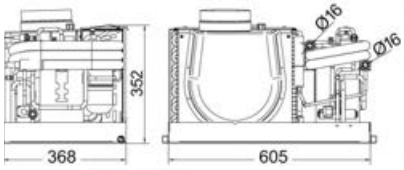

◢ 50.241.12

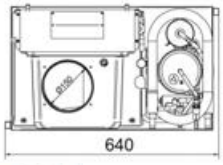




◢ 50.241.12

◢ 50.241.16





◢ 50.241.16

◢ 50.241.50 (drain plug, pump, filter, thru-hull plug, tap)

◢ 50.241.20/40
(suction, pipe, fitting, plenum, delivery)

◢ 50.241.55 (suction, 3-way fitting, pipe, fitting, plenum, delivery)

◢ 50.241.25/45
(3-way fitting, closing plug, pipe)

◢ 50.241.25 (3-way fitting, closing plug)

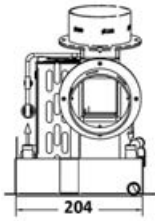
Compact direct expansion air kit

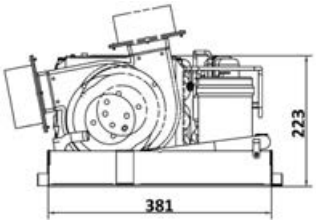
The smallest marine air conditioning system on the market. Ideal to condition the air of a small cabin. With a limited current draw, it can be installed on small vessels without a generator or a shore power connection (the installation of an optional 800W continuous min. inverter is needed). Fitted with a control display.

Technical characteristics

Code	Capacity Btu/h		Current draw			Nominal piping section	Air flow m³/h	Net weight kg
	cooler mode	heater mode	cooler mode	heater mode	start mode			
50.241.35	3.500	3.500 (cycle inversion)	2 A	2 A	5 A	100 mm/4"	230	12

Code	Btu/h	Sea water accessory kit	Air accessory kit
50.241.35	3.500	12V self-priming sea water pump, AC/12V DC power supply unit, 1/2" thru-hull scoop strainer, 1/2" chromed thru-hull scupper, tap, 1/2" strainer.	Intake grid (202x10 mm), piping (6 m, Ø 100 mm), 100-mm Ø fitting, plenum, delivery grid (202x100 mm)





SPLIT direct expansion air conditioning systems

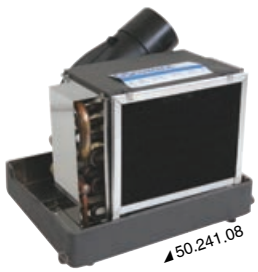
CLIMMA MARINE AIR CONDITIONING

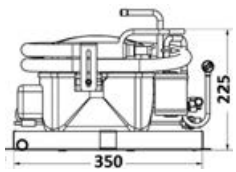
Ideal for the air conditioning of a single room or for nearby rooms, where space is a problem. In fact the system consists of two units, the compressor and the evaporator, that can be installed separately.

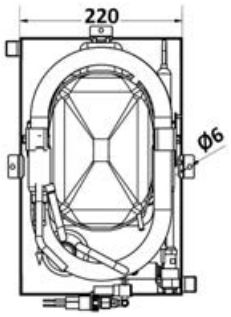
Technical features

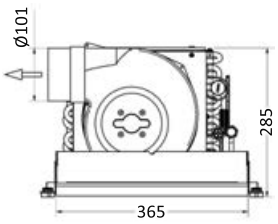
Code	Capacity Btu/h		Current draw			Nominal piping section	Air flow m^3/h	Net weight kg
	cooler mode	heater mode	cooler mode	heater mode	start mode			
50.241.08	8.000	8.000 (cycle invertion)	3.4 A	3.4 A	21 A	100 mm/4"	260	26

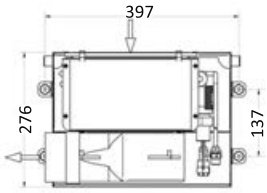
System	Btu/h	Sea water accessory kit		Air first outlet accessory kit		Air second outlet accessory kit (in addition to first outlet)	
		code	components	code	components	code	components
50.241.08	8.000	**50.241.50**	Salt water pump 120 W, 1/2" thru-hull scoop strainer, 1/2" chromed skin fitting, tap, 1/2" strainer	**50.241.20**	Intake grid (244x244 mm), piping (6 m, Ø 100 mm), 100-mm Ø fitting, plenum, delivery grid (202x100 mm)	**50.241.25**	3-way fitting (100x100x100 mm), 100-mm Ø port that can be closed


50.241.08









► MASE generators

MASE generators, VS.3 line - Variable RPM

mase GENERATORS

Last-generation variable RPM generators offering manufacturers and shipbuilders the advantages deriving from a small size and an adjustable power. The engine speed control system only generates the power required, which reduces emissions and consumption.
The W/A intercooler system ensures perfect functioning of the generator regardless of the external ambient temperature therefore the alternator and the engine work at ideal temperature optimizing the performance and reliability of the gen-set.
Engine: easy access in case of maintenance of the power and lubrication systems, of the sea water pump and of the air filter. Safety stop in case of low oil pressure. Safety stop against overtemperature of engine and exhaust gas. Easy-to-replace oil and fuel filter. Oil drain pump provided.
Alternator: permanent-magnet type.
Soundproof cabinet: frame made of lightweight coated marine aluminium panels featuring innovative design and extremely high weatherproof properties. Very good access to the inside housing for easier maintenance operations even when the genset is installed in confined places.
Cooling system: the cooling of the engine is based on a coolant closed circuit controlled by a seawater/coolant heat exchanger.
Air inside the alternator is cooled by a seawater/air heat exchanger.
This system makes cooling of alternator more effective and achieve optimal temperature for best performance and reliability of the generating set despite the room temperature of the onboard housing. Control unit: InteliNanoNT MRS 3 - (118x118mm) - IP65.

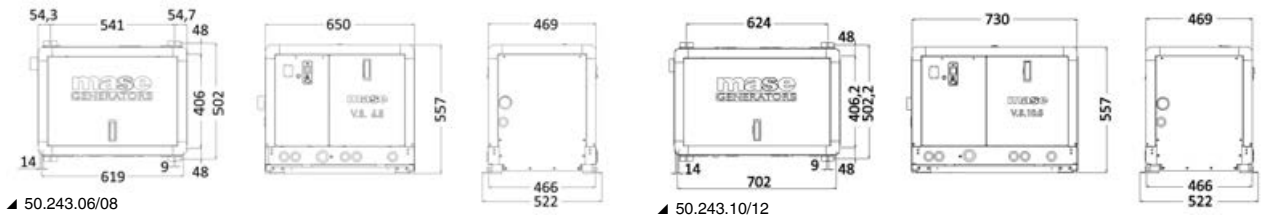
Motor RPM	Alternator		Hose Ø mm	
	V	Hz	cooling	exhaust
2100 to 3150	230-240	50-60	16	40/45

Code	Model	Motor		Alternator		Cooling system	⟷ mm	kg	Noise at 7 m
		Make and model	No. of cylinders	A	meter power kW				
50.243.06	VS 6.5	Kubota Z482	2	26.08	6	Air/water	650x469x555	161	54 dB
50.243.08	VS 8.5	Kubota Z602	2	34.7	8	Air/water	650x469x555	172	54 dB
50.243.10	VS 10.5	Kubota D722	3	40.6	10.5	Air/water	730x469x555	176	54 dB
50.243.12	VS 12.5	Kubota D902	3	52.1	12	Air/water	730x469x555	185	54 dB

50.243.06/08

50.243.10

50.243.12



50.243.06/08

50.243.10/12

MASE generator, IS.7 line - 3000 rpm

Engine: easy access in case of maintenance of the power and lubrication systems, of the sea water pump and of the air filter. Safety stop in case of low oil pressure. Safety stop against overtemperature of engine and exhaust gas. Double vibration dumping system. Easy-to-replace oil and fuel filter. Oil drain pump provided.

Alternator: synchronous, 2 poles, self-adjusted, self-excited, brushless. Weatherproof epoxy-resin coated rotor and stator. Dynamically balanced rotor. H insulation class. Safety stop against coiling overtemperature.

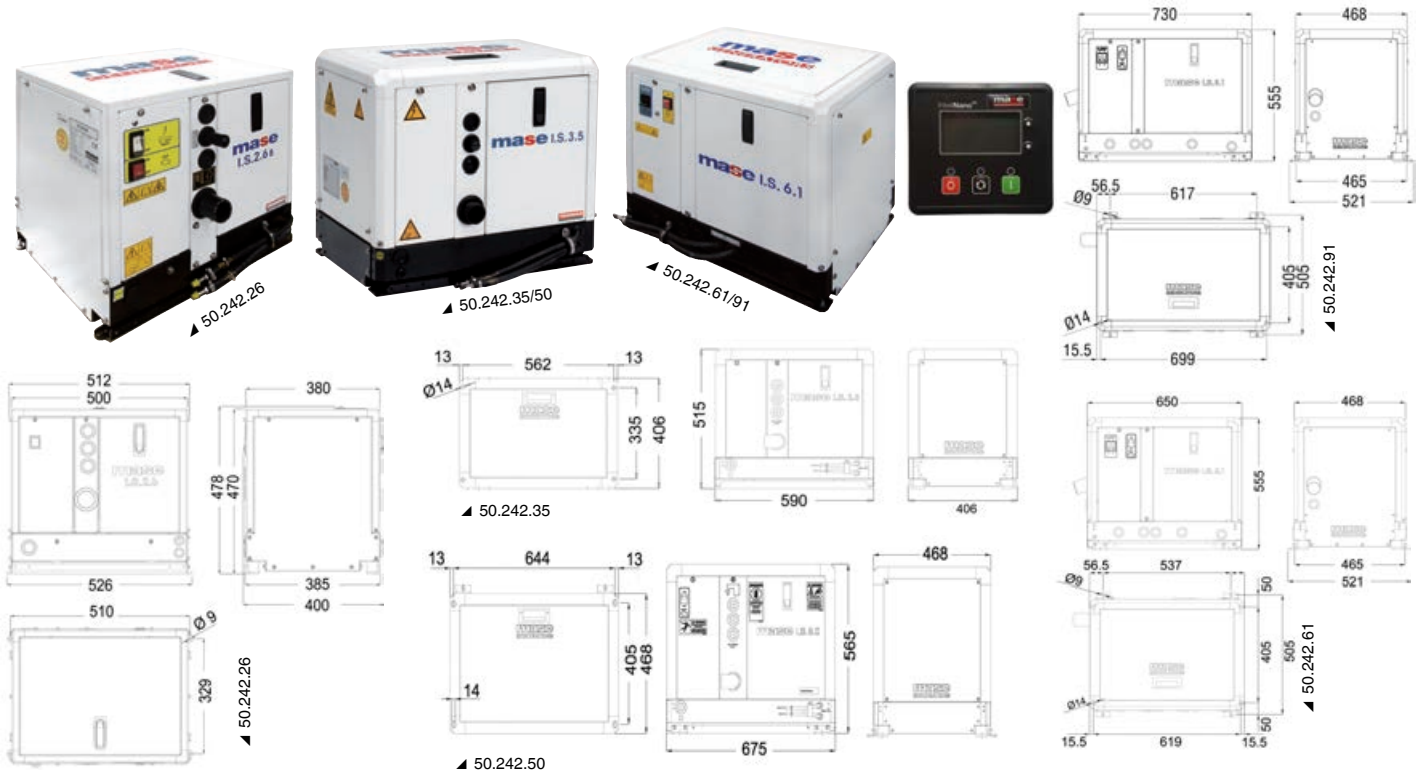
Soundproof cabinet: self-bearing frame made of aluminium profiles and lightweight coated marine 5754 aluminium alloy panels featuring extremely high weatherproof properties. Very good access to the inside housing for easier maintenance operations even when the genset is installed in confined places.

Cooling system:
Air/water: the cooling system consists of an air/sea water heat exchanger. The air flows provide an efficient cooling and the optimal temperature for the best performance and reliability of the generator. This system ensures better operating conditions for the genset despite the room temperature of the onboard housing.
Coolant/water: the cooling of the engine is based on a coolant closed circuit controlled by a seawater/coolant heat exchanger.
Air inside the alternator is cooled by a seawater/air heat exchanger.

This system makes cooling of alternator more effective and achieve optimal temperature for best performance and reliability of the generating set despite the room temperature of the onboard housing.
Control unit: InteliNanoNT MRS 3 - (118x118mm) - IP65

Motor RPM	Alternator		Tube Ø mm	
	V	Hz	cooling	exhaust
3000	115-230	50	16	40/45

Code	Model	Motor			Alternator			Cooling system	mm	kg	Noisiness at 7 m
		Make and model	No of cylinders	consumption l/h	A	Max power kW	meter power kW				
50.242.26	IS 2.6 (2 kW)	Yanmar L48N	1	0.7	17.4-8.7	2.0	1.7	Air/water	500x380x465	80	54 dB
50.242.35	IS 3.5 (3 kW)	Yanmar L70N	1	1.3	26.0-13.0	3.0	2.7	Air/water	590x406x515	96	54 dB
50.242.50	IS 5.0 (5 kW)	Yanmar L100N	1	1.65	43.5-21.7	5.0	4.2	Air/water	675x468x565	130	54 dB
50.242.61	IS 6.1 (6.1 kW)	Kubota Z482	2	2.6	53.0-26.5	6.1	5.6	Liquid/water	650x468x555	165	54 dB
50.242.91	IS 9.1 (8.6 kW)	Kubota D722	3	3.1	74.8-37.4	8.6	7.8	Liquid/water	730x468x555	185	54 dB



Circuit cooling kit for generators

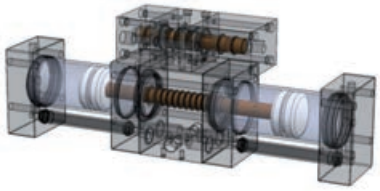
50.244.90 It includes fittings, valves, filter and anti-siphon valve.
Use a 16-mm Ø tube.

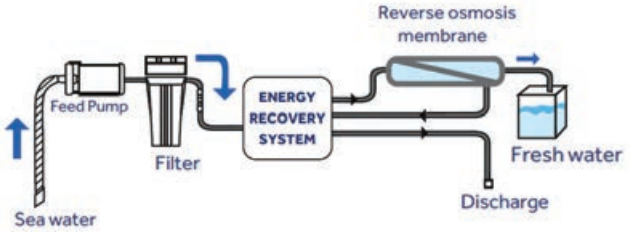
Exhaust circuit kit for generators

50.244.92 It includes silencer, exhaust valve and clamps.
Use a 40-mm Ø tube.

► Schenker watermakers

Schenker is a leading manufacturer of watermakers.
- The ERS-Energy Recovery System allows for up to an 80% saving in current draw: 240 W are enough to produce 60 l/h.
- User-friendly, no pressure adjustment is needed since the ERS mechanically manages it.
- Silent and vibration-free, no high-pressure pump is required.



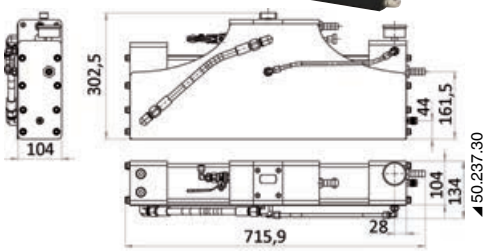


SCHENKER ZEN watermaker

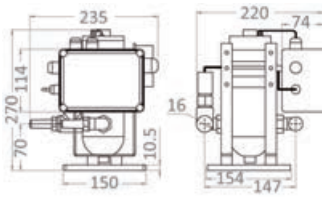
Lightweight and inexpensive, it is an ideal solutions for any boat since it is small and user-friendly (only 2 buttons).

The kit includes:
- Watermaker fitted with Energy Recovery System
- Feed pump with sea water filter
- Active carbon filter with electrovalve
- 5-micron net filter
- Fresh water hose (5 m)
- Remote panel.

Remote panel functions:
- Start/stop
- Production timer.
- Watermaker flushing
- Alarms.

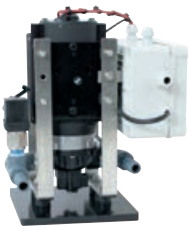


Code	Model	V	Flow rate l/h	Current draw W	kg		Diaphragm
					Desalinator	Pump	
50.237.30	Zen 30	12	30	110	16	4.5	1x(2.5"x21")
50.237.50	Zen 50	12	50	240	21.5	8.5	2x(2.5"x21")
50.237.54	Zen 50	24	50	240	21.5	8.5	2x(2,5"x21")
50.237.92	Zen 100	12	100	400	41	12	1x(4"x21")
50.237.94	Zen 100	24	100	400	41	12	2x(4"x21")

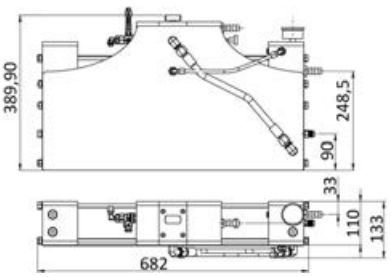


◢ Feed pump 50.237.50

◢ Remote panel

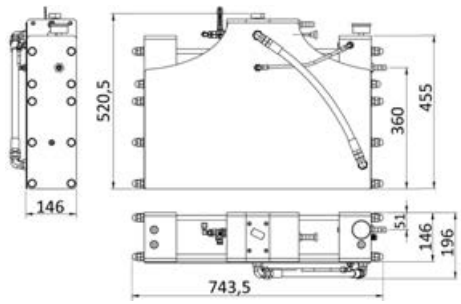


◢ Feed pump 50.237.30



◢ 50.237.50/54

◢ Feed pump 50.237.50/54



◢ 50.237.92/94

◢ Feed pump 50.237.92/94

SCHENKER ZEN water maker maintenance kit

Maintenance kit for SCHENKER ZEN water makers

Code	Description	It includes
50.239.02	Schenker Zen 30 water maker maintenance kit	3 x F5R filters 1 x ZCA (active carbon) filter 1 x CK (1 x SC1 and SC2 cleaning cycle)
50.239.03	Schenker Zen 50-100 water maker maintenance kit	3 x F5 filters 1 x CA (active carbon) filter 1 x CK (1 x SC1 and SC2 cleaning cycle)

◢ 50.239.02

◢ 50.239.03

► OSMOSEA watermakers (water purifiers)

OSMOSEA watermakers - water purifiers

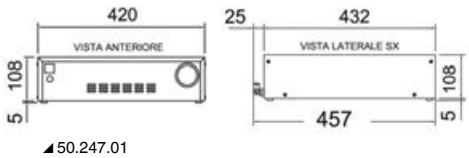
Osmoboat is a reverse osmosis system for the direct production of osmotic water. Reverse osmosis is a water purification process that uses a partially permeable membrane to remove excess salts, bacteria, viruses, pesticides and heavy metal particles.
The water that enters the system undergoes a pre-filtering phase with pores 5 micron in size to eliminate suspended bodies, and then an active carbon filtering phase for the elimination of chlorine and bad odours.
Osmoboat watermakers are lightweight and compact and comply with the Italian Ministerial Decree N0. 174 dated 6th April 2004.

Standard accessories:
- Installation fittings.
- Inlet, outlet and production hoses.
- Anti-flooding probe.
- One-way (50.247.01) and three-way (50.247.04) sink tap.
- Inlet shut-off ball valve.

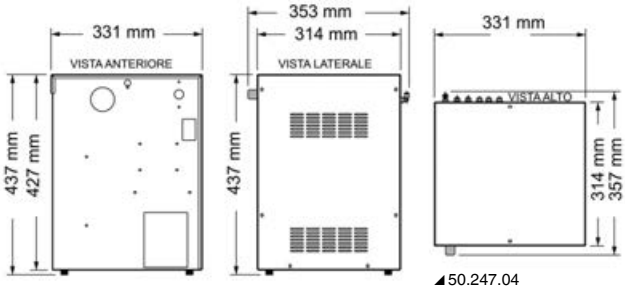
◢ 50.247.01

◢ 50.247.04

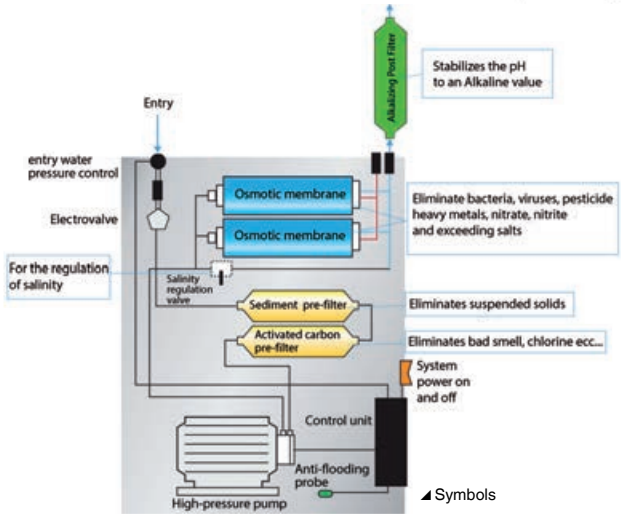
Code	Model	Type of water produced	Nominal output	⟷ mm	kg
50.247.01	Osmoboat Slim	Room temp. natural water	80 l/h	420x457x108	10
50.247.04	Osmoboat Ice	Room temp. natural water, cold natural water, cold sparkling water	80 l/h	331x437x357	26



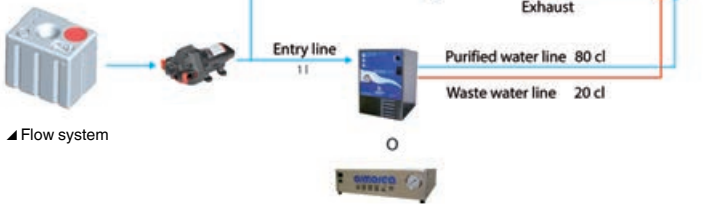
◢ 50.247.01



◢ 50.247.04



◢ Symbols



◢ Flow system

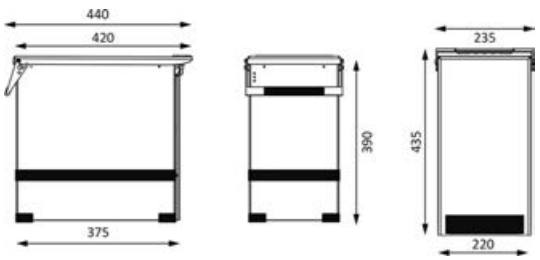
New — OBELIS stainless steel trash compactor bin

PATENT

70% SPACE SAVER

Small bin that compacts trash up to 70%.
Made of satin-finish stainless steel, it compacts paper, plastic, cans and wet waste.
To be used with the regular garbage bags on the market. Odour filter on cover.

Code	Internal capacity	Compacting capacity	Thrust	V	A	kg	Compacting time
50.248.12	18 l	70%	130 kg	12	4	15	20" to 75"

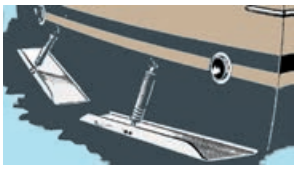


► Trim tabs

AutoTrim Tabs

Made of crosslinked **polyethylene**, self adjusting. Special shape and ribbing, initially helps the hull to plane, increases, it aligns with the hull as speed increases, ensuring perfect attitude and stability; easy universal installation.

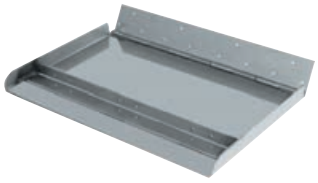
Code	⟷ mm	For boats
51.640.00	255x210	up to 6 m
51.650.00	380x260	up to 6/8 m



Standard series trim tabs, depth of 230 mm

Made of **stainless steel**, model fitted with **2.5 mm thickness and special swivelling hinge**; the tab **can rotate 180° without forcing or breaking the transom bracket**. Designed to be mounted: with **electro-hydraulic kit** Bennett 51.235.12/24; with **electro-mechanic kit** EM 52.350.00 (only standard series 51.134.01/02/03/04/05); with **mechanic kit** 51.134.00 (standard series 51.134.01/2/3/4 only).

Code	Flap pair cm	For boats m	Preset for hydraulic		
			actuators 51.235.12/24	actuators 51.350.00	actuators 51.134.00
51.134.01	30x23	4/4.5	x	x	x
51.134.02	40x23	4.5/5	x	x	x
51.134.03	55x23	5/6	x	x	x
51.134.04	75x23	6.5/7.5	x	x	x



Pair of Maxi series trim tabs, 300-mm depth, fitted with side and central rib.

Made of **stainless steel**, model fitted with **2.5 mm thickness and special swivelling hinge**; the tab **can rotate 180°** without forcing or breaking the transom bracket. Designed to be mounted: with **electro-hydraulic kit** Bennett 51.235.12/24; with **electro-mechanic kit** EM 52.350.00 (only standard series 51.134.01/02/03/04).

Code	Flap pair cm	For boats	Preset for hydraulic	
			actuators 51.235.12/24	Actuators 51.350.00
51.434.02	45x30	up to 6/7 m	x	x
51.434.03	55x30	up to 8/9 m	x	x
51.434.04	75x30	up to 9/10 m	x	x

Pair of HS series trim tabs suitable for hulls over 40-knot speed

Made of **stainless steel** exclusively by Osculati, model fitted with **2.5 mm thickness and special swivelling hinge**; the tab **can rotate 180° without forcing or breaking the transom bracket**. Designed to be used: with **electro-hydraulic kit** Bennett 51.235.12/24; with **electro-mechanic kit** EM 52.350.00 (only standard series 51.134.01).

Code	Twin trim tabs cm	To match/order with
51.234.01	30x30	kit EM 51.350.00 - kit Bennett 51.235.12/24
51.234.02*	30x45	kit 51.235.12/24 + two cylinders separately 51.237.00 + un kit 51.240.00

* *To be used with a **double cylinder** Bennet.*

► Trim tab actuators/pistons and accessories

Mechanical kit to operate Trim Tabs

Made of two 10-mm **stainless steel** turnbuckles, fitted with four **stainless steel** plates for mounting turnbuckles into the flaps and the hull, **four special cranks** to quickly lock and unlock turnbuckles **by hand**.

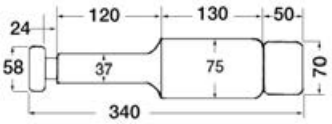
Code	For twin tabs
51.134.00	51.134.01; 51.134.02; 51.134.03; 51.134.04

Electro-mechanical trim tab actuator system EM

No hydraulic circuit, the whole mechanism is fitted into a **nylon fiberglass** cylinder. A small electric motor moves a series of worm gears to operate the lapped **stainless steel** piston. Easy and quick installation, the stern mounting plates and the tabs are interchangeable with Bennett cylinders.

Code	Version
51.350.00	Kit composed by 2 cylinder 12 V + command panel mod. 51.353.00 "Up-Down"
51.352.00*	Additional electromecanical rod "EM"

* *When asking for flaps operated by 2 pairs of cylinders, please, order: 51.350.00 kit + 51.352.00 cylinder (2 pcs)*



Control panel

51.350.00

Additional or spare control panel for kit 51.350.00

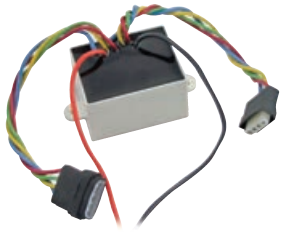
Code	⟷ mm	For pistons
51.353.00	60x80	**51.350.00**

BENNET control panel for a hydraulic trim tab set

Includes: 2 switches, 4 LED lights for up and down control, 2 safety fuse holders.

Code	⟷ mm
51.239.03	60x80

Release relay RM 12



To be used with control panel models 51.239.01; 51.239.03, provides protection against damaging the control unit whenever the buttons up and down are activated simultaneously, or in case of two control stations.

Code	Suitable for
51.239.00	**51.239.03**

► MENTE-MARINE control panels for flap automatic management

MENTE-MARINE control panel for flap automatic management

Compatible with all popular electromechanical and hydraulic trim tabs (Bennet, TrimTabs, Lenco, etc.). Control panel, position indicator and trim automatic management. No external parts. Connection instead of the series or existing panel and it uses the same cables. Wiring diagram of the different brands included.

Code	Model	Description
51.310.01	ACS R	Roll control (crosswise, only)
51.310.02	ACS RP	Roll and pitch control (crosswise and lengthwise)
51.310.03	ACS A	Roll and pitch control (crosswise and lengthwise with a possible second station for flybridge)
51.310.33	FCP	Second station panel to match to ACS A

◢ Watch the video

EUROPEAN INNOVATION AWARD NOMINATED 2015

Mente Marine

For the right attitude!

	51.310.02	51.310.01	51.310.03
Automatic pitch control Faster onto the plane and the bow is kept down at all speeds	✓		✓
Automatic roll control Crosswinds and uneven loading is automatically corrected	✓	✓	✓
Manual control Manual control of the trim tabs	✓	✓	✓
Tab position display The tab position is estimated and displayed for all kinds of trim tabs	✓	✓	✓
Turning detection Automatic control is suspended while turning	✓	✓	✓
For all sea conditions The automatic control adapts to varying sea conditions	✓	✓	✓
Automatic retraction The trim tabs are retracted to prevent marine growth	✓	✓	✓
Off the plane sleep Automatic control is suspended while off the plane	✓	✓	✓
Direct connection The trim tabs are connected directly to the control panel	✓	✓	
Separate control unit Optional flybridge panel available			✓

► LENCO electrical trim tabs

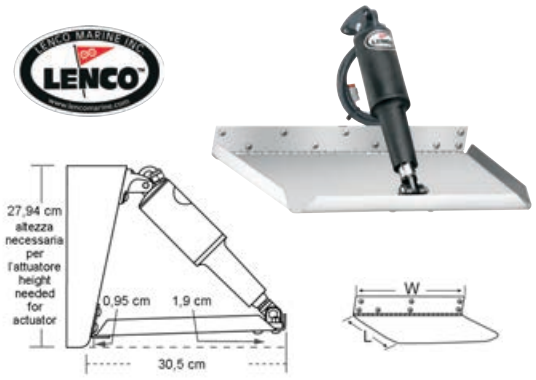
Easy to install since the mechanism is integral to the piston - no hydraulic component. The piston has a thrust force up to 340 kg and is made of high-resistance technopolymers while the rod is of stainless steel. A worm screw mounted on 12 ball bearings ensures a very precise and wearless movement for a long time. Suitable for vessels up to 70 feet.

LENCO Trim Tab Kit - standard installation

The kit includes:
- 2 actuators 51.260.01 (LENCO code 15054-01)
- 2 stainless trim tabs
- 2 x 20' (6 m) extension cables 51.259.03 (LENCO code 30133-103D) to connect the actuator to the central unit. Watertight Deutsch Connectors.

The control panel has to be bought separately.

Code	Volt	⟷ flaps			Recommended for hulls m
		L mm	W mm	L"xW"	
51.250.01	12	229	305	9x12	5 - 7.5
51.250.02	12	229	457	9x18	6.6 - 9
51.250.03	12	229	610	9x24	8 - 12
51.250.07	12	305	457	12x18	8 - 10.8
51.250.08	12	305	610	12x24	9 - 13.2



LENCO trim tab kit - Edge Mounting

Deep but narrow flaps.
Suitable for inflatables with little room on stern.
The kit includes:
- 2 actuators 51.260.01 (LENCO code 15054-01)
- 2 stainless steel tabs
- 2 x 20' (6 m) extension cables 51.259.03 (LENCO code 30133-103D) to connect the actuator to the central unit. Watertight Deutsch Connectors.

The control panel has to be bought separately.

Code	Volt	⟷ flaps			Recommended for hull metres m
		L mm	W mm	L"xW"	
51.251.01	12	305	229	12x9	5 - 6.5
51.251.02	12	305	305	12x12	6 - 9

LENCO Heavy Duty Performance (HD) trim tab kit

Suitable for large/ high speed RIBS and small speed boats Equipped with sacrificial anodes.
The kit includes:
- 2 actuators 51.260.02 (LENCO code 15055-01)
- 2 stainless steel flaps
- 2 x 20' (6 m) extension cables 51.259.03 (LENCO code 30133-103D) to connect the actuator to the central unit , watertight Deutsch Connectors.
The control panel has to be bought separately.

Code	Volt	⟷ flaps			Recommended for hulls metres m
		L mm	W mm	L"xW"	
51.252.01	12	355	305	14x12	5.5 - 10.5
51.252.02	12	406	355	16x12	6 - 11.4
51.252.03	12	457	355	18x14	6.6 - 12.4

◢51.253.01/12

◢51.253.03/13

LENCO trim tab kit - Super Strong

Suitable for fast or heavy vessels.
Trim tab thickness: 4.6 mm. Equipped with sacrificial anodes.
The kit includes:
- 2/4 actuators 51.260.03 at 12V (LENCO code 15056-01), or 51.260.04 at 24V (LENCO code 15063-001)
- 2 stainless steel flaps.
The control panel and the extensions cables to connect the actuator to the central unit have to be purchased separately.

Code	Volt	⟷ flaps			Actuator	Recommende for hulls metres m
		L mm	W mm	L"xW"		
51.253.01	12	305	610	12x24	single	8.1 - 13
51.253.03	12	406	765	16x30	double	12 - 18
51.253.12	24	305	765	12x30	single	10.5 - 14.4
51.253.13	24	406	765	16x30	double	13.5 - 18

LENCO High Performance HP trim tab

uitable for high speed motorboats/racing boats
The kit includes:
- 2 actuators 51.260.03 (LENCO code 15056-01)
- 2 stainless trim tabs
The control panel and the extension cables to connect the actuator to the central unit have to be purchased separately.

Code	Volt	⟷ flaps			Recommended for hulls m
		L mm	W mm	L"xW"	
51.254.02	12	457	305	18x12	8 - 12

LENCO High Performance HP double actuator trim tab kit

Suitable for high speed motorboats/racing boats.
The kit includes:
- 4 actuators 51.260.03 (LENCO code 15056-1)
- 2 electro-polished stainless steel trim tabs.
The control panel and the extension cables for connection to the central unit are sold separately.

Code	V	⟷ flaps			Recommended for hulls
		L mm	W mm	L"xW"	
51.254.10	12	533	355	21x14	7.20 - 12.60
51.254.11	12	635	355	25x14	8.40 - 13.80

LENCO Tactile Switch control panels

Panel + watertight control box with Deutsch Connectors outlets. Plug&Play wiring and Retractor function to retract the flaps when disconnected from the power supply. 92-cm power cables. LED version with switching up every 5-mm move.

Code	LENCO code	Version	V	LED	⟷ cm
51.256.01	15169-001	Standard	12	No	7x7
51.256.12	15170-001	Kit for single piston	12/24	Yes	7x7
51.256.13	15171-001	Kit for double piston	12/24	Yes	7x7

For OPTIONAL extension cables see 51.259.xx.

51.256.12/13

51.256.01

LENCO Flybridge kit for second station

It includes: control panel with Cree LED lights + cable for connection to the main control panel.

Code	LENCO code	Version	V	⟷ cables m
51.257.12	11841-002	With side LED lights	12/24	6
51.257.13	11841-003	With side LED lights	12/24	9

These kits only matches control panels 51.256.12/13.

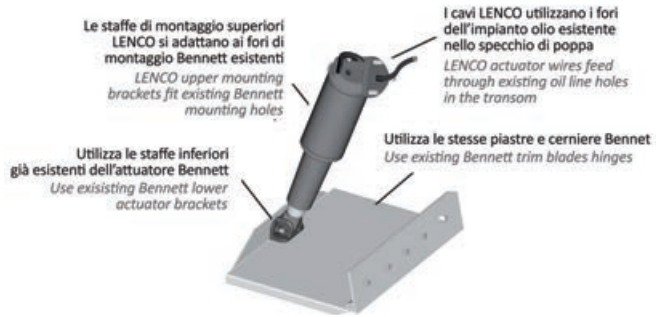
51.257.12/13

LENCO Retrofit kit for Bennet trim tabs. From hydraulic to electric system

This kit includes:
- 2 electrical actuators
- 2 upper brakets (some bores as Bennet)
-2 connectors for connection to Bennet wiring
- screws included.
This kit can replace a Bennet kit thus avoiding the hydraulic central unit. It uses the existing Bennet flaps, wiring and panel.

Code	LENCO code	Version	Volt
51.258.01	15064-001	universal kit	12

This kit isn't compatible with Bennet last-generation LED control panels (51.246.01; 51.246.02; 51.246.03)



LENCO Autoglide™ automatic trim tab control device

This device automatically adjusts your trim tabs via a built-in GPS system + 3 gyroscopes + 3 accelerometers depending on the sea conditions.

Three working modes:
1) Drive in harbour: it prevents or minimizes the movement of flaps.
2) Gliding: it lowers the tabs while gliding and then retracts them when the boat has reached its trim.
3) Navigation: it automatically adjusts the flaps depending on the rolling and pitching angles, keeping the boat in its best trim according to sea conditions. It can also save 2 manually-set trims.

Version A: supplied with GPS receiver/antenna and NMEA 2000 Network.

Version B: supplied without receiver/antenna and NMEA 2000 Network. It can be connected to an existing GPS antenna and NMEA 2000 network.

Complete kit	LENCO code	For systems	Version	V
51.265.01	15500-101	single cylinder systems	A	12/24
51.265.02	15501-101	double cylinder systems	A	12/24
51.265.12	15505-101	double cylinder systems	B	12/24

The kit includes what's necessary for installation (keyboard, control box, cables, GPS antenna, adapters, etc.)

LENCO cables to connect actuators to the central unit

Cables with watertight Deutsch Connectors. They can be used as cables or extensions. Please, order 1 cable for each actuator.

Code	LENCO code	⟷	
		feet	metres
51.259.02	30133-002D	14'	4.20
51.259.03	30133-103D	20'	6.00
51.259.04	30142-001	26'	7.80

LENCO spare actuators

Made of high-resistance glass-fiber reinforced nylon and mirror-polished stainless steel cylinder. UV-resistant.

Code	Model	V	For connector kit	Bore distance when closed mm	Stroke mm	Lower eye
51.260.01	15054-001	12	Standard Mount - Edge Mount	292	57	5/16" (8 mm)
51.260.11	15061-001	24	Standard Mount - Edge Mount	292	57	5/16" (8 mm)
51.260.02	15055-001	12	Heavy Duty Performance (HD)	273	57	5/16" (8 mm)
51.260.03	15056-001	12	Super strong - High Performance (HP)	273	57	5/16" (9,5 mm)
51.260.04	15063-001	24	Super strong	273	57	5/16" (9,5 mm)

Spare mounting brackets

Fastening plates for LENCO cylinders.

Code	code	Description
51.258.10	50015-001D	Upper bracket for actuators up to 2007
51.258.11	50014-001D	Lower bracket for Standard actuators (51.260.01/11)
51.258.12	15085-001	Upper bracket for actuators after 2007
51.258.13	15140-001	Lower bracket for 101-XD actuators (51.260.02/03/04)

► BENNETT trim tab

BENNETT trim tab kit

It includes: electronic central unit, **twin hydraulic actuators**, watertight control panel, electric wiring, etc.

Code	V
51.235.12	12
51.235.24	24

51.237.01 *Shorter cylinders available on request instead of standard cylinders 51.237.00 OPTIONAL*

51.239.04 *Spare control panel*

Additional BENNETT hydraulic actuator

Additional cylinder for art. 51.235.12; 51.235.24

When a trim tab with **2 twin** cylinders is required, please **order**: kit 51.235.12; 51.235.24, **2 cylinders** 51.237.00 and 1 kit 51.240.00.

Code	Cylinder	Length mm		
		Total (closed)	Stroke	Total(opened)
51.237.00	1	340	80	420
51.237.01*	1	300	80	380

◢51.237.00/01

◢51.240.00

51.240.00 *Kit of fittings for additional pistons*

To be used when a standard cylinder cannot be installed for reasons of space

Euro Rocker control panel - BENNETT

Fitted with toggle keys.

Code	⟷ mm	
	faceplate	recess
51.239.04	70x70	56x50

BENNETT Trim Tab Rocker Switch Control panel

Variable intensity LED indicator lights on switching, and auto tab retractor when power shut off.

Code	Version	V
51.246.01	Single station	12
51.246.02	Single station	24

Nmea 2000 trim tab position indicator

51.230.40 This kit allows the trim tab position to be displayed on RAYMARINE monitors (series A; C; E; G). The connection is possible between the red+green cables on the actuators and the monitor, placing in between the electronic box.
OPTIONAL interface cables to require separately depending on the model of RAYMARINE instrument series A, C, E, G.

BENNETT spare parts

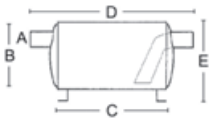
Code	Description
51.238.12	Bennet spare system 12 V
51.238.24	Bennet spare system 24 V
51.232.01	Spare solenoid valve for Bennet system red wire 12 V
51.232.02	Spare solenoid valve for Bennet system green wire 12 V
51.232.03	Spare solenoid valve for Bennet system red wire 24 V
51.232.04	Spare solenoid valve for Bennet system green wire 24 V

► Mufflers and silencers

Horizontal silencers for water-cooled engines.

Made of HD polyethylene.

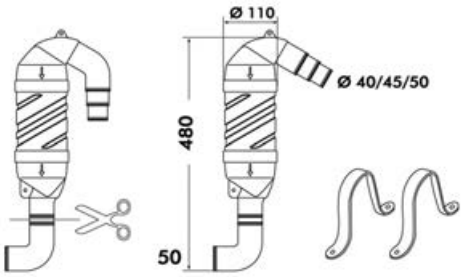
Code	D mm	A mm	B mm	C mm
51.376.01	40	150	105	372
51.376.02	45	150	105	372
51.376.03	50	150	105	372
51.376.04	60	150	105	372
51.376.05	75	150	105	372
51.377.01	90	183	135	460
51.377.02	102	183	135	460



Exhaust systems

Silencer, wet exhaust systems. The silencer effectively silences engine exhaust noise with a minimum of back pressure.
The silencer also functions as an effective water-lock. Its large capacity for cooling water eliminates the risk of water siphoning back into the engine when stopped.
Adjustable mounting brackets make the silencer easy to install. Material: Reinforced rubber with acid resistant stainless steel end pieces.

Code	Ø A mm	Ø B mm	C mm	D mm	E mm	Volume l	Max HP
51.390.01	40	160	250	420	190	5	50
51.390.03	45	127	250	400	145	3	35
51.390.05	51	160	250	420	190	5	50
51.390.07	60	160	375	560	190	7.5	100
51.390.09	76	160	375	560	190	7.5	100
51.390.11	90	203	500	760	215	15	200
51.390.13	100	203	500	760	215	15	200



Exhaust muffler-waterlock

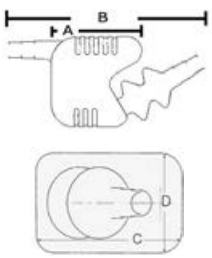
Suitable for water-cooled engines, made of **high density polyethylene**.

Code	Siphon	Size mm	Suitable for exhaust hoses mm
51.374.01	With inlet turned downwards	480x110	40/45/50
51.374.02	With 120° inlet	480x110	40/45/50

Exhaust muffler for water-cooled engines, 7 l

Made of **high density polyethylene**.

Code	Suitable for exhaust hose Ø mm	Capacity l	Working pressure	Length mm	Width mm	Height mm
51.370.00	40/45/50	7	max 0,3 BAR	760	290	400

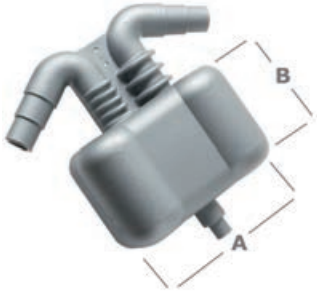


Exhaust muffler for water-cooled engines

Made of high density Eltex.

Code	Max power HP	Mouths mm	Capacity l	A mm length	B mm length	C mm height	D mm width
51.371.00	115	55/60/65	20	322	660	320	220
51.372.00	150	75/90	33	370	760	400	290
51.372.01	300	100/115	33	370	760	400	290

Water/gas separator



Code	Litres	Gas inlet/outlet fittings mm	Water inlet/outlet fittings mm	A mm	B mm
51.369.00	2,5	40/45/50	38/15	200	110
51.369.01	4,5	40/45/50	38/15	260	160

Antisiphon for water cooling engine

It must be installed on the exhaust line.

Code	Coneection mm	Installation
51.368.00	da 13 a 38	wall

Antisiphon

Antisiphon device to be used on exhaust lines, seawater connectors and WCs installed under the floating line.

Code	Hose connector Ø mm	⟷ mm
51.367.00	13/19/25/32 (1/2"-3/4"-1"-1"1/4)	92x150

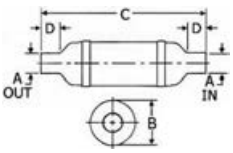
► CENTEK mufflers

Vernatone CENTEK

Made of fiberglass.
Use:] inboard engines
Application: above the waterline.

Code	A mm	B mm	C mm	D mm	Max power	
					gasoline	diesel
51.379.01	76	180	511	89	160	60
51.379.02	102	230	648	89	280	125
51.379.03	127	279	984	112	370	210
51.379.04	152	310	1054	127	440	280
51.379.05	203	412	1340	152	-	420

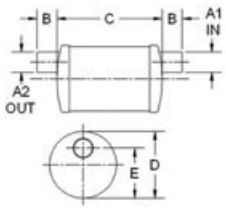
Two mufflers are required for "V" engines; in this case divide the engine power by two. Application: above floating line.



Vernalift In Line CENTEK

Made of fiberglass.
Use:]inboard engines, sail, generators.
Application: above or under the waterline.

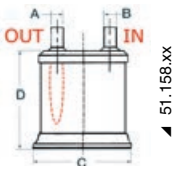
Code	A 1/2 mm	B mm	C mm	D mm	E mm	Max power	
						petrol	diesel
51.378.01	40	50	267	162	124	30	10
51.378.02	50	50	267	162	124	60	25
51.378.03	60	60	356	212	157	90	35



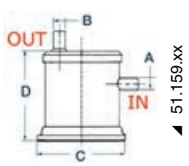
Vernalift Top CENTEK

Made of fiberglass.
Use:] inboard engines, sail, generators.
Application: above or below the waterline.

Loading above		A mm	B mm	C mm	D mm	Max power	
unloading lateral	loading above					HP gasoline	diesel
51.159.01	**51.158.01**	40	40	178	203	35	15
51.159.02	**51.158.02**	50	50	229	203	50	20
51.159.03	**51.158.03**	63	63	229	203	100	30
51.159.04	**51.158.04**	76	76	267	258	150	50
51.159.05	**51.158.05**	90	90	305	305	200	75



◄ 51.158.xx

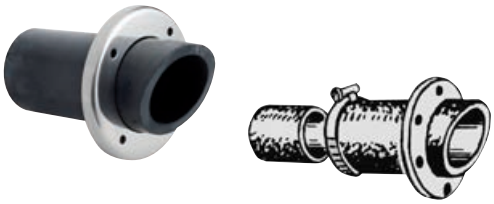


◄ 51.159.xx

◄ 51.158.xx

◄ 51.159.xx

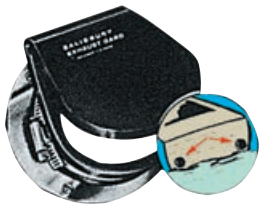
► Exhaust pipes



Exhaust pipe scuppers

Made of **neoprene and stainless steel**, universal size, anti-vibration, rust-proof.

Code	Ø mm
51.381.01	40
51.381.02	50/60
51.381.03	75/90



Exhaust protection valves

Made of **rubber**, fitted with **stainless steel** clamp, for mounting on the exhaust terminals in order to avoid water from returning in case of quick shut down, **sold in pairs**.

Code	Type	Maximum Ø mm
51.381.99	2”	52
51.382.00	3"	75
51.382.01	4"	100
51.382.02	6"	150

OSCULATI

Exhaust pipe scuppers fitted with anti-backflow check valve

AISI 316 Made of **mirror polished AISI 316 stainless steel**, fitted with rubber anti-backflow check valve. Fastening with 4 folding studs 6mm-Ø.

Code	Ø pipe mm	Ø flange mm	Ø net opening mm	Neck length mm
51.384.01	40	75	35	75
51.384.02	45	75	40	75
51.384.03	50	100	45	80
51.384.04	60	100	55	80
51.384.06	75	131	67	100
51.384.07	90	131	73	110
51.384.08	100	182	90	120
51.384.09	110	182	100	120
51.384.10	125	182	113	140

OSCULATI

Technopolymer and stainless steel exhaust pipe scuppers with check valve

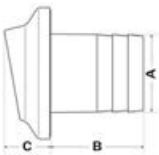
Made of reinforced technopolymer with polished AISI304 stainless steel finish ring. Hidden screws. Easy mounting. Stainless steel full design.

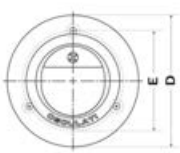
Code	For hose Ø mm	⟷ mm				
		A	B	C	D	E
51.386.01	40	41	60	30	85	65
51.386.02	45	46	60	30	85	65
51.386.03	50	51	60	30	85	65
51.386.04	60	61	90	35	110	89.5
51.386.06	75	76	90	35	110	89.5
51.386.07	90	91	90	45	138	116
51.386.08	100	101	90	45	138	116
51.386.09	110	111	110	50	165	141
51.386.10	125	126	110	50	165	141

◢51.386.01

◢51.386.10

◢51.386.08





► Supports and pipes

Pipes for exhaust systems

Made of **rubber**, type-approved by **RINA and LLOYD**, the pipes are fitted with a black smooth rubber substructure, high-resistance synthetic fabrics and built-in metal spirals. coating made with fire-proof black rubber, resistant to oil products, salt water, atmospheric agents and abrasion.

Code	Type	⟷ mm	Curve radius mm	Roll m
51.652.30	smooth	30x39	90	20
51.652.35	smooth	35x44	105	20
51.652.40	smooth	40x50	120	20
51.652.45	smooth	45x55	135	20
51.652.50	smooth	50.5x61	150	20
51.652.60	smooth	60x70	180	20
51.653.10	corrugated	101x113	152	10
51.653.11	corrugated	110x123	220	10
51.653.12	corrugated	125x136	255	10

Code	Type	⟷ mm	Curve radius mm	Roll m
51.653.13	corrugated	130x143	260	10
51.653.15	corrugated	152x168	305	10
51.653.20	corrugated	200x220	815	10
51.653.40	corrugated	40x48	40	20
51.653.45	corrugated	45x53	45	20
51.653.50	corrugated	51x61	51	20
51.653.60	corrugated	60x70	60	20
51.653.75	corrugated	76x85	76	10
51.653.90	corrugated	90x103	90	10

*Pipes are sold **only** with standard sizes.*

◢ 51.652.xx

◢ 51.653.xx

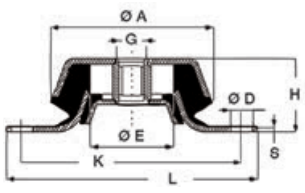
Elastic anti-vibration supports for inboard engines and generators, including counter-pads.

High-quality NBR rubber; shore hardness 55 +/- 3, female hole; available in **galvanized steel** or in **stainless steel**.

Stainless steel	Galvanized steel	Ø A mm	Ø E mm	Ø D mm	Ø H mm	Ø K mm	Ø L mm	S mm	Ø G mm (studs)	Max static nominal load kg	Studs*	
											code	⟷ mm
-	**51.656.01**	62	25	8.2	30	78	100	2	10 MA	100	**51.657.10**	10x80
-	**51.656.03**	90	44	10.2	45	110	130	3	16 MA	350	**51.657.16**	16x120
51.655.02	**51.656.02**	62	25	8.2	30	78	100	2	10 MA	200	**51.657.10**	10x80
51.655.04	**51.656.04**	90	44	10.2	42	100	130	3	16 MA	350	**51.657.16**	16x120
51.655.07	**51.656.07**	115	61	16.2	46	142	190	4	18 MA	600	**51.657.18**	18x150

Apply an indicative 30% reduction for dynamic loads.

* *In stainless steel, with 3 nuts for anti-vibration.*



◢ 51.656.02 + 40.142.11

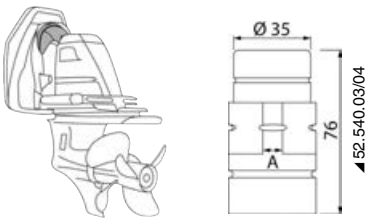
◢ 51.656.07

► Spare parts for inboard engines and stern drive units

Spare drum for VOLVO sterndrive units

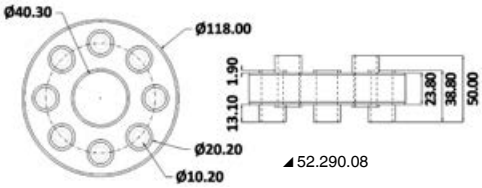
Made of high-quality Anticorodal aluminium, epoxy-coated in Volvo colour. Bushings, screws and nuts in AISI316 stainless steel.

Code	OEM code	Leg	Coupling
52.540.01	839441	P 280/290	Greasing unit spline pin
52.540.02	873183	DP 290A	Spline pin
52.540.03	872845	D42	Square side (A = 9 mm)
52.540.04	3857147	DPG	Square side (A = 11 mm)



52.290.08

52.290.16

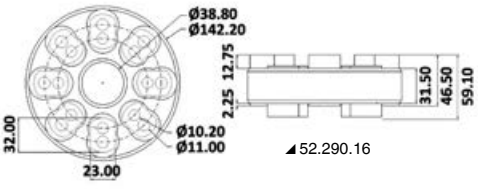


52.290.08

Elastic coupling joints

To be placed between the shaft of the propeller and the inverter.
Made of nitrile rubber on aluminium bushing.

Code	Version	Max HP
52.290.08	8 bores	25
52.290.16	16 bores	110



52.290.16

52.291.01

52.291.02

Couplings for Twindisk inverters

Code	Description	⟷ mm
52.291.01	Short	35x35x20 (h)
52.291.02	Long	35x70x20 (h)

► Pipes and fuel hoses

Fuel pipe

Made with a special co-extruded hose with polyester reinforcements; 8x13-mm cross section, resistant up to 15 bar; includes oversized pump, suitable for unleaded petrol.

Code	Version	Length m
52.731.70	with OMC joint	2
52.731.90	without terminal joints	2
52.731.91	without terminal joints	3
52.731.80	with 2 OMC joints (equal to the original)	3
52.731.75	with 2 Mercury joints (male or female), for engines up to year 1987	3
52.731.77	With Yamaha/Mercury/Mariner joint, model after year 1987	2
52.731.78	With two Yamaha joints, model after year 1987	3
52.731.76	With two Mercury/Mariner joints, after year 1987	3
52.731.79	With two Mercury female joints from year 1998	3

◢ 52.731.70 ◢ 52.731.90/91

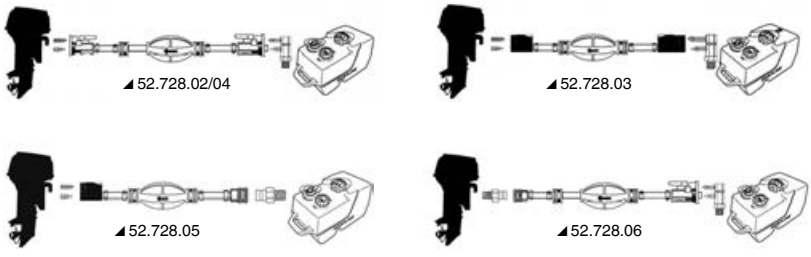
◢ 52.731.80 ◢ 52.731.75 ◢ 52.731.77 ◢ 52.731.78 ◢ 52.731.76 ◢ 52.731.79

High quality fuel line

Sold in blister pack.

Code	Motors	Length m	Suction pump	Piping	Fastening clamps
52.728.01	Universale, without terminal connectors	2.5	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel
52.728.10	Universale, without terminal connectors	3.6	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel
52.728.02	Yamaha + Mercury 88/89	2.5	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel
52.728.03	New Mercury / Mariner from year 1998	2.5	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel
52.728.04	Johnson/Evinrude	2.5	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel
52.728.05	Honda	2.5	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel
52.728.06	Suzuki 25-140HP 4S	2.5	Great flow model 52.732.01	With fabric reinforcements with 3 layers 8x15.5 mm	Stainless steel

OSCULATI



◢ 52.728.02/04 ◢ 52.728.03 ◢ 52.728.05 ◢ 52.728.06

Special fuel pipe

PVC version: coextruded anti-petrol PVC, fitted with nylon braid and black PVC layer.
Version for unleaded petrol].
Rubber version: black rubber with internal explosion-proof reinforcement made of high-resistance synthetic yarn.

Code	Version	Operating pressure	⟷ mm	Roll m
52.732.10	Black PVC	3 bar	8x13	25
52.732.11	Black rubber	10 bar	8x15	25

◢ 52.732.10

◢ 52.732.11

Fuel primer bulb

Fitted with valves and hose adapter.

Code	Ø mm	Length mm	For hose Ø mm
52.732.00	45	108	8

High-capacity fuel suction pump

Made of **PVC**, **large capacity** model, **display blister pack**.

Code	Ø mm	Length mm	For fuel hose Ø mm
52.732.01	50	145	10

Fuel suction pump with multiple hose adapters

Made of special technopolymer. Fitted with removable 6/8/10-mm Ø fittings.

Code	Ø mm	Length mm	For fuel hoses Ø mm
52.732.02	47.5	145	6/8/10

Hose fitting spring

Code	Description	ORDER BY BOX
52.014.00	Stainless steel spring for fuel hose fitting to connector or primer	100

Fuel connectors Johnson/Evinrude

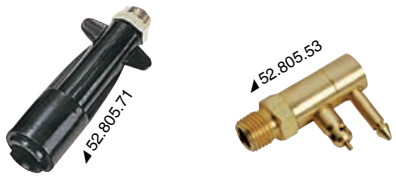
Code	Version
52.732.20	**Female** connector, engine side or tank side (orig. 174508). 8-mm Ø hose adaptor.
52.732.21	**Female** connector, engine side or tank side ((orig. 176445). 10-mm Ø hose adaptor.
52.732.30	Male connector for application on engines, with valve
52.732.55	Male connector for tanks, with thread, for screwing onto the tank (orig. 772681)
52.732.56	Male connector with hose adaptor, for wheel connection
52.732.57	Male connector with **double** hose adaptor, for wheel connections

Yamaha fuel connectors

Code	Description
52.732.43	Yamaha Ø 8 mm (5/16") female connector, engine or tank side (OEM 6Y1-24305-06-00 / 6G1-24305-05-00). To be used instead of the old model 52.732.41 (OEM 6E5-24305-25)
52.732.44	Yamaha Ø 10 mm (3/8") female connector, engine or tank side (OEM 6Y2-24305-06-00 / 6E5-24305-06-00). To be used instead of the old model 52.732.42 (6G1-24305-05)
52.732.51	Male connector, engine side. Also suitable for Mercury/Mariner from 1988, engine side (orig. 6G1-24304-10-00)
52.732.58	Wheel male connector with hose adaptor
52.732.59	Wheel male connector with **double** hose adaptor
52.732.49	Threaded male connection for tank latest model 1/4" - 18 NPT
52.732.50	Threaded male connection for tank old models 1/4" - 18 NPT

Fuel connectors Mercury/Mariner

Code	Version
52.805.70	**Female** connector, engine side with hose adaptor
52.805.71	**Female** connector, tank side with threaded **brass** hose adaptor
52.805.80	**Male** connector, tank side with hose adaptor
52.732.51	Male connector, engine side. Also suitable for Mercury/Mariner from year 1988, engine side
52.805.52	Male connector for tank
52.805.53	Mercury **male** connector, **tank side**, screw-in onto this latter, from year 1997
52.805.54	Female connector, **tank side from year 1997** (orig. ref. 22-13563-Q7). 10-mm Ø hose adaptor
52.805.64	Female connector **tank side from year 1997** (orig. ref. 22-13563-Q7). 8-mm Ø hose adaptor
52.732.44	10-mm (3/8") Ø female conncetor, engine side from year 1988 (orig. 22-13563Q3).
52.732.43	8-mm (5/16") Ø female conncetor, engine side from year 1988 (orig. 22-13563Q3).
52.805.57	Male connector with hose adaptor for wheel connection
52.805.58	Male connector with **double** hose adaptor for wheel connection



Suzuki fuel hoses

Code	Description
52.392.58	Small female connector up to 75 HP made of nylon. 8-mm Ø hose adaptor
52.392.59	Small female connector up to 75 HP made of nylon. 10-mm Ø hose adaptor
52.392.60	Small female connector up to 75 HP. 9-mm Ø hose adaptor
52.392.65	Small male connector up to 75 HP (for tank, 11-mm Ø).
52.392.61	Large female connector 75/140 HP. 10-mm Ø hose adaptor.
52.395.30	Large male connector 75/140 HP (for tank, 13-mm Ø).
52.395.20	Large male connector, engine side (13-mm Ø).
52.732.20	Female connector (4 strokes up to 140 HP) (65750-87J11). 8-mm Ø hose adaptor.
52.732.21	**Female** connector,engine side or tank side (orig. 176445). 10-mm Ø hose adaptor.
52.732.30	Male connector (4 strokes up to 140 HP) (65720-98610.000)

◢ 52.392.60

◢ 52.392.65

◢ 52.392.61

◢ 52.395.30

◢ 52.395.20

◢ 52.392.58/59

◢ 52.732.20/21

◢ 52.732.30

Tohatsu - Force - Crysler - Nissan fuel hoses

Code	Match	Description
52.392.60	A	Small female connector up to 75 HP Force/Crysler. 9-mm Ø hose adaptor.
52.392.65	A	Small male connector up to 75 HP (for tank, Ø 11) Force/Crysler
52.392.61	B	Large female connector Tohatsu. 10-mm Ø hose adaptor.
52.395.30	B	Large male connector Tohatsu
52.395.08	C	Female connector Tohatsu/Nissan up to 90 HP. 10-mm Ø hose adaptor.
52.395.09	C	Male connector Tohatsu/Nissan up to 90 HP for tank
52.395.10	D	Female connector Tohatsu/Nissan over 90 HP. 10-mm Ø hose adaptor.
52.395.20	D	Male connector Tohatsu/Nissan over 90 HP engine side
52.395.25	D	Male connector Tohatsu/Nissan over 90 HP tank side
52.805.55	-	Female connector Tohatsu engine side 394-70250-0 / 18-80417. 10-mm Ø hose adaptor.

◢ 52.392.60

◢ 52.392.65

◢ 52.392.61

◢ 52.395.30

◢ 52.395.08

◢ 52.395.09

◢ 52.395.10

◢ 52.395.20

◢ 52.395.25

◢ 52.805.55

Honda fuel hoses

Code	Description
52.392.61	Large female connector (up to 1990). 10-mm Ø hose adaptor.
52.395.30	Large male connector (up to 1990) for tank.
52.395.42	Female connector since 1991 (orig. 17660 ZV5-A00 17660-ZW9-003) tank side. 10-mm Ø hose adaptor.
52.395.44	Male connector since 1991 (orig. 16.977-ZV5-A00) for tank.
52.395.40	Engine side connector (orig. 17650-ZW9-023) square joint, 10-mm Ø hose adaptor.
52.395.41	Engine side connector (orig. 17650-ZW9-023) square joint, 8-mm Ø hose adaptor.
52.732.44	10-mm (3/8") Ø female connector, tank side (17650-ZV4-005).
52.732.43	8-mm (5/16") Ø female connector, tank side (17650-ZV4-005) and Honda old type 17650-921-003ZB up to 1991.

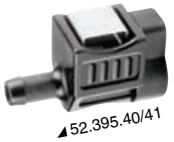
◢ 52.392.61

◢ 52.395.30

◢ 52.395.42

◢ 52.395.44

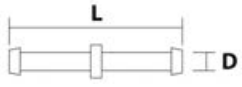
◢ 52.732.43/44


◢ 52.395.40/41

Plastic connector for fuel hose

Double hose connector to connect the tank to the outboard engine. Universal for Mercury, Yamaha, Suzuki, etc...

Code	D mm	L mm	ORDER BY BOX
52.732.16	10	54	5



Brass fuel connector

Double brass connector to connect the tank to the outboard engine. Universal.

Code	Ø mm	Length mm	ORDER BY BOX
52.732.14	8 (5/16 ")	51	5
52.732.15	10 (3/8")	51	5

► Portable tanks

Portable fuel tank

Made of **Eltex, RINA and CE type-tested,** fitted with drain plug, hose adapter and vent plug; includes **reserve and gas expansion chamber**.

Code	Flow l	Reserve l	Level indicator	⟷ cm	kg
52.733.10	12	1	no	41x26x19	1.3
52.733.22*	22	2	**optical**, through clear strip	50x33x23	2
52.733.25	22	2	**mechanical** with dial and needle in cap (52.742.01)	50x33x23	2

* **52.742.01** *OPTIONAL mechanical level gauge*

Portable fuel tank

Made of eltex, RINA and CE type-tested, fitted with drain plug, hose adapter and vent plug.

Code	Flow l	Supply l	Level indicator	⟷ cm	kg
52.738.24	24	3	optical	46x34x23	2.1
52.738.29	29	3	optical	51x36x23	2.5

52.742.01 *OPTIONAL mechanical level gauge*

Spare plug without level indicator for fixed tanks

52.744.01 Spare cap without level indicator for models: 52.033.01; 52.033.02; 52.033.03; 52.033.04; 52.033.05; 52.033.06; 52.033.07; 52.033.08

Spare plug without level indicator for portable tanks

52.743.01 Spare plug without level indicator for 52.733.10; 52.733.22

Plug fitted with mechanical level indicator

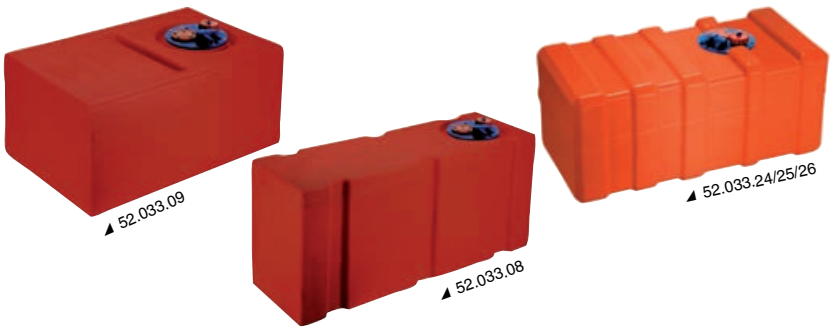
52.742.01 Plug fitted with mechanical level indicator and hand for items 52.733.22, 52.738.24/29.

► Fuel tanks and accessories

Orange Eltex CE type-approved gasoline and diesel tank, fixed version

Includes main unit system, plug, vent, drain plug, made-ready for fuel level systems (mechanical levels models 52.037.00 may be used, or electrical levels that are similar to our model 27.160.00 or others, or also axial floaters models 27160/150/161/151 with 5 hole universal flange.

Code	Width cm	Length cm	Height cm	Flow l	Max float cm
52.033.01	35	50	30+3	42	28
52.033.02	35	65	30+3	55	28
52.033.03	35	80	30+3	70	28
52.033.04	35	50	23+3	33	20
52.033.05	35	65	23+3	43	20
52.033.06	35	80	23+3	53	20
52.033.07	30	66	41+3	62	38
52.033.08	30	91	41+3	91	38
52.033.09	41	66	30+3	62	28
52.033.10	41	91	30+3	91	28
52.033.21	40	80	28+3	70	25
52.033.22	40	95	28+3	84	25
52.033.23	40	110	28+3	96	25
52.033.24	40	80	40+3	102	38
52.033.25	40	95	40+3	120	38
52.033.26	40	110	40+3	140	38



Inspection hatch

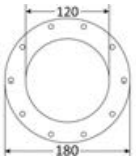
Fitted with plug vent, drain plug and 12-mm Ø hose adaptor.
17-19-mm Ø vent. Blind flange for meters.

Code	For	Hose adaptor mm	Cap
52.740.00	**52.033.XX**	8	3/8"

Inspection trapdoor for diesel tanks

In compliance with ISO 21487 for PA6 nylon material. Fitted with gaskets.

Code	Bore Ø mm	Outer Ø mm	g
52.035.00	120	180	209



Mechanical level indicator

Code	for tanks with height	Suitable for tanks
52.037.00	H30	52.033.01; 52.033.02; 52.033.03; 52.033.09; 52.033.10
52.037.01	H23	52.033.04; 52.033.05; 52.033.06
52.037.02	H28	52.033.21; 52.033.22; 52.033.23
52.037.03	H40/41	52.033.07; 52.033.08; 52.033.24; 52.033.25; 52.033.26

Mechanical fuel gauge

Code	Float rod length mm
52.742.04	220
52.742.03	265
52.742.02	285
52.742.05	370

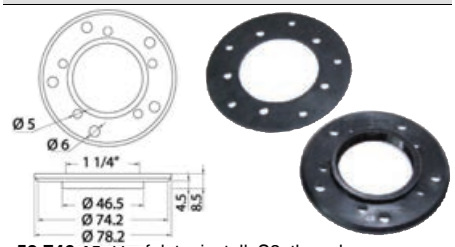
Cap for flange

52.746.00 For tanks fitted with international 5-hole flange.

Level sensor seal

52.746.01 For tanks fitted with international 5-hole flange. To be used with plug 52.746.00.

Mounting flange for level sensors from S5 to S3



52.746.10 Useful to install S3 thread sensors on tanks ready to fit 5-bore flange (S5).

Universal outlet kit

It includes No 1 straight threaded joint + No 1 38-50-60-mm Ø 90° threaded elbow + No 2 seals. 1" 1/2 thread.

Code	For tank models
52.036.00	52.033.../52.730..../52.731..../52.732.../52.733...

Four bracket set

Code	Description
52.038.04	Made of **plastic**, includes 2.4-m **polypropylene** straps + tank locking buckle, fenders and others, **universal** model.

Anti-smell filter

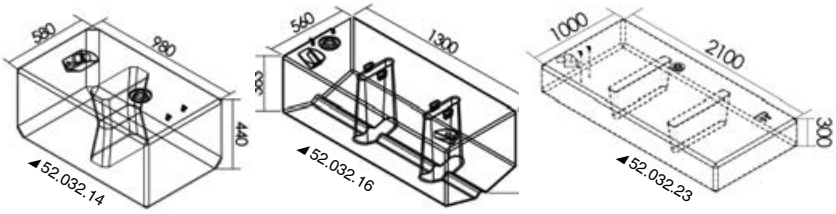
Active carbon filter for fuel tank draining.

Code	Description	Hose adaptor mm	⟷ mm
50.136.00	complete filter	16	110 x 120
50.136.02	spare filtering element	-	-

Fuel tanks

Made of **crosslinked polyethylene type-tested for petrol**. Made in compliance with ISO 21487 standards, **RINA CE type-tested**. Equipped with 10/180 - 240/330 ohm **universal frequency level indicators**, already installed and tested.

Code	Capacity l	Plan mm	Height mm	Vent mm	Load mm	Outlet mm	Version
52.032.14	207	980x580	440	16	39	10 (2)	-
52.032.16	271	1300x560	383	16	39	10 (2)	under dunnage
52.032.23	555	2100x1000	300	16	50	10 (4)	-



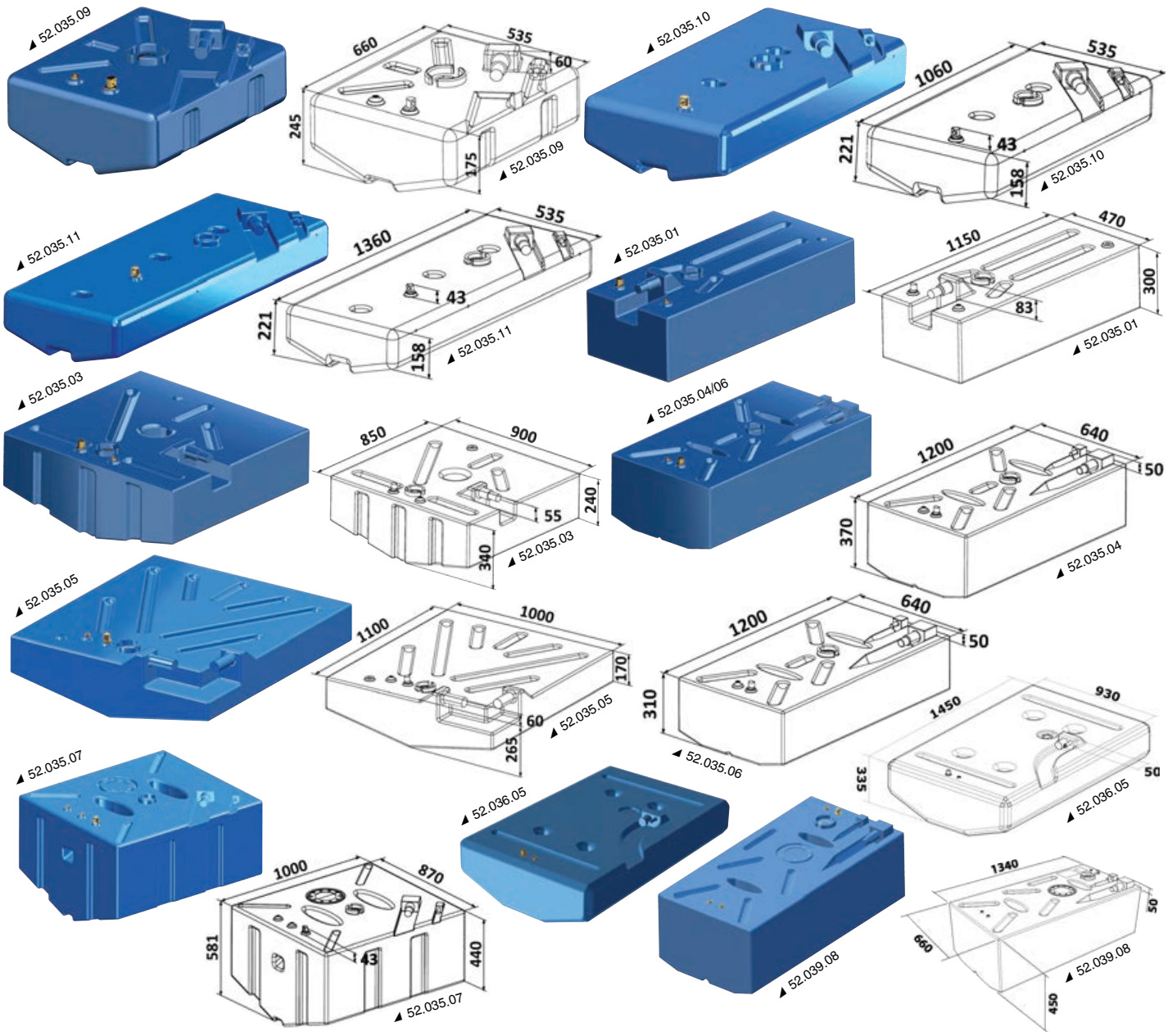
Crosslinked polyethylene fuel tanks for petrol

OSCULATI

CE Made in compliance with ISO 21487. RINA CE certified. Fitted with brass tap plug, float protection and shock-absorbing floating protection where necessary.

Code	Capacity l	Fuel	⟷ mm	Max length per float cm	Vent Ø mm	Inlet plug Ø mm	Tap plug Ø inches
52.035.09	62	petrol	660x535x245 (+60) h	25	16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.035.10	90	petrol	1060x535x221 (+43) h	17	16 built-in	38-50	90° elbow, 3/8" female thread
52.035.11	116	petrol	1360x535x221 (+43) h	17	16 built-in	38-50	90° elbow, 3/8" female thread
52.035.01	142	petrol	1150x470x300 (+83) h	26	16 hose adaptor	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.035.03	189	petrol	900x850x340 (+55) h	26	16 hose adaptor	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.035.04	239	petrol	1200x640x370 (+50) h	30	18/16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.035.05	206	petrol	1100x1000x265 (+60) h	17	16 hose adaptor	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.035.06	198	petrol	1200x640x310 (+50) h	25	18/16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.035.07	353	petrol/diesel	1000x870x581 (+43) h	49	16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.05	347	petrol	1450x930x335 (+50) h	28	19 built-in	38	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.039.08	315	petrol/diesel	1340x660x450 (+50) h	41	19 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug

52.035.96 *Additional tap plug OPTIONAL*



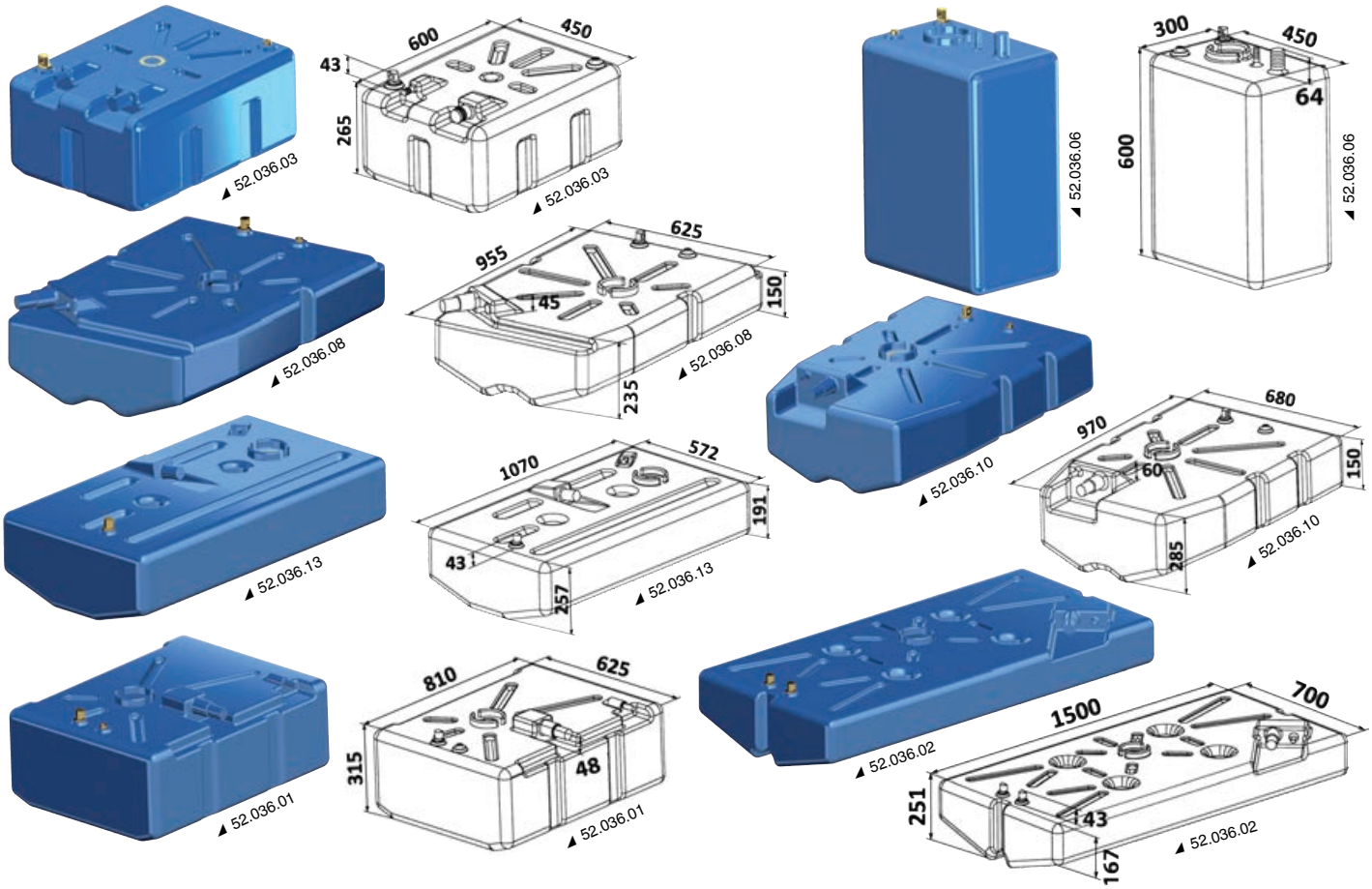
Crosslinked polyethylene fuel tank for petrol

OSCULATI

CE Made in compliance with ISO 21487. RINA CE certified. Fitted with brass tap plug, float protection and shock-absorbing floating protection where necessary.

Code	Capacity l	Fuel	⟷ mm	Max length per float cm	Vent Ø mm	Inlet plug Ø mm	Tap plug Ø inches
52.036.03	58	petrol	450x600x265 (+43) h	21	16 built-in	38	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.06	69	petrol	450x300x600 (+64) h	54	16 built-in	38	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.08	99	petrol	955x625x235 (+45) h	15	16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.10	116	petrol	970x680x285 (+60) h	20	16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.13	120	petrol	1070x572x257(+43) h	23	16 built-in	38	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.01	134	petrol	810x625x315 (+48) h	30	16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug
52.036.02	180	petrol	1500x700x251 (+43) h	20	16 built-in	38-50	90° elbow, 3/8" female thread + preset for 2nd tap plug

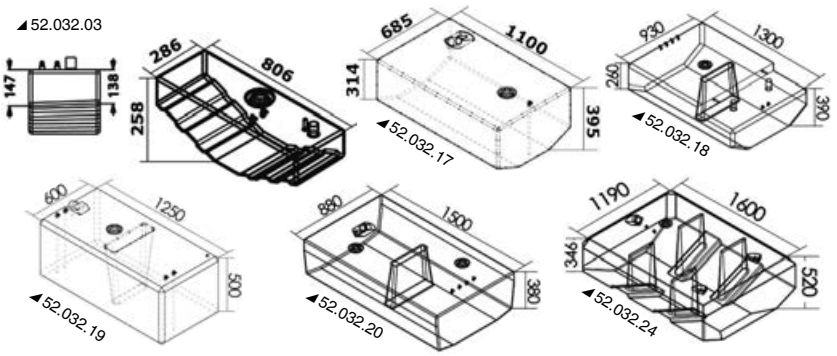
52.035.95/96 *Additional tap plug OPTIONAL*



Fuel tanks

Made of **crosslinked polyethylene** type-tested for petrol. Made in compliance with ISO 21487 standards, **RINA CE type-tested**. Equipped with 10/180 - 240/330 Ω **universal frequency level indicators**, already installed and tested.

Code	Capacity l	Plan mm	Height mm	Vent mm	Inlet mm	Outlet mm	Version
52.032.03	40	806x286	258+40 (outlet)	16	39	8/10 (2)	-
52.032.17	270	1100x685	395	16	39	10	under dunnage
52.032.18	370	1300x930	390	16	50	10 (4)	under dunnage
52.032.19	336	1250x600	500	3/8"	50	10 (4)	-
52.032.20	450	1500x880	380	16	39	10 (4)	-
52.032.24	767	1600x1190	520	3/8"	50	10 (2)	under dunnage

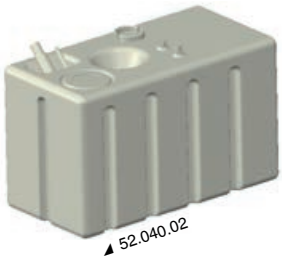


Fuel tank made of cross-linked polyethylene

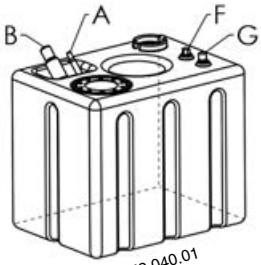
Made in compliance with the ISO 21487 standards. Certified RINA-CE. Fitted with brass adjustable float.
VDO-type 5-bore shielded flange for float mounting (see 27.160.xx; 27.161.xx; 27.165.xx).

Code	Capacity l	Fuel	⟷ mm	Float max length cm	A - Vent Ø mm	B - Filler cap Ø mm	F - Arranged for float	G - adjustable float
52.040.01	164	Petrol + Diesel	700x500x600+84 (h)	55	16/20	38/50	With 1/2" closed cap	F 3/8" GAS
52.040.02	248	Petrol + Diesel	1000x500x600+84 (h)	55	16/20	38/50	With 1/2" closed cap	F 3/8" GAS
52.040.03	336	Petrol + Diesel	1400x500x600+84 (h)	55	16/20	38/50	With 1/2" closed cap	F 3/8" GAS

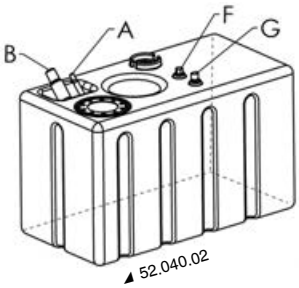
52.040.01


52.040.02

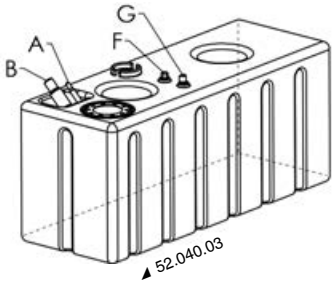
52.040.03



52.040.01



52.040.02



52.040.03

52.035.95

52.035.96

Additional brass suction pipe for fuel tanks petrol / diesel

Suction pipe for tanks 52.035.xx, 52.036.xx and similar. 3/8" female thread. Max length 550, cut to length on request.

Code	Description
52.035.95	With 3/8" male thread
52.035.96	3 pivoting o-rings. For tanks fitted with 1/2" male suction outlet.

Aluminium fuel tank

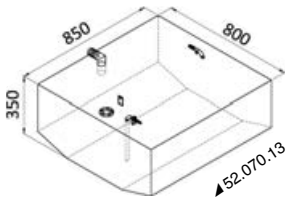
OSCULATI

CE Manufactured in compliance with ISO21487:2013-05 regulations and EC certified. Reinforced walls and breakwaters available in different sizes depending on the model.
Supplied with mass socket and 4 mounting brackets.
Level sensor to be ordered separately.
For a minimum order quantity of 10 pcs the position of harnesses and accessories can be modified.

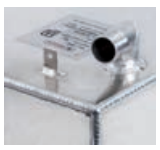
Code	Capacity l	Fuel	⟷ mm	Max length per float	Vent Ø mm	Intake Ø mm	Hose adaptor float Ø mm	Connector for 2nd float
52.070.12	207	petrol	1100x640x310 +(67) h	30	16	38	10	-
52.070.13	215	petrol	850x800x350 +(67) h	34	16	38	10	-
52.070.18	260	petrol	1400x640x310 +(67) h	30	16	38	10	-
52.080.21	370	petrol/diesel	1300x800x370 +(77) h	36	16	50	10	3/8" F GAS

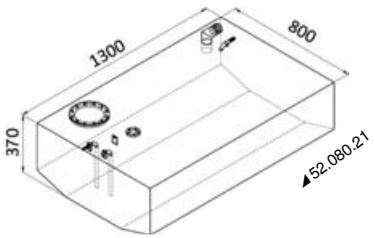
52.070.xx

52.080.xx



52.070.13


52.070.xx



52.080.21

52.080.xx

Fuel tanks

Made of **stainless steel**, complies with **RINA and EC** standards, includes snap-in cover with drain plug, hose adaptor, vent, made-ready for fuel level indicator using a standard international 5-hole flange (can be used with either a mechanical level indicator model 52.037.00, or any type of electric level indicator).

Code	Flow l	Width cm	Length cm	Height cm (tank+joint)	Max float cm
52.732.35	35	35	50	20 + 3	18
52.732.45	49	35	70	20 + 3	18
52.732.60	63	35	90	20 + 3	18
52.733.49	49	35	50	28 + 3	26
52.733.69	69	35	70	28 + 3	26
52.733.89	89	35	90	28 + 3	26
52.733.60	67	40	60	28 + 3	26
52.733.80	89	40	80	28 + 3	26
52.733.11	112	40	100	28 + 3	26
52.733.12	144	40	120	30 + 3	28
52.733.13	180	40	150	30 + 3	28
52.731.16	16	32	30	17 + 3	15
52.731.27	27	32	50	17 + 3	15
52.731.32	32	32	60	17 + 3	15
52.730.40	30	30	40	25 + 3	23
52.730.50	37	30	50	25 + 3	23
52.730.60	45	30	60	25 + 3	23

Customizable tank sizes available upon request.

◢52.117.00

Universal ground plate for fuel tanks

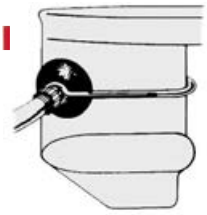
Made of **porous bronze**, designed for fuel tanks, essential for unloading static electricity that may spark off into the fuel causing an explosion during re-fuelling.

Code	Ø mm
52.117.00	55

► Outboard washing caps

Motor Flusher "A"

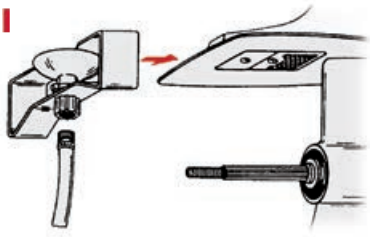
OSCULATI



Code	Description
52.749.00	With universal gardening-type snap joint for all OMC and Mercury stern drives, for all 2- or 4-stroke outboard engines up to 300 HP with water inlet on engine leg.
52.749.01	With universal gardening-type snap joint, for all Volvo Penta stern drives

Motor Flusher "B"

OSCULATI



Code	Description
52.749.02	Motor Fluscher "B". Designed for washing outboard engines (i.e. Mercury/Mariner 6/8/9,9/15 HP, Suzuki 20/65 HP), equipped with water plug **under the propeller racing fin**.

MAX-FLO Earmuff universal outboard motor flusher

52.750.00 Fitted with **rectangular** sunction pads, also suitable for the latest Yamaha models with long gaps.

Universal Earmuff Outboard Motor Flusher

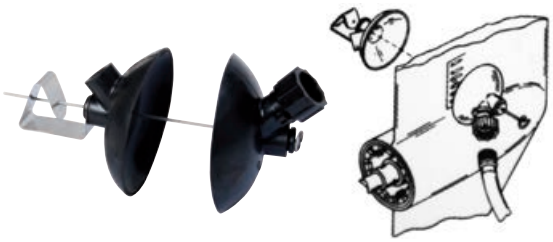
52.749.06 With oval covers, also suitable for motor legs with large cooling slots. Equipped with snap connection for fresh water hose.

Universal Earmuff inboard motor flusher

52.749.04 Professional model fitted with water inflows in both sizes.

VOLVO Earmuff inboard motor flusher

52.749.05 Includes elastic fastening strap.



Motor flusher for Mercury / Mercruiser

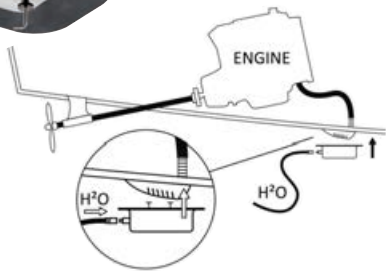
52.749.07 To wash all Mercury and Mercruiser BRAVO engines, with snap adapter. Original ref. 44357Q-2.

Universal flusher for inboard motor

The **rubber** suction pad is fitted over the thru-hull scoop strainer, making a ground lever with a telescopic pipe made of **aluminium**; the water pipe is snapped onto the universal garden-type joint.

Code	Length	cap Ø mm
52.752.01	adjustable from mm 460 to mm 770	140
52.752.02	adjustable from mm 690 to mm 1210	140

OSCULATI



Universal flushing muffs for inboard engines

Fix it above the thru-hull scoop strainer by means of a T-shaped pin through the thru-hull scooper strainer slots. Fitted with a BSP 3/4" fitting that a hose connector for snap-in hose 36.189.04 can be screwed on. Universal for any 3/8" to 2" thru-hull plugs.

Code	⟷ mm
52.749.20	160x97

Motor Flusher “C”

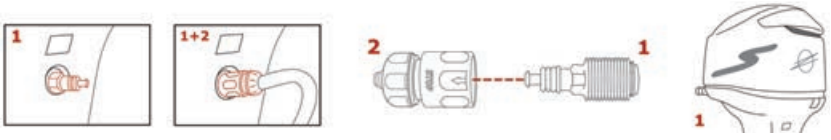
52.749.03 Designed for washing outboard engines Mercury/Mariner 4/5HP, made of **turned brass**.

OSCULATI

Motor flusher D

Washing system for outboard engines equipped with threaded connector. The system consists in a special threaded valve + snap fitting 36.189.02 The valve can be permanently installed on the outboard engine.

Code	Description
52.749.10	Kit for Johnson / Evinrude
52.749.11	Kit for Mercury / Yamaha and all others



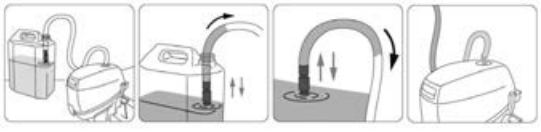
► Accessories and spare parts for outboard

OSCULATI

Manual siphon pump

This siphon pump easily transfers any liquid (water, diesel, petrol, etc.) from a container to another preventing dirt and fatigue.
Place the pump into the container with the liquid and the end of its hose into the transfer container; take care to place the second container at a slightly lower level. Stir the pump in the liquid to let it rise up to the hose gooseneck and make it fall into the other container.
Disconnect the pump from the hose to stop the flow.
Made of copper and supplied with 1.7-m hose. No electricity required, fast, safe and clean.

Code	Net passage mm	Hose Ø mm	Flow l/min
52.739.00	14	15	10
52.739.01	18	19	15



Blue Bag thermo-welded water-proof engine cover

OSCULATI

Preserve **outboard or inboard engine** from creation of sea vegetation (slime, barnacles and other species). It can also be used **to wash the cooling system with fresh water**, without hauling the boat. Easy to install and dismount. Made of tough fabric with double PVC coating to be very durable.

Code		For engines
52.757.01		Up to 80 HP outboard
52.757.02		Over 80 HP outboard + sterndrive units
52.757.03	New	Over 250 HP outboard + sterndrive units

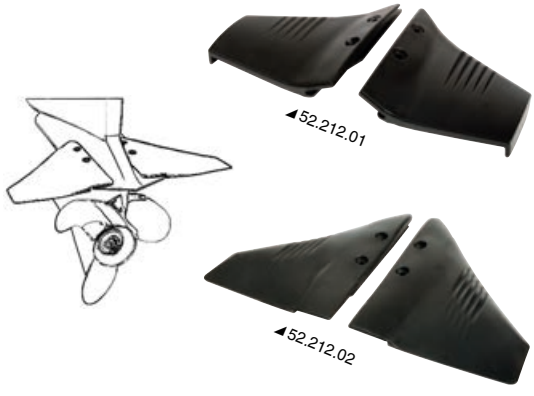
EasyTroller Trolling plate

Exclusive made-in-USA system that slows boats to ideal trolling speed, even as slow as 1 knot. The patented spring hinge design flexes upward to prevent damage to the trolling plate under accidental acceleration. It mounts directly to the cavitation plate of your outboard or outdrive. When lifted during planing, it snaps into position by simply pulling its cable.

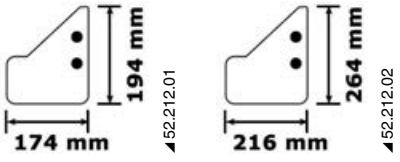
Code	Material	Plate width cm	For engines HP
52.280.00	Marine anodized aluminium and SS	36.38	50/300

Hydroboat stabiliser

Designed to prevent cavitation, reduce fuel consumption, improve stability and handling. Made of high-resistance technopolymer. Easily installed on the anti-cavitation plate.



Code	For engines up to	⟷ mm
52.212.01	50 HP	194x174
52.212.02	200 HP	264x216



HYDROBOAT EVO stabilizers/centre pieces

Made of high-strength technological copolymer, this stabilizer has a new hydrodynamic profile generating the least drag.
They make glide mush easier, prevent cavitation, promote optimum horizontal seating, make the steering wheel more responsive and reduce fuel consumption. Universal for any outboard engines.

Code	Forn engines HP	⟷ mm
52.211.01	40-235	380x205

Hydrofoil STINGRAY Classic

Plastic stabilizer, it doesn't generate friction with water.
Advantages:
- Up to -50% gliding time.
- Reduced bow angle since the outboard engine increases the upward thrust on the stabilizer.
- No pitching.
- No cavitation.
- Stabilization of the boat during navigation.
- Reduced fuel consumption.
- Universal for all outboard engines.

Code	Initials	Colour	For engines HP
52.213.01	JR-1	Black	9.9/40
52.213.03	JR-3	Grey	9.9/40

STINGRAY AIRO hydrofoil, screw mounting

New-generation stabilizer featuring the latest evolution of this kind of products. Designed for vessels and dinghies up to 6 m.

Code	Initials	Colour	For engines HP
52.213.35	AIRO-1	Black	4/350

Hydrofoil STING RAY Starfire - Screwless mounting

Plastic stabilizer, it doesn't generate friction with water.
Advantages:
- Up to -50% gliding time.
- Reduced bow angle since the outboard engine increases the upward thrust on the stabilizer.
- No pitching.
- No cavitation.
- Stabilization of the boat during navigation.
- Reduced fuel consumption.
- Universal for all outboard engines.

Code	Initials	Colour	For engines HP
52.213.11	Starfire-1	Black	40/300
52.213.13	Starfire-3	Grey	40/300

Hydrofoil STING RAY XRIII Junior - Screwless mounting

Very high lift advanced stabilizer.

Plastic stabilizer, it doesn't generate friction with water.
Advantages:
- Up to -50% gliding time.
- Reduced bow angle since the outboard engine increases the upward thrust on the stabilizer.
- No pitching.
- No cavitation.
- Stabilization of the boat during navigation.
- Reduced fuel consumption.
- Universal for all outboard engines.

Code	Initials	Colour	For engines HP
52.213.21	JR-XRIII-1	Black	25/75

Hydrofoil STING RAY XRIII Senior - Screwless mounting

Very high lift advanced stabilizer.

Plastic stabilizer, it doesn't generate friction with water.
Advantages:
- Up to -50% gliding time.
- Reduced bow angle since the outboard engine increases the upward thrust on the stabilizer.
- No pitching.
- No cavitation.
- Stabilization of the boat during navigation.
- Reduced fuel consumption.
- Universal for all outboard engines.

Code	Initials	Colour	For engines HP
52.213.31	SR-XRIII-1	Black	40/300
52.213.33	SR-XRIII-3	Grey	40/300

OUTBOARD ENGINE SPARE PARTS: JOHNSON/EVINRUDE

Original number	Thruster split pin	Thruster plugs	⟷ mm	HP
302804 - 2.5x25	**52.310.02**	-	-	3 spinner - 9.5/15 nut
305296 - 3.2x32	**52.310.03**	-	-	6 spinner
306394 - 3.2x36	**52.310.04**	-	-	18/40 spinner
307949	-	**52.200.00**	Ø 4.7 x 35	6/25
313693 - 2.5x45	**52.310.01**	-	-	2/4 spinner
314502 - 4x25	**52.310.05**	-	-	50/140 nut
324690	-	**52.101.00**	Ø 4.7 x 33	4.5/7.5

Cable

Made of **special nylon** used for ignition.

Code	Ø mm	Roll m
52.049.03	For outboards - 3	100
52.049.04	For outboards - 4	100
52.049.05	For outboards - 5	100
52.049.06	For outboards - 6	100
52.049.35	For outboards - 3.5	100

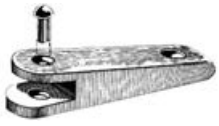
Standard starting handle

Code	Description	Useful
52.049.01	universal ignition handle	**52.049.03; 52.049.04; 52.049.05; 52.049.06; 52.049.35**

Universal spark plug cap

52.575.00 Suitable for all engines (OMC 580339)

Spare wing nut pair



Suitable for Yamaha outboard engines, made of **aluminium**, includes mounting pin.

Code	ORDER BY BOX
52.748.00	2

Spare wing nut for outboard engines Johnson/Evinrude

Made of **black anodized aluminium**; can replace the original plastic ones that have a limited use; include **stainless steel** pin for the installation (ref. OMC A-391421)

Code	ORDER BY BOX
52.747.00	2

Spare wing nut for outboard engines Johnson/Evinrude

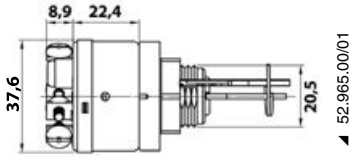
Made of **black anodized aluminium**; include **stainless steel** pin for the installation (ref. OMC 398001).

Code	ORDER BY BOX
52.747.01	2

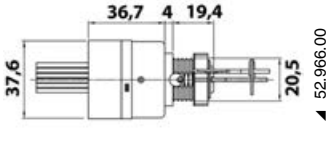
Starting key

Code	Position	Terminals	Description
52.965.00	4 (ACC - OFF - IGN - START)	7	With pressure starter, very versatile, same as General MP4108
52.965.01	3 (OFF - IGN - START)	6	With pressure starter, with no accessory position, same as General 3976, Johson/Evinrude 333931/390133/390129/388175
52.966.00	3 (OFF - IGN - START)	6	With pressure starter, 6 wired cables, same as General 41072, for Mercury

◢ 52.965.00/01



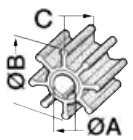
◢ 52.965.00/01



◢ 52.966.00

◢ 52.966.00

► Impellers for outboard engines CEF MARINE

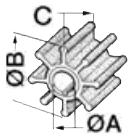


Impellers for outboard engines MERCURY/MARINER

Code	Original number	Manufacturer code	HP (2 strokes)	HP (4 strokes)	Accessories	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.313.00	47-95289/2	396	2,5/3/3,3	-	-			12	41	14	6
52.314.00	47-68988/89980	314	3,5/3,6/4/7,5/9,9 since 1980	-	-			11	32	14.35	6
52.320.01	47-659.57/89981	310	4/4,5/7,5/8/9,8/10	-	-			11.6	32	14.4	6
52.315.00	47-16154-3 47-16154-B	377	3,3/4/5/6 since 1989	4/5/6/25	-			10.25	33.6	14.2	6
52.400.01	47-96305M	325	4/5	-	-			11	40	12.6	6
52.400.03	47-95611M	321	8/15	-	-			14	40	22	6
52.320.00	47-22748	309	6/9,8	-	-			11.6	32	14.4	6
52.318.00	47-42038	318	6/8/10/15	9,9/15	-			13	58.8	11.7	6
52.320.02	47659.58/89982	311	20 (30 2 cycle)	-	G			15.95	51.2	19.05	6
52.320.05	47-85089-1 47-85089-3	315	18/20 (96) 20/25/30/40	25/30/40	-			16	73	12.6	6
52.320.03	47-20268 47-65959	312	30/35/50/60/65/70 (3 cil.) 40/125 (4 cil.)	-	-			19.13	51.8	19	6
52.378.00	47-19453T	378	-	40/60	-			19.25	78.2	25.15	6
52.320.04	47-65960 47-89984 47-89984T4 47-30221	313	65/225+EFI+Optimax	-	G			22.3	60	33.8	6
52.400.11	47-898689	371	-	225	-			22.4	89	31	6
52.301.00	47-43026T2 47-43026-2	301	40/300 HP+Optimax+ Alpha 50/275	from 40 to 275 HP	-			22.4	89	32.5	6
52.300.27	47-888689	370	20/25 HP 1978/1984	-	C			15.94	51.2	19.05	6
52.400.04	47-84797	326	20C/25D/30A	-	-			16.15	69.5	12.72	6
52.344.00	47-436065-2	344	6/8/9,8	4/5/6				12	40	18	6

Accessories: G: gasket; C: key.

Impellers for outboard engines YAMAHA/MARINER



Code	Original number	Manufacturer code	HP (2 stroke)	HP (4 stroke)	Accessories	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.400.10	646-44352-01	324	2	-	-			11.15	47.5	13.7	6
52.322.00	6L5-44352-00	322	3	2.5	-			10	36	14.5	6
52.400.01	6E0/44352-00	325	4/5	4	-			11	40	12.6	6
52.400.03	662-44352-01-00	321	6/8	-	-			14	40	22	6
52.400.00	6G1-44352-00	302	6/8	-	-			11.9	40	18	6
52.368.00	68T-44352-00	368	-	6/8	-			11.6	53	14	6
52.400.02	682-44352-01/00	320	9.9/15	8/9.9	-			13	40	22	6
52.363.00	63V-44352-01	363	9.9/15	8/9.9/15/20	-			12.85	53	14	6
52.400.04	689-44352-02	326	25/30	-	-			16.15	69.5	12.72	6
52.400.08	6L2-44352-00	384	20D/25	-	-			13.97	51.2	19.05	6
52.400.09	6H4-44352-02/00	385	25/30/40/50	25/30/40	G			16.1	51.2	19.05	6
52.352.00	6F5-44352-00	352	40 (90/97)	-	-			15.8	69.7	22.3	6
52.400.05	6H3-44352-00	316	40/50/55/60/70	40/50/60	-			18.05	51.8	19	6
52.400.07	688-44352-03	323	60/75/80/85/90	-	-			20.1	58	30	6
52.364.00	67F-44352-00	364	80/100	75/80/90/100/180	-			20	58.2	34.7	6
52.400.11	6E5-44352-00/01	371	115/300	115/300	-			22.4	89	31	6
52.400.12	6AW-44352-00	500389N		300/350	-			24.6	89	36	6

Accessories. G: gasket.

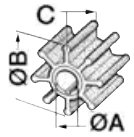
Impellers for outboard engines JOHNSON/EVINRUDE

Code	Original number	Manufacturer code	HP (2 strokes)	HP (4 strokes)	Accessories	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.313.00	114812	396	2/2,3/3/3,3	-	-			12	41	14	6
52.300.09	387361	358	1,5/6	-	-			10.94	38.4	17.8	6
52.300.08	389576/436137	354	4/7	4/5/6 (foot USA)	G			11.2	38.4	17.9	6
52.300.25	386084	355	8/9,9/15 1980	8/9,9/15 (foot USA)	-			12.75	38.4	17.8	6
52.300.26	388702	357	25/35 from 1977 to 1986	-	G			15.95	51.2	19.05	6
52.300.29	389589	345	40/60	-	-			16.04	69.2	22.25	6
52.300.31	389642	305	V4/V6	Sea Drive	N			22.3	89	31.9	6
52.367.00	-	367	-	90/115/140	N			24.4	86	31.7	6
52.300.10	277181/434424	350	3/4/5/5,5/6	-	-			10.93	69	12.72	6
52.300.19	-	329	-	9,9/15(foot Suzuki)	-			13.2	39.3	22	6
52.300.20	375638/389642/ 775518	351	10/15/18/20/25 up to 1978	-	-			12.75	69	12.72	6
52.362.00	-	362	-	25/30/40/50	G			17.1	67	16.5	6
52.365.00	-	365	-	60/70	-			22.2	78.3	26	6
52.353.00	390286	353	40/70	-	-			17.5	51.2	19.05	6
52.336.00	-	336	-	4/5 (foot Suzuki)	-			10	41	14	6
52.300.27	395289	370	20/25/35 since 1978/91	-	C			15.94	51.2	19.05	6

Code	Original number	Manufacturer code	HP (2 strokes)	HP (4 strokes)	Accessories	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.300.28	432941	372	25 (737) 40/50	-	NC			19.15	91.3	25.4	3
52.300.34	396725 432954 437080	303	60/70/75 (since 1989)	-	NBK			19.15	91.5	25.4	6
52.300.35	438592-437059	373	40/70 dal 1995	-	C			19.15	91.3	25.4	3
52.300.32	396809 777214	346	40/50 1986/88	-	C			16.04	70	22.3	6
52.300.33	395864-435748 397131/435821 5001593	308	V4/V6	Sea Drive	CR			22.41	89	32.03	6

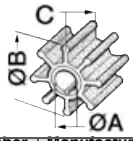
Accessories: G: gasket; C: key; NC: nylon bush + key; NBK: nylon bush + black key; N: nylon bush; CR: key and O ring.

For outboard engines SUZUKI



Code	Original number	Manufacturer code	HP (2 strokes)	HP (4 strokes)	Accessories	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.336.00	17461-98501/98502/ 98503	336	DT2/2,2/4/5/6/8	04-06	-			10	41	14	6
52.300.18	17461-93901; 17461-92D02	319	8/9,9	-	-			12.2	42	20	6
52.300.19	17461-93902/903	329	DT9,9/.15	DF9,9/15	-			13.2	39.3	22	6
52.362.00	17461-96301- 96311-96312	362	DT20/25/30/ 40VE	DF25/3040/50	G			17.1	67	16.5	6
52.361.00	17461-94700-94701	361	DT40VZ-QD/ 50C-D-QD/ 60QD/65QZ-YD	-	-			17.1	67	19	6
52.360.00	17461-95501-95300	360	DT50VE/60YE/ 75VE/85Y- YZ-QD	-	-			20	67.5	19	6
52.365.00	17461-95501- 95300-95301	365	DT90/DT100	DF60/70	-			22.2	78.3	26	6
52.369.00	17461-93J00	393	-	200/225/250	-			24.3	87	39	5
52.320.03	17461-95201	312	DT55/65 (1985/95)	-	-			19.13	51.8	19	6
52.367.00	17461-94511- 94510-90501-90500	367	115/200	90/140	N			24.4	86	31.7	6

Accessories: G: gasket; N: nylon bush.



For outboard engines SELVA

Code	Original number	Manufacturer code	HP (2 strokes)	HP (4 strokes)	Accessories	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.419.95	8095040	376	3,3/4	2,5	-			12.2	48.5	15	6
52.419.96	8095010	375	4/5/6	4/5/6	-			12.2	43	12	6
52.420.01	8095020	387	5/6/8/9,9/15	8/9,9	-			13.2	48	15	6
52.420.02	8095050	386	15/20/25/30	-	-			15.2	53	20.5	6
52.420.03	8095060	304	50/40xs; 60/40xs; 70/40 xs; 70/80/ 90/100	-	-			18.2	58.6	22.5	8
52.400.01	6EO-44352-00	325	-	4	-			11	40	12.6	6
52.363.00	63V-44352-01	363	-	9,9/15/20/115/ 115XSR	-			12.85	53	14	6
52.400.09	6H4-44352-02	385	25J/25Q/30D/ 40H/50D	25/40	G			16.1	51.2	19.05	6
52.400.05	6H3-44352-00	316	25B/60/70	40XS	-			18.05	51.8	19	6
52.400.11	6E5-44352-01	371	da 115 a 300 HP	150/200/225/250	-			22.4	89	31	6
52.368.00	68T-44352-00	368	-	8/9,9	-			11.6	53	14	6
52.364.00	67F-44352-00	364	-	80XS/100	-			20	58.2	34.7	6

Accessories: G: gasket.

For outboard engines TOHATSU

Code	Original number	Manufacturer code	HP (2 stroke)	HP (4 stroke)	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.315.00	369-65021-1	377	4/5	4/5/6			10.25	33.60	14.2	6
52.344.00	3B2-65021-1	344	6/8/9.8	4/5/6			12	40	18	6
52.383.00	334-65021-0	383	9.9/15/18	9.9/15/18			13.97	40.8	23.4	8
52.382.00	345-65021-0	382	25/30/40	25/30			17.2	44.25	20.25	6
52.379.00	3C8-65021-2	379	40/50/70/90	-			17.2	50.4	20.2	6
52.388.00	3C7-65021-1/3B7-65021-2	388	60/70/90/115/140	-			20.3	65.75	35.2	6
52.313.00	-	396	2.5/3.5/4.5	-			12	41	14	6

For outboard engines HONDA

Code	Original number	Manufacturer code	HP (2 strokes)	HP (4 strokes)	Note	Picture	Insert	Ø A mm	Ø B mm	C mm	Blades
52.326.00	19210-ZV4-013	328	-	9,9/15 AH/AK/AM/AN	-			13.15	41	28.55	6
52.327.00	19210-881-A01-02-03	327	-	5/6/7,5/8	-			13.15	41	23	8
52.337.00	19210-ZW1-B02/B04	337	-	75/90/115/130/135/150 by End 1998	-			23.35	87.8	31	8
52.328.00	19210-ZV4-651	343	-	9,9/15	-			14.1	41	28.55	6
52.339.00	19210-ZV7-003	339	-	20/25/30	-			17.2	55.75	20.2	6
52.338.00	19210-ZW5-003	338	-	35/40/45/50	-			17.25	55.75	20.2	6
52.340.00	19210-ZY3-003	391	-	175/225	-			26	89.75	31.3	6
52.348.00	19210-ZW9-A31	348	-	08-10	-			16.2	45.6	14.8	6
52.301.00	19210-ZW1-003	301	-	75/90	N			22.4	89	32.5	6
52.347.00	19210-ZW9-003	347	-	8/10 Power Trust	-			13	45.6	14.8	6

Accessories: N: nylon bush.

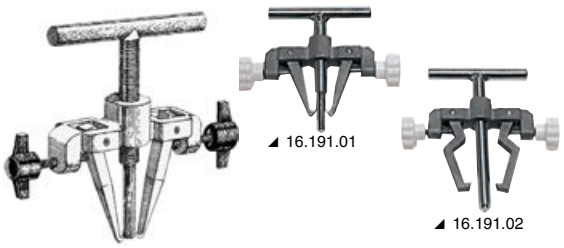
PARSUN outboard engine impeller

Code	Original ref.	Manufacturer's code	HP (2 strokes)	HP (4 strokes)	Accessorie	Pictures	Insert	Ø A mm	Ø B mm	C mm	Blades
52.322.00	6L5-44352-00	322	-	2.6	-			10	36	14.5	6
52.400.01	6E0/44352-00	325	-	4/5	-			11	40	12.6	6
52.363.00	63V-44352-01	363	-	9.9/15	-			12.85	53	14	6
52.400.09	6H4-44352-02/00	385	-	20/25	G			16.1	51.2	19.05	6
52.315.00	47-16154-3 47-16154-B	377	-	4/5/6/25	-			10.25	33.6	14.2	6
52.344.00	47-436065-2	344	-	4/5/6	-			12	40	18	6

Stainless steel extractors for neoprene rotors

Used to remove the rotor without damaging the pump's housing.

Code	For pumps
16.191.01	for pumps up to Ø 1"
16.191.02	for pumps over to Ø 1"



► Acrylic Spray Paint - Marine Motor Paint with Eco-Friendly propellant

These paints are made according to the Manufactures' specifications. They are equipped with a spray valve that prevents spray paint drops due to an inexact pressure on the spray nozzle therefore they can be used successfully by inexperienced operator.

Acrylic spray paints for AIFO/FPT inboard engines

Code	Colour	Year	Spray can ml	PACKAGE
52.595.01	Red	1984 and after	400	6
52.595.02	White	All	400	6

Acrylic spray paints for MERCURY outboard engines and stern drives

Code	Color	Year	Spray can ml	PACKAGE
52.125.80	Black	all	400	6
52.560.50	- Zinc premer for deck	all	400	6

Acrylic spray paints for CATERPILLAR engines

Code	Colour	Year	Spray can ml	PACKAGE
52.692.28	Yellow	All	400	6
52.692.27	White	All	400	6

Acrylic spray paints for EVINRUDE outborad engines

Code	Colour	Year	Spray can ml	PACKAGE
52.560.50	- Zinc primer (deck)	All	400	6
52.692.50	White	1977 and later	400	6
52.695.40	Light blue	1978/1987	400	6
52.696.10	White	1981 and later	400	6
52.698.30	Blue	1986 and later	400	6

Acrylic spray paints for JOHNSON outboard engines

Code	Colour	Year	Spray can ml	PACKAGE
52.560.50	- Zinc primer (deck)	All	400	6
52.692.50	White	1971/1980	400	6
52.696.10	White	1981 and later	400	6
52.696.40	Grey "GT"	1988 and later	400	6

Acrylic spray paints for YAMAHA engines

Code	Colour	Year	Spray can ml	PACKAGE
52.560.50	- Zinc primer (deck)	All	400	6
52.695.10	Metallized blue	1974/1985	400	6
52.695.11	Metallized blue	1984/1993	400	6
52.695.12	Metallized grey	1994 and later	400	6
52.695.14	White	since 2010	400	6

Acrylic spray paints for MARINER engines

Code	Color	Year	Spray can ml	PACKAGE
52.560.50	- zinc primer (deck)	all	400	6
52.695.60	grey	1977 and after	400	6
52.125.80	black	all (leg piece)	400	6

Acrylic spray paints for YANMAR engines

Code	Colour	Year	Spray can ml	PACKAGE
52.692.20	Metallized grey	All	400	6

Acrylic spray paints for NANNI engines

Code	Colour	Year	Spray can ml	PACKAGE
52.692.26	Metallized blue	All	400	6

Acrylic spray paints for OMC stern drives

Code	Colour	Year	Spray can ml	PACKAGE
52.692.50	White	All	400	6

Acrylic spray paints for HONDA engines

Code	Colour	Year	Spray can ml	PACKAGE
52.410.00	Metallic grey	Up to 2012	400	6
52.410.01	Silver	From 2013	400	6

Acrylic spray paints for SELVA engines

Code	Colour	Year	Spray can ml	PACKAGE
52.695.12	Grey	Since 1994	400	6
52.695.13	Metallized blue (4 S)	All	400	6
52.400.71	Metallized blue (2 S)	All	400	6
52.400.72	White	Since 2010	400	6

Acrylic spray paints for TOHATSU engines

Code	Colour	Year	Spray can ml	PACKAGE
52.692.29	Metallized grey	All	400	6
52.692.30	Cobalt-blue	All	400	6
52.692.31	Dark blue (aquamarine blue)	All	400	6

Acrylic spray paints for SUZUKI engines

Code	Colour	Year	Spray can ml	PACKAGE
52.400.67	Grey	1989 and later	400	6
52.400.90	Pearl nebular black	2017 and later	400	6
52.400.91	Cool white	2000 and later	400	6
52.400.92	- Clear	All	400	6
52.400.93	Dark gray (4 S)	All	400	6

Acrylic spray paints for VOLVO Penta engines

Code	Colour	Year	OEM Ref.	Spray can ml	PACKAGE
52.560.50	- zinc primer (deck)	all	1141562	400	6
52.693.01	green (inboard)	1979 and after	1141566	400	6
52.693.02	aquamatic grey	1985 and after	1141575	400	6
52.693.03	red	1970 and after	827501	400	6
52.693.04	metallized grey Grigio metallizzato SX, DPS, FWD, IPS[A]*	1995 and after	3851219	400	6
52.693.05	silver Argento DPG, DPH, DPR, S-DRIVES, IPS[A]**	all	889968	400	6
52.693.06	silver DPX	all	3851220	400	6
52.125.80	shiny black	all	3851221	400	6
52.400.92	- shiny transparent [B]	all	827502	400	6

* *IPS 1st series A, B, C (up to SN 3194009615)*

** *IPS 15, 2, 3, 30 and IPS "D" and following (from SN 3194009610)*

A+B: genuine VOLVO

Acrylic spray paints for all VETUS engines

Code	Color	Spray can ml	PACKAGE
52.400.94	Yellow	400	6

Acrylic spray paints for various engines

Code	Color	Can ml	PACKAGE
52.400.92	- transparent and glossy	400	6

Acrylic spray paint fo all VM engines

Code	Colour	Year	Spray can ml	PACKAGE
52.692.35	Blue-Grey	All	400	6

Acrylic spray paints for CUMMINS engines

Code	Colour	Year	Spray can ml	PACKAGE
52.596.00	White	All	400	6

Acrylic spray paints for FLATTING - transparent for wood surfaces

Code	Colour	Spray can ml	PACKAGE
52.560.40	- Transparent	400	6

► Paints for dinghy and cushion servicing

Mimic Paint spray to restore PVC/neoprene

Flexible PVC-based paint ideal to restore PVC or neoprene dinghies, fender profiles, faux-leather upholstery and any flexible surface.

Code	Colour	Can ml
52.570.01	White RAL 9010	400
52.570.02	Black RAL 9005	400
52.570.03	Ivory RAL 1015	400
52.570.04	Light grey RAL 7035	400
52.570.05	Medium grey RAL 7046	400
52.570.06	Blue RAL 5005	400
52.570.07	- Clear	400

► SOLAS aluminium propellers

MODELS COMPLYING WITH THE GENUINE PRODUCTS

SOLAS

For HONDA engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.10	7.25x6	-	Plastic BF 2.3 D
52.305.12	7.87x6.75	-	BF 5A
52.305.13	7.87x7.50	-	
52.305.55	9.25x8	8	9.9A and 15A, 8D, 10D, 15D and 20D
52.305.56	9.25x9	8	
52.305.57	9.25x10	8	
52.305.64	9.25x11	8	
52.511.01	9.90x10	10	25/30
52.511.02	9.90x11	10	
52.511.03	9.90x12	10	
52.305.58	11.60x11	13	40/50/60 and BF40A/40D/50D
52.305.59	11.40x12	13	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.60	11.10x13	13	BF40/50/60 and BF40A/40D/50D
52.305.61	11.10x14	13	
52.305.62	11x15	13	
52.305.63	11x16	13	
52.305.81	11.80x11	13	oversized blade BF40/50/60 and BF40E
52.305.82	11.60x12	13	
52.305.83	11.60x13	13	
52.305.84	11.60x14	13	
52.305.85	11.40x15	13	
52.305.86	11.40x16	13	
52.305.15	13.75x13	15	75/90/115 (up to 2009) and 130
52.305.16	13.50x15	15	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.17	13.25x17	15	75/90/115 (up to 2009) and 130
52.305.18	13x19	15	
52.305.19	13x21	15	
52.305.71	15x15	15	115 (since 2011) and 135/150/175/200/225/250
52.305.72	15x15 L	15	
52.305.73	14.80x17	15	
52.305.74	14.80x17 L	15	
52.305.75	14.50x19	15	
52.305.76	14.50x19 L	15	
52.305.77	14.30x21	15	
52.305.78	14.30x21 L	15	

For MERCURY-MARINER-MERCRUISER engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.205.01	7.30x6	-	Plastic 2.5/3.5 4S
52.205.07	7.80x7	12	4/5/6 (4S since 2011)
52.205.09	7.80x8	12	
52.205.10	7.80x9	12	
52.509.01	8.5x7	12	8/9.8 (4S since 2007)
52.509.02	8.5x8	12	
52.509.03	8.5x9	12	
52.205.17	9.25x8	8	6/8/9.9/15 (2S) and 9.9/15 (4S up to2006)
52.205.18	9.25x9	8	
52.205.19	9.25x10	8	
52.510.01	9.25x8	14	15/20 (4S since 2007) - 9.9 Big Foot (4S since 2007)
52.510.02	9.25x9	14	
52.510.03	9.25x10	14	
52.305.21	10.50x11	10	25 (2S) and 25 (4S up to 2006) - 9.9/15 Big Foot (4S up to 2006)
52.305.22	10.30x12	10	
52.305.23	10.10x13	10	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.24	10x14	10	25 (2S) and 25 (4S up to 2006) - 9.9/15 Big Foot (4S up to 2006)
52.511.01	9.9x10	10	25/30 (4S since 2007)
52.511.02	9.9x11	10	
52.511.03	9.9x12	10	
52.305.32	11.60x11	13	40/50/60 (2S) and 30/40/50/60 (4S) (for Mercury 40 XR see Tohatsu 52.305.88/92)
52.305.33	11.40x12	13	
52.305.34	11.10x13	13	
52.305.35	11.10x14	13	
52.305.36	11x15	13	
52.305.37	11x16	13	
52.305.26	11.80x11	13	Special oversized blade 4 strokes 40 (4 cyl. - 4S) and 50/60 (4S) F40 EFI ORION
52.305.27	11.60x12	13	
52.305.28	11.60x13	13	
52.305.29	11.60x14	13	
52.305.30	11.40x15	13	
52.305.70	14x11	15	40 BIG-FOOT 75/80/90/100/115/125 (2 and 4 strokes) - F40 EFI Pro-New

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.65	13.75x13	15	40 BIG-FOOT 75/80/90/100/115/125 (2 and 4 strokes) - F40 EFI Pro-New
52.305.66	13.50x15	15	
52.305.67	13.25x17	15	
52.305.68	13x19	15	
52.305.69	13x21	15	
52.305.41	15x15	15	135/150/175/200/225/250/300 (2S and 4S), Mercruiser, Alpha One, Bravo One
52.305.42	15x15 L	15	
52.305.43	14.80x17	15	
52.305.44	14.80x17 L	15	
52.305.45	14.50x19	15	
52.305.46	14.50x19 L	15	
52.305.47	14.30x21	15	
52.305.48	14.30x21 L	15	
52.305.39	15.30x19	15	
52.305.40	15.30x19 L	15	

For SUZUKI engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.505.90	7.85x7	10	4-5-6 (4s)
52.506.01	9.25x8	10	DT 9.9/15/20 (2S) and DF 8/9/15/20 (4S)
52.506.02	9.25x9	10	
52.506.03	9.25x10	10	
52.505.01	10.50x11	10	20/25/30 (2S) - 25/30 (4S)
52.505.02	10.30x12	10	
52.505.03	10.10x13	10	
52.505.04	10x14	10	
52.405.48*	14x11	15	DF40ARI
52.405.49	13,75x13	15	
52.305.58	11.60x11	13	40/50/55/60/65 (2S) and 40/50/60 (4S)
52.305.59	11.40x12	13	
52.305.60	11.10x13	13	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.61	11.10x14	13	40/50/55/60/65 (2S) and 40/50/60 (4S)
52.305.62	11x15	13	
52.305.63	11x16	13	
52.305.81	11.80x11	13	Special oversized blade 40/50/60 (4S)
52.305.82	11.60x12	13	
52.305.83	11.60x13	13	
52.305.84	11.60x14	13	
52.205.60	13.75x13	13	70-140 (2S) and 60/70 (4S old)
52.205.62	13.50x15	13	
52.205.64	13.25x17	13	
52.205.66	13x19	13	
52.504.10	13.87x17	15	70 (4S since 2012) and 80-140 (4S)
52.504.11	13.87x19	15	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.504.12	13.87x21	15	70 (4S since 2012) and 80-140 (4S)
52.504.03	13.75x17	15	4 BLADES (special oversized blade) 70 (4S since 2012) and 80-140 (4S)
52.504.04	13.75x19	15	
52.504.05	13.75x21	15	
52.504.20	15.8x15	15	150/250 (4S)
52.504.21	15.8x15L	15	
52.504.22	15.5x17	15	
52.504.23	15.5x17L	15	
52.504.24	15.3x19	15	
52.504.25	15.3x19L	15	
52.504.26	15.3x21	15	
52.504.27	15.3x21L	15	

For YAMAHA engines

Code	Ø and pitch	No. of teeth	Engine
52.303.90	7.25x5	-	2.5 - 5 (2S/4S)
52.303.91	7.50x7	-	
52.304.01	8.50x7	7	9.9 (4S since 2008) and 6 - 8 (2 and 4 strokes)
52.304.02	8.50x8	7	
52.304.03	8.50x9	7	
52.305.55	9.25x8	8	9.9 - 15 (2S) and 9.9 (4S up to 2007) and 15 - 20 (4S)
52.305.56	9.25x9	8	
52.305.57	9.25x10	8	
52.305.64	9.25x11	8	
52.405.01	9.90x9	10	20 (2S) and 25 (2S and 4S) and Mariner 30 (2S)
52.405.02	9.90x10	10	
52.405.03	9.90x11	10	
52.405.04	9.90x12	10	
52.405.05	9.90x13	10	
52.305.58	11.60x11	13	40/50/55 and TOP 700 (2S) + 30 and 40 (3 cyl. 4S) + 40 (4 cyl 4S) + 50/60 (4S)

Code	Ø and pitch	No. of teeth	Engine
52.305.59	11.40x12	13	40/50/55 and TOP 700 (2S) + 30 and 40 (3 cyl. 4S) + 40 (4 cyl 4S) + 50/60 (4S)
52.305.60	11.10x13	13	
52.305.61	11.10x14	13	
52.305.62	11x15	13	
52.305.63	11x16	13	
52.305.81	11.80x11	13	40 (4 cyl. - 4S) and 50 - 60 (4S) special oversized blade 4S
52.305.82	11.60x12	13	
52.305.83	11.60x13	13	
52.305.84	11.60x14	13	
52.405.48	14x21	15	60/70/75/90/100/115/130/140 (2S) and 40G/70/80/90/100/115 (4S)
52.405.49	13.75x13	15	
52.405.50	13.50x15	15	
52.405.60	13.50x15 L	15	60/70/75/90/100/115/130/140 (2S) and 40G/70/80/90/100/115/130 (4S)
52.405.52	13.25x17	15	
52.405.62	13.25x17 L	15	

Code	Ø and pitch	No. of teeth	Engine
52.405.54	13 x19	15	60/70/75/90/100/115/130/140 (2S) and 40G/70/80/90/100/115/130 (4S)
52.405.55	13x21	15	
52.405.56*	13,50x13	15	60/70/75/90/100/115/130/140 (2T) and 40G/70/80/90/100/115A/130A (4S)
52.405.57*	13,40x15	15	
52.405.58*	13,20x17	15	
52.405.59*	13,10x19	15	
52.404.01	15x15	15	150/300 (2S and 4S) + Stern drive
52.404.02	15x15 L	15	
52.404.03	14.80x17	15	
52.404.04	14.80x17 L	15	
52.404.05	14.50x19	15	
52.404.06	14.50x19 L	15	
52.404.07	14.30x21	15	
52.404.08	14.30x21 L	15	

* *Propeller with blade similar to the original K type.*

For JOHNSON - EVINRUDE engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.205.01	7.30x6	-	Plastic 3.5 (4S since 2011)
52.205.02	8x7	-	6/7.5/8 (2S since 1980)
52.205.03	8.50x9	-	
52.505.90	7.85x7	-	5/6HP (4S from 1997 to 2007)
52.205.21	7.87x7	-	
52.205.07	7.80x7	12	4/6 (4S) since 2011
52.205.09	7.80x8	12	
52.205.10	7.80x9	12	
52.509.01	8.50x7	12	9.8 (10R 4S since 2011)
52.509.02	8.50x8	12	
52.509.03	8.50x9	12	
52.510.01	9.25x8	14	15HP 4S since 2011
52.510.02	9.25x9	14	
52.510.03	9.25x10	14	
52.205.44	9.25x8	13	9.9/15 (2S) and 9.9/15 (4S up to 2001)
52.205.04	9.25x9	13	
52.205.43	9.25x10	13	
52.506.01	9.25x8	10	9.9/15 (4S from 2002 to 2007)

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.506.02	9.25x9	10	9.9/15 (4S from 2002 to 2007)
52.506.03	9.25x10	10	
52.205.11	10.50x11	14	20/25/30/35 (2S) - 25/30 E-TEC
52.205.12	10.30x12	14	
52.205.13	10.10x13	14	
52.305.50	12.50x13	13	40/50/60 (2S) + 737
52.305.51	12.50x14	13	
52.305.52	12.25x15	13	
52.305.54	12x17	13	
52.305.58	11.60x11	13	40/50/60 (4S)
52.305.59	11.40x12	13	
52.305.60	11.10x13	13	
52.305.61	11.10x14	13	
52.305.62	11x15	13	
52.305.63	11x16	13	
52.305.81	11.80x11	13	Special oversized blade 40/50/60 (4S)
52.305.82	11.60x12	13	
52.305.83	11.60x13	13	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.84	11.60x14	13	Special oversized blade 40/50/60 (4S)
52.305.85	11.40x15	13	
52.305.86	11.40x16	13	
52.205.60	13.75x13	13	40/50/60/75/90/115 (Evinrude E-TEC) and 70/75/90/100/115/120/140 (Evinrude, Johnson 2S)
52.205.62	13.50x15	13	
52.205.64	13.25x17	13	
52.205.66	13x19	13	
52.504.03	13.75x17	15	90/115/140 4-blade propeller (4S)
52.504.04	13.75x19	15	
52.504.05	13.75x21	15	
52.504.10	13.87x17	15	70/90/115/140 3 blades (4S)
52.504.11	13.87x19	15	
52.504.12	13.87x21	15	
52.206.03	14.80x17	15	130/150/175/200/225/250/275/300 (Evinrude-Jonhson 2S and Evinrude E-TEC) and Cobra 800 and King Cobra (up to 1994, with 15-tooth lap joint)
52.206.05	14.50x19	15	
52.206.07	14.30x21	15	

For SELVA engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.304.01	8.50x7	7	8 Ray (4S) 9.9 Pike (4S)
52.304.02	8.50x8	7	
52.304.03	8.50x9	7	
52.305.55	9.25x8	8	9.9 (4S up to 2007) 15/20 (4S Wahoo)
52.305.56	9.25x9	8	
52.305.57	9.25x10	8	
52.305.64	9.25x11	8	
52.405.01	9.9x9	10	25 (4S Moray + King Fish)
52.405.02	9.9x10	10	
52.405.03	9.9x11	10	
52.405.04	9.9x12	10	
52.305.58	11.60x11	13	40/50 (Manta - Barracuda) - 40 EFI (4S Arvana, 747 cc) - 40/60 EFI (4S Dorado, 996 cc)
52.305.59	11.40x12	13	
52.305.60	11.10x13	13	
52.305.61	11.10x14	13	
52.305.62	11x15	13	
52.305.63	11x16	13	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.305.81	11.80x11	13	40 EFI (4S Arvana, 747 cc) - 40/60 EFI (4S Dorado, 996 cc)
52.305.82	11.60x12	13	
52.305.83	11.60x13	13	
52.305.84	11.60x14	13	
52.305.85	11.40x15	13	
52.305.86	11.40x16	13	
52.405.48	14x11	15	40/60 (4T Morena) - 80/100 (4T Marlin) - 115 (4T Narwal/Tarpon)
52.405.49	13.75x13	15	
52.405.50	13.50x15	15	
52.405.60	13.50x15 L	15	
52.405.52	13.25x17	15	
52.405.62	13.25x17 L	15	
52.405.54	13x19	15	
52.405.55	13x21	15	
52.404.01	15x15	15	150 (4S Killer Whale) - 200/225 (4S Grey/Fin Whale) - 250 (4S Blue Whale)
52.404.02	15x15 L	15	
52.404.03	14.80x17	15	

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.404.04	14.80x17 L	15	150 (4S Killer Whale) - 200/225 (4S Grey/Fin Whale) - 250 (4S Blue Whale)
52.404.05	14.50x19	15	
52.404.06	14.50x19 L	15	
52.404.07	14.30x21	15	
52.404.08	14.30x21 L	14	
52.205.11	10.50x11	14	20/25/30/45 (2S)
52.205.12	10.30x12	14	
52.205.13	10.10x13	13	
52.305.50	12.50x13	13	40/50/60 (2S)
52.305.51	12.50x14	13	
52.305.52	12.25x15	13	
52.305.54	12x17	13	
52.205.60	13.75x13	13	70/80/90/100 (2S)
52.205.62	13.50x15	13	
52.205.64	13.25x17	13	
52.205.66	13x19	13	

Selva 4 strokes, see Yamaha 4 strokes, same power.

For TOHATSU engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.205.01	7.30x6	12	Plastic 2.5/3.5
52.205.07	7.80x7	12	5 (2TS) - 4/5/6 (4S)
52.205.09	7.80x8	12	
52.205.10	7.80x9	12	
52.509.01	8.50x7	12	6/8/9.8 (2S) and 8/9.8 (4S)
52.509.02	8.50x8	12	
52.509.03	8.50x9	12	
52.510.01	9.25x8	14	9.9/15/18 (2 and 4 strokes) - 15/20 (4S)
52.510.02	9.25x9	14	9.9/15/18 (2 and 4 strokes) - 15/20 (4S)
52.510.03	9.25x10	14	
52.511.01	9.90x10	10	25/30 (2S and 4S) and Maxi (2S)
52.511.02	9.90x11	10	
52.511.03	9.90x12	10	
52.305.88	11.60x11	13	40/50/60 (2 and 4 strokes) and Corsa (2S) and Mercury 40 XR (2T)
52.305.89	11.40x12	13	
52.305.90	11.10x13	13	
52.305.91	11.10x14	13	40/50/60 (2 and 4 strokes) and Corsa (2S) and Mercury 40 XR (2T)
52.305.92	11x15	13	
52.405.48	14x11	15	70 (1999) /75/90/ 115/120/140 (2002)
52.405.49*	13.75x13	15	
52.405.50*	13.50x15	15	
52.405.52*	13.25x17	15	
52.405.54*	13x19	15	

* *For engines since 2003, use kit TD-RBKT.*

For PARSUN engines

Code	Ø and pitch	No. of broaches (teeth)	Engine
52.303.90	7.25x5	-	F 2.6/4/5 - T 2.5/3.6
52.303.91	7.50x7	-	
52.304.01	8.50x7	7	F 6/8/9.8
52.304.02	8.50x8	7	
52.304.03	8.50x9	7	
52.205.07	7.80x7	12	T 4/5/5.8/6/8/9.8
52.205.09	7.80x8	12	
52.205.10	7.80x9	12	
52.305.55	9.25x8	8	F 9.9/15 - T 9.9/15
52.305.56	9.25x9	8	
52.305.57	9.25x10	8	
52.305.64	9.25x11	8	
52.405.01	9.90x9	10	F 20/25 - T 20/25/30
52.405.02	9.90x10	10	
52.405.03	9.90x11	10	
52.405.04	9.90x12	10	
52.405.05	9.90x13	10	
52.305.58	11.60x11	13	T 35/40
52.305.59	11.40x12	13	
52.305.60	11.10x13	13	
52.305.61	11.10x14	13	
52.305.62	11x15	13	
52.305.63	11x16	13	
52.305.81	11.60x11	13	
52.305.82	11.60x12	13	T 35/40
52.305.83	11.60x13	13	
52.305.84	11.60x14	13	
52.405.49	13.75x13	15	60 - 130
52.405.50	13.50x15	15	
52.405.60	13,50x15 L	15	
52.405.52	13.25x17	15	
52.405.62	13,25x17 L	15	
52.405.54	13x19	15	
52.405.55	13x21	15	

► SOLAS stainless steel propellers

SOLAS

For YAMAHA engines

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.519.02	10 3/4 x 10	-		10	-	20 (2S), 25 (2S and 4S)
52.519.03	10 1/2 x 11	-		10	-	
52.519.04	10 1/4 x 12	-		10	-	
52.520.01	11 5/8 x 11	-		13	-	40, 50, 55 e Top 700 (2S); 30B and 40F (3 cyl. 4S), 40D (4 cyl. 4S), 50 and 60 (4S)
52.520.02	11 3/8 x 12	-		13	-	
52.520.04	11 1/8 x 13	-		13	-	
52.520.06	11 1/8 x 14	-		13	-	
52.522.02	13 1/2 x 15	-		15	52.537.00*	60, 70, 75, 90, 100, 115, 130 and 140 (2S), 40G, 70, 80, 90, 100 and 115 (4S)
52.522.22	13 1/2 x 15L	-		15	52.537.00*	
52.522.04	13 1/4 x 17	-		15	52.537.00*	
52.522.24	13 1/4 x 17L	-		15	52.537.00*	
52.522.06	13 x 19	-		15	52.537.00*	
52.522.26	13 x 19 L	-		15	52.537.00*	

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.532.02	14 1/4 x 17	-		15	52.537.01	150, 175, 200, 225, 250 and 300 V6 (2S and 4S)
52.532.03	14 1/4 x 17L	-		15	52.537.01	
52.532.04	14 x 19	52.533.05	14 1/8 x 19	15	52.537.01	
52.532.05	14 x 19L	52.533.06	14 1/8 x 19L	15	52.537.01	
52.532.06	14 x 21	52.533.07	14 x 21	15	52.537.01	
52.532.07	14 x 21L	52.533.08	14 x 21 L	15	52.537.01	
52.532.50	16 x 19	-		15	52.537.10	300 V8 (4S) and 350 (4S)
52.532.51	16 x 19L	-		15	52.537.10	
52.532.52	15 3/4 x 21	-		15	52.537.10	
52.532.53	15 3/4 x 21L	-		15	52.537.10	
52.532.54	15 5/8 x 23	-		15	52.537.10	
52.532.55	15 5/8 x 23L	-		15	52.537.10	

* *On 115 (4S) use mounting kit 52.537.01*

For MERCURY and MERCRUISER engines

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.520.01	11 5/8 x 11	-		13	52.536.03	40/50 and 60 (2S); 30/40/50 and 60 (4S)
52.520.02	11 3/8 x 12	-		13	52.536.03	
52.520.04	11 1/8 x 13	-		13	52.536.03	
52.520.06	11 1/8 x 14	-		13	52.536.03	
52.520.01	11 5/8 x 11	-		13	52.536.06	40 XR (Tohatsu)
52.520.02	11 3/8 x 12	-		13	52.536.06	
52.520.04	11 1/8 x 13	-		13	52.536.06	
52.520.06	11 1/8 x 14	-		13	52.536.06	
52.522.02	13 1/2 x 15	-		15	52.537.03	40 (Big foot) /75/ 80/90/100/115 and 125 (2S and 4S) F40EFI Orion and F40EFI Pro new
52.522.22	13 1/2 x 15L	-		15	52.537.03	
52.522.04	13 1/4 x 17	-		15	52.537.03	
52.522.24	13 1/4 x 17L	-		15	52.537.03	
52.522.06	13x19	-		15	52.537.03	
52.522.26	13x19L	-		15	52.537.03	

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.532.02	14 1/4 x 17	-		15	52.537.03	135/150/175/200/ 225/250 and 300 (2S and 4S) Mercruiser, Alpha One and bravo One
52.532.03	14 1/4 x 17L	-		15	52.537.03	
52.532.04	14x19	52.533.05	14 1/8 x 19	15	52.537.03	
52.532.05	14x19L	52.533.06	14 1/8 x 19L	15	52.537.03	
52.532.06	14x21	52.533.07	14 x 21	15	52.537.03	
52.532.07	14x21L	52.533.08	14 x 21L	15	52.537.03	
52.532.08	16x17	-		19	52.537.11	Verado 300/350 HP, Pro XS 225/250 HP
52.532.09	16x17L	-		19	52.537.11	
52.532.50*	16x19	-		19	52.537.11	
52.532.51*	16x19L	-		19	52.537.11	
52.532.52*	15 3/4 x 21	-		19	52.537.11	
52.532.53*	15 3/4 x 21L	-		19	52.537.11	
52.532.54*	15 5/8 x 23	-		19	52.537.11	
52.532.55*	15 5/8 x 23L	-		19	52.537.11	

* *1.25' axle.*

For SUZUKI engines

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.520.01	11 5/8 x 11	-		13	-	40, 50, 55, 60 and 65 (2S); 40, 50 and 60 (4S)
52.520.02	11 3/8 x 12	-		13	-	
52.520.04	11 1/8 x 13	-		13	-	
52.520.06	11 1/8 x 14	-		13	-	
52.522.02	13 1/2 x 15	-		13	**52.537.07**	75 to 140 (2S); 60 and 70 (4S old)
52.522.22	13 1/2 x 15L	-		13	**52.537.07**	
52.522.04	13 1/4 x 17	-		13	**52.537.07**	
52.522.24	13 1/4 x 17L	-		13	**52.537.07**	
52.522.06	13 x 19	-		13	**52.537.07**	
52.522.26	13 x 19L	-		13	**52.537.07**	
52.523.01	13 7/8 x 17	-		15	-	70 (4S since 2012), 80, 90, 100, 115 and 140
52.523.11	13 7/8 x 17L	-		15	-	
52.523.02	13 7/8 x 19	-		15	-	
52.523.12	13 7/8 x 19L	-		15	-	

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.523.03	13 7/8 x 21	-		15	-	70 (4S since 2012), 80, 90, 100, 115 and 140
52.523.13	13 7/8 x 21L	-		15	-	
52.532.02	14 1/4 x 17	-		15	**52.537.05**	150, 175, 200, 225 and 250
52.532.03	14 1/4 x 17L	-		15	**52.537.05**	
52.532.04	14 x 19	**52.533.05**	14 1/8 x 19	15	**52.537.05**	
52.532.05	14 x 19L	**52.533.06**	14 1/8 x 19L	15	**52.537.05**	
52.532.06	14 x 21	**52.533.07**	14 x 21	15	**52.537.05**	
52.532.07	14 x 21L	**52.533.08**	14 x 21L	15	**52.537.05**	
52.532.50	16 x 19	-		15	**52.537.05**	DF250, DF300
52.532.51	16 x 19L	-		15	**52.537.05**	
52.532.52	15 3/4 x 21	-		15	**52.537.05**	
52.532.53	15 3/4 x 21L	-		15	**52.537.05**	
52.532.54	15 5/8 x 23	-		15	**52.537.05**	
52.532.55	15 5/8 x 23L	-		15	**52.537.05**	

For TOHATSU engines

3-blade type		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch			
52.520.01	11 5/8 x 11	13	**52.536.06**	40/50/60 (2S and 4S); Corsa (2S); and Mercury 40 XR (2T)
52.520.02	11 3/8 x 12	13	**52.536.06**	
52.520.04	11 1/8 x 13	13	**52.536.06**	
52.520.06	11 1/8 x 14	13	**52.536.06**	
52.522.02	13 1/2 x 15	15	**52.537.09**	70 (since 1999) /75/90/ 115/120 and 140

3-blade type		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch			
52.522.22	13 1/2 x 15L	15	**52.537.09**	70 (since 1999) /75/90/ 115/120 and 140
52.522.04	13 1/4 x 17	15	**52.537.09**	
52.522.24	13 1/4 x 17L	15	**52.537.09**	
52.522.06	13 x 19	15	**52.537.09**	

For VOLVO PENTA SX engines

3 blades		Mounting kit	Engine
Code	Ø and pitch		
52.532.02	14 1/4 x 17	**52.537.06**	VE Volvo Pensta SX and OMC King Cobra (from 1994 on, with 19-tooth fitting)
52.532.03	14 1/4 x 17L	**52.537.06**	
52.532.04	14 x 19	**52.537.06**	

3 blades		Mounting kit	Engine
Code	Ø and pitch		
52.532.05	14 x 19L	**52.537.06**	VE Volvo Pensta SX and OMC King Cobra (from 1994 on, with 19-tooth fitting)
52.532.06	14 x 21	**52.537.06**	
52.532.07	14 x 21L	**52.537.06**	

For SELVA engines

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.519.02	10 3/4 x 10	-		10	-	25hp (4S Moray) and 25hp (4S KingFish)
52.519.03	10 1/2 x11	-		10	-	
52.519.04	10 1/4 x 12	-		10	-	
52.520.01	11 5/8 x 11	-		13	-	Manta 40 (4S); Barracuda 40/50 (4S); 40hp EFI (4S) (Aruana, 747cc); 40/ 60hp EFI (4S) (Dorado, 996cc)
52.520.02	11 3/8 x 12	-		13	-	
52.520.04	11 1/8 x 13	-		13	-	
52.520.06	11 1/8 x 14	-		13	-	
52.522.02	13 1/2 x 15	-		15	**52.537.00***	4 Strokes: 40/60hp EFI murena; 80/ 100hp EFI Marlin; 115hp Narwhal; 115hp EFI Tarpon
52.522.22	13 1/2 x 15L	-		15	**52.537.00***	
52.522.04	13 1/4 x 17	-		15	**52.537.00***	
52.522.24	13 1/4 x 17L	-		15	**52.537.00***	
52.522.06	13 x 19	-		15	**52.537.00***	
52.522.26	13 x 19L	-		15	**52.537.00***	

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.532.02	14 1/4 x 17	-		15	**52.537.01**	150hp EFI 4S Killer Whale; 200/225hp EFI 4 Grey / Fin Whale; 250hp EFI 4S Blue Whale
52.532.03	14 1/4 x 17L	-		15	**52.537.01**	
52.532.04	14 x 19	**52.533.05**	14 1/8 x 19	15	**52.537.01**	
52.532.05	14 x 19L	**52.533.06**	14 1/8 x 19L	15	**52.537.01**	
52.532.06	14 x 21	**52.533.07**	14 x 21	15	**52.537.01**	
52.532.07	14 x 21L	**52.533.08**	14 x 21L	15	**52.537.01**	
52.522.02	13 1/2 x 15	-		13	**52.537.08**	2 Strokes: Tenerife 70hp; Best 800; Portofino 70/80hp; Montecarlo 90/ 100hp
52.522.22	13 1/2 x15L	-		13	**52.537.08**	
52.522.04	13 1/4 x 17	-		13	**52.537.08**	
52.522.24	13 1/4 x 17L	-		13	**52.537.08**	
52.522.06	13 x 19	-		13	**52.537.08**	
52.522.26	13 x 19L	-		13	**52.537.08**	

* *On 115 (4S) use mounting kit 52.537.01*

For HONDA engines

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.520.01	11 5/8 x 11	-		13	-	BF40, BF50, BF60
52.520.02	11 3/8 x 12	-		13	-	
52.520.04	11 1/8 x 13	-		13	-	
52.520.06	11 1/8 x 14	-		13	-	
52.522.02	13 1/2 x 15	-		15	**52.537.02**	75, 90, 80, 100, 115 (up to 2009) and 130
52.522.22	13 1/2 x 15L	-		15	**52.537.02**	
52.522.04	13 1/4 x 17	-		15	**52.537.02**	
52.522.24	13 1/4 x 17L	-		15	**52.537.02**	

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.522.06	13 x 19	-		15	**52.537.02**	75, 90, 80, 100, 115 (up to 2009) and 130
52.522.26	13 x 19L	-		15	**52.537.02**	
52.532.02	14 1/4 x 17	-		15	**52.537.02**	115 (since 2010), 135, 150, 175, 200, 225 and 250
52.532.03	14 1/4 x 17L	-		15	**52.537.02**	
52.532.04	14 x 19	**52.533.05**	14 1/8 x 19	15	**52.537.02**	
52.532.05	14 x 19L	**52.533.06**	14 1/8 x 19L	15	**52.537.02**	
52.532.06	14 x 21	**52.533.07**	14 x 21	15	**52.537.02**	
52.532.07	14 x 21L	**52.533.08**	14 x 21L	15	**52.537.02**	

For JOHNSON - EVINRUDE engines

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.520.01	11 5/8 x 11	-		13	-	40 and 50 (4S)
52.520.02	11 3/8 x 12	-		13	-	
52.520.04	11 1/8 x 13	-		13	-	
52.520.06	11 1/8 x 14	-		13	-	
52.522.02	13 1/2 x 15	-		13	**52.537.08**	40, 50, 60, 75, 90 and 115 (Evinr. E-TEC); 70, 75, 90, 100, 115, 120 and 140 Evinr. & Johnson 2S
52.522.22	13 1/2 x 15L	-		13	**52.537.08**	
52.522.04	13 1/4 x 17	-		13	**52.537.08**	
52.522.24	13 1/4 x 17L	-		13	**52.537.08**	
52.522.06	13 x 19	-		13	**52.537.08**	
52.522.26	13 x 19L	-		13	**52.537.08**	
52.523.01	13 7/8 x 17	-		15	-	90, 115, 140 (4S)

3 blades		4 blades		No. of broaches (teeth)	Mounting kit	Engine
Code	Ø and pitch	Code	Ø and pitch			
52.523.11	13 7/8 x 17L	-		15	-	90, 115, 140 (4S)
52.523.02	13 7/8 x 19	-		15	-	
52.523.12	13 7/8 x 19L	-		15	-	
52.523.03	13 7/8 x 21	-		15	-	
52.523.13	13 7/8 x 21L	-		15	-	
52.532.02	14 1/4 x 17	-		15	**52.537.04**	130, 150, 175, 200, 225, 250, 275 and 300 (Evinrude-Johnson 2S and Evinrude E-TEC) Cobra 800 and King Cobra (up to 1994, with 15-tooth fitting)
52.532.03	14 1/4 x 17L	-		15	**52.537.04**	
52.532.04	14 x 19	**52.533.05**	14 1/8 x 19	15	**52.537.04**	
52.532.05	14 x 19L	**52.533.06**	14 1/8 x 19L	15	**52.537.04**	
52.532.06	14 x 21	**52.533.07**	14 x 21	15	**52.537.04**	
52.532.07	14 x 21L	**52.533.08**	14 x 21L	15	**52.537.04**	

Adaptor kit for SOLAS New Saturn 3-blade propellers.

Code	Type
52.536.01	UHD-KT
52.536.02	UHE-KT

Code	Type
52.536.03	UMC-KT
52.536.04	UMD-KT

Code	Type
52.536.05	UME-KT
52.536.06	UTC-KT

Rubex shock absorber

For New Saturn and HR TITAN Rubex propellers

Code	Description
52.537.00	Shock absorber RBX-208 for engines Yamaha 70/100hp
52.537.01	Shock absorber RBX-203 for engines Yamaha 115/300hp 2S and 4S and Selva 4S
52.537.02	Shock absorber RBX-107 for engines Honda 75hp to 225hp
52.537.03	Shock absorber RBX-102 for engines Mercury 75hp to 300hp and Mercruiser
52.537.11	Shock absorber RBX-123 for engines Mercury Verado/Pro XS Axis 1.25'
52.537.04	Shock absorber RBX-100 for engines Johnson/Evinrude 150/300hp
52.537.05	Shock absorber RBX-104 for engines Suzuki DT 150/225hp DF 150/300hp
52.537.06	Shock absorber RBX-105 for engines Volvo Penta LEFT
52.537.07	Shock absorber RBX-110 for engines Suzuki 70/140hp (2S) 60/70 hp (4S)
52.537.08	Shock absorber RBX-106 for engines Johnson/Evinrude 70/140hp (2S) + 40E-TEC + 115E-TEC
52.537.09	Shock absorber RBX-109 for engines Johatsu 70/140hp (2S)
52.537.10	Shock absorber RBX-127 for engines Yamaha 300/350 (4S)

NEW SATURN propellers in stainless steel - RUBEX 3-blade propellers with RUBEX interchangeable shock absorber

Shock absorber to be bought separately.

Code	Rotation	Ø and pitch	Engines Yamaha + Selva 4S		Engines Honda		Engines Tohatsu		Engines Mercury - Mariner		Engines Suzuki / Envirude - Johnson (4S)		Engines Johnson - Envirude (2S) / E-TEC / Selva (2S)		Engines Volvo Penta OMC Cobra since 1994	
			HP	Shock absorber	HP	Shock absorbers	HP	Shock absorbers	HP	Shock absorber	HP	Shock absorber	HP	Shock absorber	HP	Shock absorber
52.522.02	RIGHT	13 1/2 x 15	70-140 (2S) and 70-115 (4S)	**52.537.00**	75/90/130 and 115 (up to 2010)	**52.537.02**	70 to 140 (2S) since 2003 + kit TD-RBKT	**52.537.09**	75 to 125 (2S + 4S)	**52.537.03**	70 to 140 (Suzuki 2S) and 60/70 (Suzuki 4S) and 60/70 (Envirude - Johnson 4S)	**52.537.07**	40 to 90 + 115 (Envirude E-TEC) and 70 to 140 (Envirude - Johnson / Selva 2S)	**52.537.08**		
52.522.22	LEFT	13 1/2 x 15														
52.522.04	RIGHT	13 1/4 x 17														
52.522.24	LEFT	13 1/4 x 17														
52.522.06	RIGHT	13 x 19														
52.522.26	LEFT	13 x 19														
52.532.02	RIGHT	14 1/4 x 17	150-250 (2-4 S) and 300 (2S) + stern drive	**52.537.01**	115 (2011) and 135 to 225	**52.537.02**			135 to 300 (2/4S) + Mercruiser, Alpha one, Bravo one	**52.537.03**	150 to 225 (Suzuki 2/4S) and 150 to 225 (Envirude - Johnson 4S)	**52.537.05**	130 to 300 (Johnson 2S and Envirude 2S + E-TEC) and OMC Cobra 800 and King Cobra up to 1994 (shaft 15 spline)	**52.537.04**	Volvo Penta SX, OMC King Cobra since 1994	**52.537.06**
52.532.03	LEFT	14 1/4 x 17														
52.532.04	RIGHT	14 x 19														
52.532.05	LEFT	14 x 19														
52.532.06	RIGHT	14 x 21														
52.532.07	LEFT	14 x 21														
52.532.50	RIGHT	16 x 19	300-350 (4S)	**52.537.10**							200 to 300 (Suzuki 2/4S) and 200/225 (Envirude - Johnson 4S)	**52.537.05**				
52.532.51	LEFT	16 x 19														
52.532.52	RIGHT	15 3/4 x 21														
52.532.53	LEFT	15 3/4 x 21														
52.532.54	RIGHT	15 5/8 x 23														
52.532.55	LEFT	15 5/8 x 23														

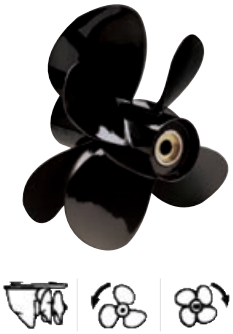
► SOLAS propellers for VOLVO PENTA, in compliance with genuine products

SOLAS

Aluminium propellers for DP 280/290 type A

For diesel 3-blade front propeller, 4-blade external propeller.

Code	For leg type	OEM ref.
52.202.03	A3	854766
52.202.04	A4	854767
52.202.05	A5	854768
52.202.06	A6	854769
52.202.07	A7	854770



Aluminium propellers for DP 280/290 type B

For petrol and diesel engines, with thin profile blades. 3-blade front propeller, 3- or 4-blade esternal propeller (as supplied by the manufacturer).

Code	For leg type	OEM ref.
52.203.03	B3	854816
52.203.04	B4	854817
52.203.05	B5	854818
52.203.06	B6	854819

3-blade stainless steel propellers for DP 280/290 type C

Propellers for maximum performance: better thrust, higher speed, better impact- and corrosion-resistance.

Code	For leg type	OEM ref.
52.204.03	C3	3860878
52.204.04	C4	3857495
52.204.05	C5	3857496
52.204.06	C6	3857497

► Propeller pullers and keys

Propeller puller - shaft lines

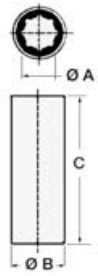
Suitable for 2 to 5 blade propellers. Made of high-resistance steel.

Code	Description
52.962.01	For shaft lines mm 25 to mm 38 (1" - 1"1/2)
52.962.02	For shaft lines mm 40 to mm 52 (1" 5/8- 2")

Special universal keys

52.960.00 Designed to screw/unscrew propeller's studs, length of 330 mm; made of **nylon/ fiberglass**.

► Bushings, packings and supports

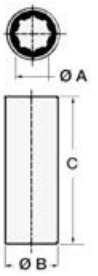


Shaft line bushings with brass external frame. External/internal version in millimetres

Made of hydro-lubricating **rubber**.

Code	Ø A mm	Ø B mm	C mm
52.307.20	20	31,75 (1”1/4)	76.2
52.307.22	22	31,75 (1”1/4)	76.2
52.307.25	25	38,1 (1”1/2)	101.6
52.307.26	25	31,75(1”1/4)	101.6
52.307.28	28	41,27 (1”5/8)	114.3
52.307.30	30	44,4 (1”3/4)	127
52.307.32	32	44,45 (1”3/4)	127
52.307.35	35	47,6 (1”7/8)	139.7
52.307.38	38	50,80 (2”)	152
52.307.40	40	53,9 (2”1/8)	160

Code	Ø A mm	Ø B mm	C mm
52.307.45	45	60,3 (2”3/8)	177.8
52.307.50	50	66,6 (2”5/8)	203.2
52.307.55	55	76,20 (3”)	228.6
52.307.60	60	82,5 (3”1/4)	241.3
52.307.65	65	85,72 (3”3/8)	266.7
52.307.70	70	95,25 (3”3/4)	279.4
52.307.75	75	101,60 (4”)	304.8
52.307.80	80	101,60 (4”)	304.8
52.307.85	85	114,30 (4" 1/2)	342.9
52.307.90	90	114,30 (4" 1/2)	355.6

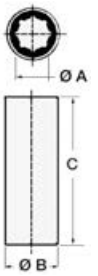


Shaft line bushings with brass external frame. External/internal version in millimetres

Made of hydro-lubricating **rubber**.

Code	Ø A mm	Ø B mm	Ø C mm
52.308.20	20	30	80
52.308.25	25	35	100
52.308.26	25	40	100
52.308.28	28	38	112
52.308.30	30	40	120
52.308.31	30	45	120
52.308.32	32	45	128
52.308.35	35	48	140
52.308.36	35	50	140
52.308.40	40	55	160
52.308.41	40	56	160
52.308.45	45	61	180

Code	Ø A mm	Ø B mm	Ø C mm
52.308.46	45	65	180
52.308.50	50	66	200
52.308.51	50	70	200
52.308.55	55	73	220
52.308.56	55	75	220
52.308.60	60	78	240
52.308.61	60	80	240
52.308.65	65	83	260
52.308.66	65	85	260
52.308.70	70	90	280
52.308.80	80	100	320
52.308.81	80	102	320

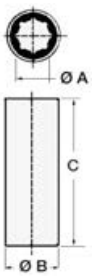


Shaft line bushings with brass external frame. External/internal version in millimetres

Made of hydro-lubricating **rubber**, suitable for US, UK and Australian boats.

Code	Ø A mm	Ø B mm	C mm
52.306.00	1” (25.40)	1”1/4 (31.75)	101.6
52.306.01	1” (25.40)	1”1/2 (38.10)	101.6
52.306.02	1”1/4 (31.75)	1”3/4 (44.45)	127
52.306.03	1”1/2 (38.10)	2” (50.80)	152.4
52.306.04	1”3/4 (44.45)	2”3/8 (60.32)	177.8
52.306.05	2” (50.80)	2”5/8 (66.67)	203.2
52.306.21	1”1/8 (28.57)	1”5/8 (41.27)	114.7
52.306.22	1”3/8 (34.92)	1”7/8 (47.62)	139.7

Code	Ø A mm	Ø B mm	C mm
52.306.23	1”5/8 (41.27)	2”1/8 (53.97)	165.1
52.306.24	1”7/8 (47.62)	2”5/8 (66.67)	190.5
52.306.06	2" 1/4 (57.15)	3" (76.20)	228.6
52.306.08	2" 1/2 (63.50)	3" 1/4 (82.55)	254
52.306.09	2" 5/8 (66.67)	3" 3/8 (85.72)	266.7
52.306.10	2" 3/4 (69.85)	3" 3/4 (95.25)	279.4
52.306.12	3" (76.20)	4" (101.60)	304.8

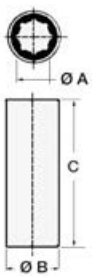


Shaft line bushings with resin external frame. External/internal version in millimetres

Made of **rubber**, hydro-lubricating, fitted with **resin** external plate, ideal for aluminium hulls with aluminium shaft supports.

Code	Ø A mm	Ø B mm	C mm
52.208.25	25	38.10 (1" 1/2)	100
52.208.30	30	44.45 (1" 3/4)	120
52.208.35	35	47.62 (1" 7/8)	137
52.208.40	40	53.97 (2" 1/8)	160

Code	Ø A mm	Ø B mm	C mm
52.208.45	45	60.32 (2" 3/8)	180
52.208.50	50	66.67 (2" 5/8)	200
52.208.60	60	82.55 (3" 1/4)	240



Shaft line bushings with resin outer frame. Millimeters marked on the indise/outside.

Made of hydro-lubricating **rubber**.

Code	Ø A mm	Ø B mm	C mm
52.209.25	25	35	100
52.209.26	25	40	100
52.209.30	30	40	120
52.209.31	30	45	120
52.209.35	35	48	160
52.209.36	35	50	160

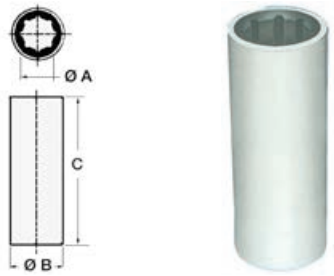
Code	Ø A mm	Ø B mm	C mm
52.209.40	40	55	160
52.209.41	40	56	160
52.209.45	45	61	180
52.209.46	45	65	180
52.209.55	50	66	200
52.209.56	50	70	200

Shaft line bushings with resin outer frame. Inches marked on the indise/outside.

Made of hydro-lubricating **rubber**.

Code	Ø A mm	Ø B mm	C mm
52.210.25	1" (25.4)	1" 1/2 (38.1)	100
52.210.50	2" (50.8)	2" 5/8 (66.67)	200

Code	Ø A mm	Ø B mm	C mm
52.210.57	2" 1/4 (57.16)	3" (76.2)	220
52.210.63	2" 1/2 (63.5)	3" 1/4 (82.55)	250



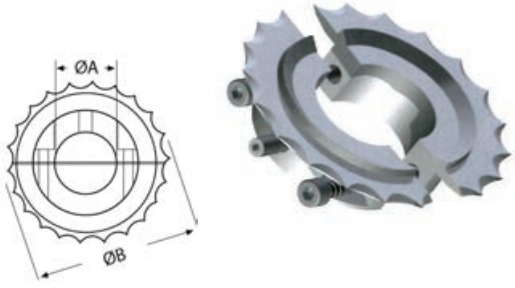
Shaft line bushings made of rubber. External/internal version in millimetres

Code	Ø A mm	Ø B mm	C mm
52.207.22	22	29	75
52.207.23	22	36	80
52.207.25	25	36	100
52.207.26	25	40	120
52.207.30	30	40	120
52.207.35	35	54	140
52.207.40	40	54	140

Stainless steel line clamp cutter

The clamp system enables to install the cutter without disassembling the propeller

Code	Axis Ø mm - A	Outer Ø mm - B	Thickness mm
52.961.01	25	80	22
52.961.03	30	80	22
52.961.04	31.75 (1" 1/4)	80	22
52.961.05	35	100	22
52.961.07	40	100	22
52.961.08	44.5 (1" 3/4)	120	22
52.961.09	45	120	22
52.961.10	50	120	22



Gland packing

Made with long fibers in **mixed cotton hemp and teflon** with square sections to provide water-tightness on the propeller's box shaft; for correct operation make sure that the packing is mounted in short slugs that form **just one ring** each.

Code	Ø mm	For bearing Ø mm	Packing
52.190.06	6	18/25	2 m
52.190.08	8	25/35	2 m
52.190.10	10	40/60	2 m

Rubber stuffing box

Long lasting insulation from water seepage, low maintenance required if correctly treated.
Made of a special type of rubber resistant to salt water and lubricating grease.

The product is supplied with an AISI316 stainless steel clamp and specific lubricant for shaft line.
Operation of the stuffing box is usually under the waterline; lubrication and cooling by water. In case of operation above or on the waterline, an external water cooling source is needed.

Version A: brass hose adaptor for external lubrication by water (if not used, a brass closing cap is supplied) + greasing aperture with brass cap.
Version B: no hose adaptor and greasing aperture.

The kit includes: stuffing box + specific lubricant tube + instructions.

◢ 52.330.xx

◢ 52.331.xx

Version		Centerline Ø mm	Stuffing box case Ø mm
A	B		
52.330.25	**52.331.25**	25	43
52.330.30	**52.331.30**	30	49
52.330.35	**52.331.35**	35	55
52.330.40	**52.331.40**	40	60
52.330.45	**52.331.45**	45	65
52.330.50	**52.331.50**	50	70

► Portable showers

20 litre solar shower

52.020.20 Made with special **PVC** that absorbs solar rays and heats the water that is stored inside; supplied with dispenser.

Portable pressure “Handy Shower”

52.187.00 Fitted with **ABS** container that can hold up to 8 litres of water, push button shower and 1,7 meter hose, pressure piston; by activating the piston 25 times with pressure up to three bar, the water comes out of the shower; Handy Shower is well built and very functional.

► Water tanks

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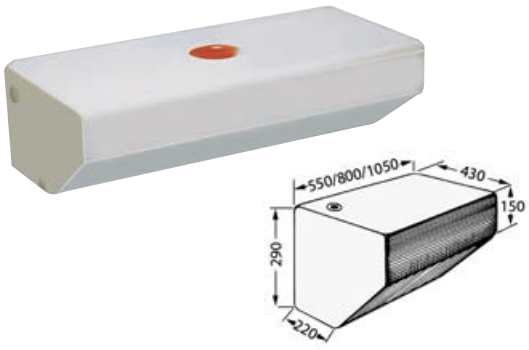
Fresh water rigid tank, rectangular version

Made of **white polyethylene**, standard version with rectangular sections. Suitable for intallation on the central part of the hull or beneath the bow floor. Includes inspection cover and 4 blind thread holes size 1/2” - 1”1/4, wherein the inlet/outlet hose adaptor are screwed on, vent (see various models available on group 17), to be ordered separately.

Code	Capacity l	Base mm	Height mm	Standard thickness mm +/- 5%**
52.194.49	54	700x400	200	4
52.194.50	47	480x400	260	4
52.194.51	70	710x400	260	4
52.194.69	105	900x400	300	4.5
52.194.70	80	700x400	300	4.5
52.194.71	130	880x500	300	4.5
52.194.72*	170	880x500 - 880x400	400-500	5

* *It can be rotated at 90° and used with height of 400 mm or 500 mm (fitted with **double series of outlets and inspection cap**).*

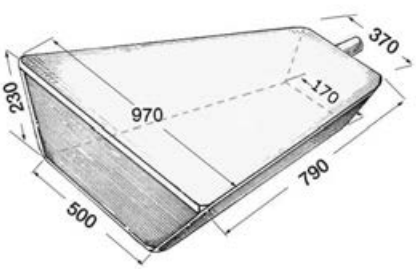
** *Our fresh water tank thickness is calculated for standard use of tanks to be installed on leisure boats. The installer or the designer shall be responsible for checking that both the tanks and their mounting systems comply with the required use. Technical support shall be requested, if necessary. The option to require on demand tanks increased in thickness.*



Fresh water rigid tank, tapered version

Made of linear **polyethylene**; flared edges for permanent adhesion on the broadside; tasteless, odourless, supplied with inspection cover for maintenance and blind threaded holes, drain and vent size 1/2" and size 1"1/4 for loading. (For hose adaptor see models on group 17 or 52);

Code	Capacity l	Plant mm	Height mm
52.195.50	46	430x550	290
52.195.75	70	430x800	290
52.195.10	100	430x1050	290



Rigid water tank

Made of **white polyethylene**, triangular **flared** shape designed for the bow, includes 4 blind thread holes size 1/2” - 1”1/4, wherein the inlet/outlet hose adaptor and vent are screwed (see various models available in group 17).

Code	Flow l	Standard thickness mm +/- 5%*
52.194.00	80	5

*

White polypropylene tank, suitable for fresh water, holds 60 litres; designed for wall mounting

Suitable for mounting behind cabinets or interspaces; includes female threading size 1/2" - 3/4" - 1" 1/2 for inflow, outflow, back vent; level indicator flange.

Code	Capacity l	⟷ mm	Max length for float cm	Standard thickness mm +/- 5%*
52.145.78	60	450 x 350 depth x 670 total height	60	5

* *Our fresh water tank thickness is calculated for standard use of tanks to be installed on leisure boats. The installer or the designer shall be responsible for checking that both the tanks and their mounting systems comply with the required use. Technical support shall be requested, if necessary. The option to require on demand tanks increased in thickness.*

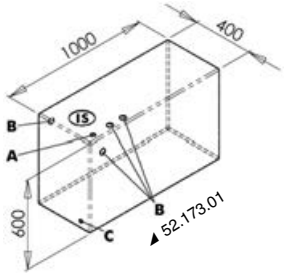
Large rigid tank for drinkable water

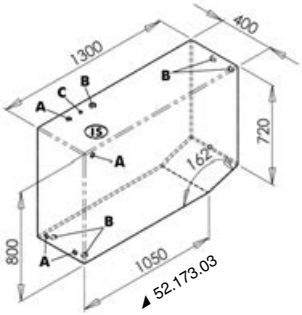
Made of linear polyethylne for food use. Tasteless and odourless. Fitted with inspection plug and prearranged for loading, unloading and vent. Possibility of modular installation of several tanks by prearranging a connection nipple.
Female connections in the moulded plastic tank.

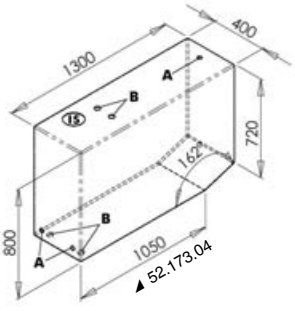
Code	Capacity l	Length x width mm	Height mm	Standard thickness mm +/- 5%*
52.173.01	215	1000x400	600	5
52.173.03	390	1300x400	800	5
52.173.04	390	1300x400	800	5
52.173.08	350	1620x520	510	7
52.173.09	600	2430x520	510	7
52.195.20	165	900x600	400	6
52.195.22	240	870x785	405	6

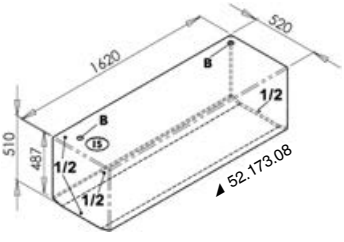
Symbols: A=1" - B=1"1/4 - C=1"1/2 - D=3/4 - IS=Inspection

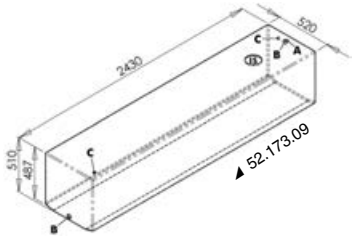
* *Our fresh water tank thickness is calculated for standard use of tanks to be installed on leisure boats. The installer or the designer shall be responsible for checking that both the tanks and their mounting systems comply with the required use. Technical support shall be requested, if necessary. The option to require on demand tanks increased in thickness.*

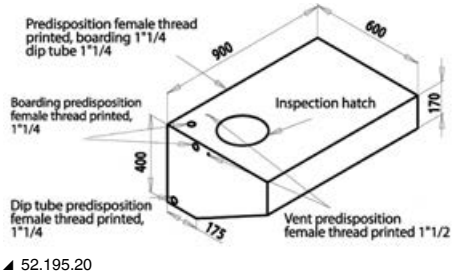




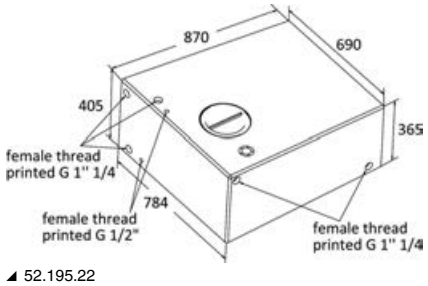








52.195.20



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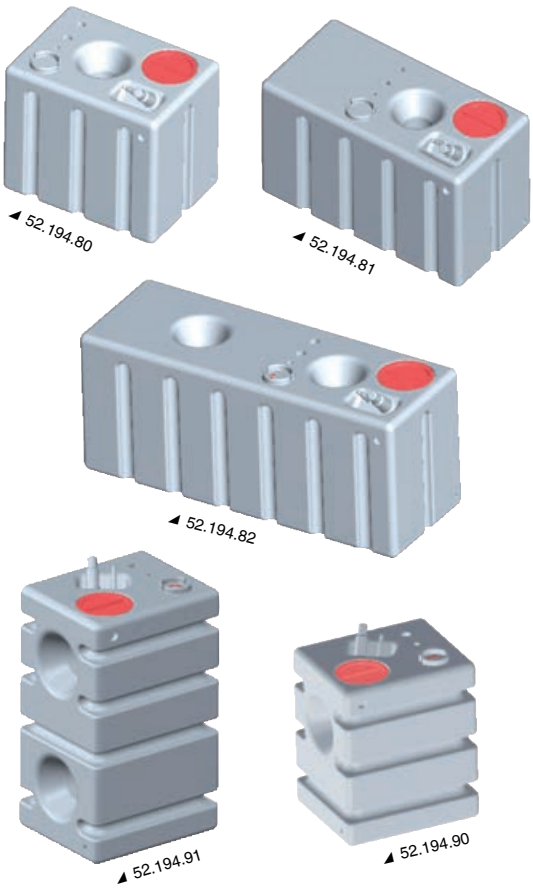
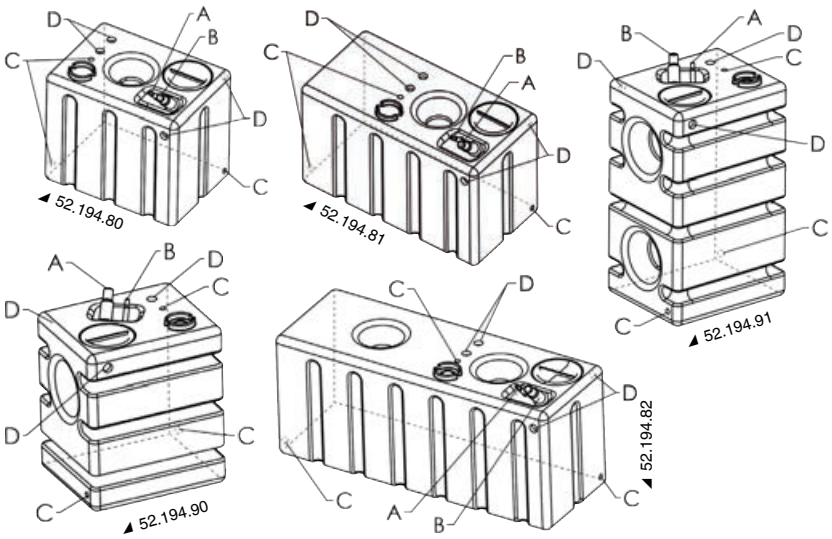


Rigid modular tank for drinkable water

Made of linear food-quality polyethylene. Fitted with inspection plug and multiple ports for filling, draining, venting with 1" 1/4, 3/4", 1" female threads. Ready to fit a level indicator with 5-bore VDO flange (27.160.xx; 27.161.xx; 27.166.xx).

Code	Capacity l	Base mm	Height mm	A - Vent Ø mm	B - Filler cap Ø mm	C	D	Standard thickness mm +/- 5%*
52.194.80	172	700x500	600+25	16/20	38/50	3/4"	1"1/4	5.5
52.194.81	247	1000x500	600+25	16/20	38/50	3/4"	1"1/4	7
52.194.82	343	1400x500	600+25	16/20	38/50	3/4"	1"1/4	7
52.194.90	170	500x600	700+25	16/20	38/50	3/4"	1"1/4	6
52.194.91	236	500x600	1000+25	16/20	38/50	3/4"	1"1/4	7

* *Our fresh water tank thickness is calculated for standard use of tanks to be installed on leisure boats. The installer or the designer shall be responsible for checking that both the tanks and their mounting systems comply with the required use. Technical support shall be requested, if necessary. The option to require on demand tanks increased in thickness.*



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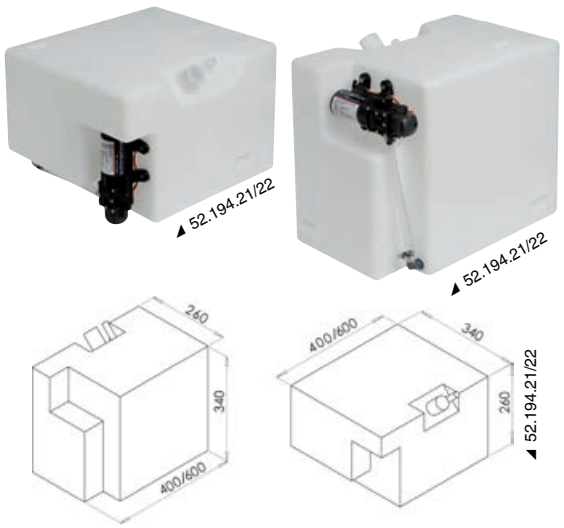

Tank with fresh water pump

Polyethylene tank already assembled with fresh water pump type 16.503.12.
Recommended for one outlet.
When rotated at 90°, it height varies from 34 to 26 cm according to your needs.

Code	Flow	Capacity l	Autoclave oulet Ø mm	Inlet joint Ø mm	Vent Ø mm	Bracket	Standard thickness mm +/- 5%*	⟷ outside mm
52.194.21	3.8 l/min at 12 V	32	10	38	16	**52.195.00**	4	400x260 x340
52.194.22 New	3.8 l/min at 12 V	49	10	38	16	**52.195.00**	4	600x260 x340

Can be installed with base 340x400 (height 260 mm) or base 400x260 (height 340 mm). Made-ready for bracket mounting 52.195.00.

* *Our fresh water tank thickness is calculated for standard use of tanks to be installed on leisure boats. The installer or the designer shall be responsible for checking that both the tanks and their mounting systems comply with the required use. Technical support shall be requested, if necessary. The option to require on demand tanks increased in thickness.*

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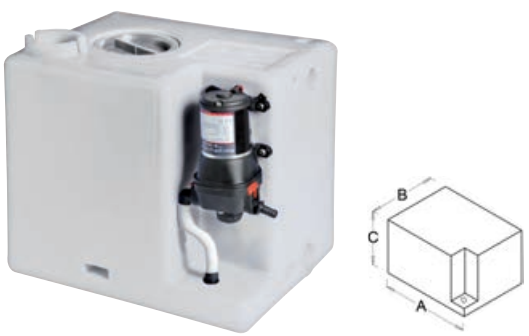


Tank + fresh water pump kit

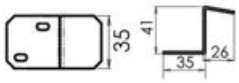
Assembled polyethylene tank with fresh water pump 16.512.12 (12V). Flow 12.8 lt/min. Recommended for 1/3 taps.

Code	⟷ mm			Net volume l	Inlet joint	Vent	Fastening bracket	Max length for floar cm	Spessore thickness mm +/- 5%*
	A	B	C						
52.194.30	450	350	400	56	1 1/2"	3/4"	**52.195.00**	39	5
52.194.32	650	330	400	77	1 1/2"	3/4"	**52.195.00**	39	4
52.194.34	650	490	400	117	1 1/2"	3/4"	**52.195.00**	39	5

* *Our fresh water tank thickness is calculated for standard use of tanks to be installed on leisure boats. The installer or the designer shall be responsible for checking that both the tanks and their mounting systems comply with the required use. Technical support shall be requested, if necessary. The option to require on demand tanks increased in thickness.*

Tank fixing plate

Stainless steel plate for tanks preset for mouting. Preset with 2 slotted holes for screws.



Code	Compatible with tanks
52.195.00	50.147.xx; 50.148.xx; 50.149.xx; 52.194.xx; 52.194.21

Flexible water tank

OSCULATI

Very convenient, its shape adapts to the location where you position it.
No maintenance required, low cost.
Fitted with water inlet and outlet and a vent valve for water bubbles.
Model made with very sturdy **mixed nylon/PVC fabric**, and double **anti-blast** welds.

Code	Litres	⟷ cm
52.196.01	55	69x72
52.196.02	100	69x110
52.196.03	150	69x136
52.196.04	210	69x177
52.196.05	55	107x94 (triangular)
52.196.06	100	131x102 (triangular)

Fitting included 1x16 mm/1x38 mm

Outlet for flexible water tanks

Made of **nylon**, as spare parts for water tank models 52.196.01; 52.196.03; 52.196.05; 52.196.06.

Code	Version
52.196.90	Outlet, hose adaptor Ø 16 mm
52.196.92	Load, hose adaptor Ø 37 mm

Terminal joint

Includes cover, to be connected with a **PV** pipe onto outlet models 52.196.92; 52.196.93 if a water connection is required with a flying pipe without deck mounting.

Code	Hose adaptor Ø mm
52.196.94	37

Hose adaptor

Made of **white nylon** for rigid water tanks.

Code	Version
52.197.15	3/4”x15 mm straight
52.198.16	3/4”x16 mm 90° curve
52.198.25	3/4”x25 mm 90° curve
52.195.15	1/2”x15 mm straight
52.196.15	1/2”x15 mm 90° curve

Code	Version
52.195.38	1”1/4x38 mm straight
52.196.38	1”1/4x38 mm 90° curve
52.197.38	1”1/2x38 mm straight
52.198.38	1”1/2x38 mm 90° curve

90° outlet for flexible water tank

Made of **nylon** with 90° pipe, ideal for flessible water tanks 52.196.xx.

Code	Version
52.196.91	Oulet or vent, hose adaptor Ø 15 mm
52.196.93	Load, hose adaptor Ø 37 mm

► Water tank accessories and detergents

Water level panel + probe kit

4 LED (1/4 - 1/2 - 3/4) indicator panel + probe with 5-bore international flange. Also equipped with thread and nut for universal fastening in all tanks made of whatever material. Arranged for 15/50-cm high tanks. The probe sensors are to be cut accordingly to the height of the tanks used.

Code	⟷ panel mm	Prewired cable length m	V
52.648.00	75x62	4	12/24

50.204.61 *4-m extension cable fitted with male/female conncetors.*

YACHTICON Aqua Clean for fresh water tanks

For processing and storage of fresh water in tanks. It prevents contamination for up to 6 months. Silver-based and **free from chlorine** and other chemicals, this tasteless and odourless product can be used in both **drinkable and non-drinkable water** contained in flexible or rigid tanks (in case of aluminium tanks, use liquid version 52.193.00).

Code	Description	Package	For litres
52.193.00	Small ready-to-use bottles	100 ml	1.000
52.193.01	Powder package (dispenser included)	100 g	10.000
52.193.02	Tabs	100 pcs	500

*With the purchase of 16 pcs, you'll receive a **complimentary** display stand*

"Clean a Tank" YACHTICON

Cleaner based with citric acid, suitable for removing lime residues on tanks or pipes; non-toxic product, recommended use when the tanks are not used after a certain period; after the use of this product we recommend using Pura Tank to disinfect the entire system.

Code	Package
52.191.50	500 ml

"Pura Tank" YACHTICON

Product contains **no chlorine**, suitable for washing and disinfecting water tanks. Removes residues and odours due to the formation of algae and bacteria.

Code	Package
52.191.00	500 ml

"Aqua Source Clear" WHALE

Purifying, filter for fresh water, genuine "Whale" product; treats up to 4,500 litres of water, purifies from odour, bacteria, fungus, etc.

Code	Hose adaptor mm
52.124.00	12

► Dehumidifier

52.153.03

52.153.04

52.153.05

New **ABSODRY® moisture absorber**

This dehydrating crystal moisture absorber draw moisture from the air to prevent mould and bad odours.
As the optimum level of humidity is reached, the process automatically stops resuming operation when humidity starts increasing again.
Made up of two-part moisture absorber. Dehydrating crystals are placed in the upper part and moisture is condensed in the bottom part.
When the easy-to-empty absorber is full and the crystal are consumed, start over with a new refill.
ABSODRY® Hanger is the disposable version for confined places where ventilation is limited. Used in wardrobe is ideal to keep clothes and pulls fresh and dry.

Code	Description	For	⟷ mm
52.153.03	ABSODRY® Classic + 450gr refill pack	10 - 12 m^3 1 to 3 months	180x110x210
52.153.04	ABSODRY® 3 x 450 gr refill packs	10 - 12 m 1 to 3 months every refill	145x145x145
52.153.05	ABSODRY® Hanger	450 gr 10 - 12 m^3	60x205x335

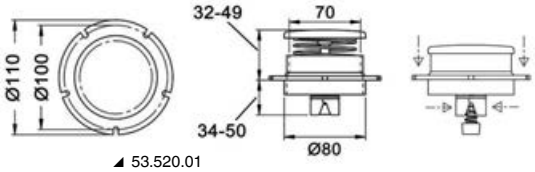
Duration is just an indication and depends on the air humidity level

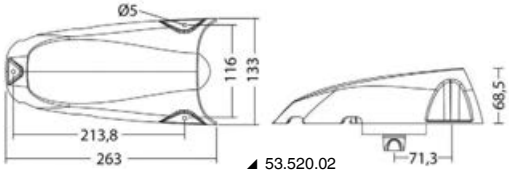
► Wind Shell modular Venting System

Wind Shell Venting system

UV-resistant ABS body. Push the central button to open and close. Perfectly watertight when closed. Can be installed with shell cover to maximise airflow/protection

Code	Description	Notes
53.520.01	Open / Close valve	It can be installed without grid.
53.520.02	Cover	-
53.520.03	Coupling + ring	For thickness up to 120 mm



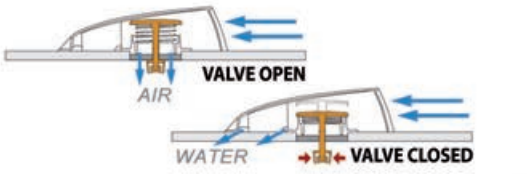


Carena (53.520.02)
Cover

Valvola apertura / chiusura (53.520.01)
Open / Close valve

Manicotto est. Ø86 - int. Ø81,2 (53.520.03)
Coupling ext. Ø86 - int. Ø81,2

Collarino per manicotto
Ring for coupling



Può essere usato per far entrare o estrarre l'aria.
Can be used for air intake or outake

► Mushroom vents, hatch vents and louvred vents

Cowl vents

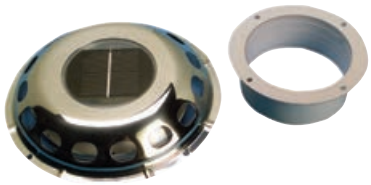
Made of white flexible **PVC**, swivelling, fitted with locking cap.

Code	Profile type	⟷ neck mm	Height mm	Width mm	Base Ø mm
53.135.93	depressed	70	90	160	112
53.135.94	depressed	100	150	185	142
53.135.95	traditional	70	230	110	112
53.135.96	traditional	100	250	140	142

DELUXE stainless steel cowl vent

AISI 316 Made of mirror polished AISI 316 stainless steel, fitted with screw locking cap.

Code	Deck hole mm	Height mm
53.134.09	102	136



Ventilator

Made of **stainless steel**, lets air pass through without letting water in, fitted with underlying electric starter for cabin ventilation, powered with solar cell built-in onto the ventilator.

Code	Ø mm	Size mm	Housing hole mm
53.503.00	200	30	103

Watertight vents - ventilite/ventair

Made of **stainless steel**. It lets air in while being completely watertight.

Code	Model	Outer Ø mm	Height mm	Housing hole mm
53.500.10	**with** light passage	230	35	97

LEWMAR

LEWMAR ventilator

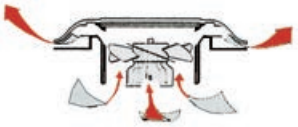
Made of reinforced plastic, it exchanges air and prevents water seepage. It can be mounted onto the hatch glass or on the deck. Universal model complying with the CE ISO 12216:2003 standards.

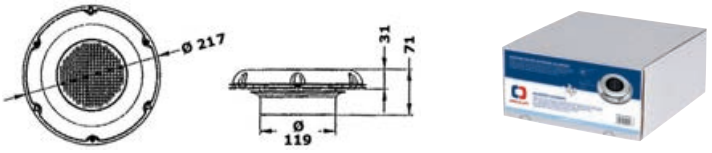
Code	Outer Ø mm	Recess bore mm
19.041.01	170	76

Solarvent automatic solar vent

The latest venting system using solar power. Fitted with **mirror polished stainless steel** vent diffuser. ON-OFF switch. Equipped with NiMH rechargeable batteries which store energy during the day, **ensuring 30 hours of operation without solar light**. Equipped with 2 RIGHT/LEFT fans to let **air in or out**.

Code	Cap Ø mm	Practice hole mm	External/internal overhang mm	Air circulation m^3/hour
53.636.00	217	119	71 total	20





Shell Vent

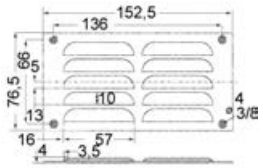
Made of **chromed brass**, innovative and elegant design.

Code	⟷ mm	Type
53.310.01	165x120x34	American
53.313.00	175x115x40	-

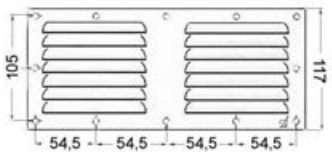
Rectangular Louvred Vents

Made of **polished stainless steel**.

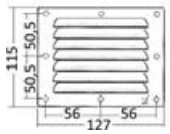
Code	Height mm	Width mm	Fly screen
53.021.01	115	127	no
53.021.02	67	127	no
53.021.03	118	232	no
53.021.04	232	127	no
53.021.05	76	152	no
53.021.06	76	229	no
53.021.00	116	340	no
53.021.07	115	127	yes
53.021.08	67	127	yes
53.021.09	118	232	yes
53.021.10	232	127	yes
53.021.11	76	152	yes
53.021.12	76	229	yes
53.021.13	116	340	yes



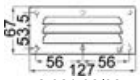
◢ 53.021.05/11



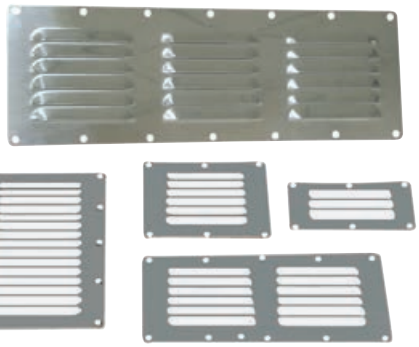
◢ 53.021.03/09

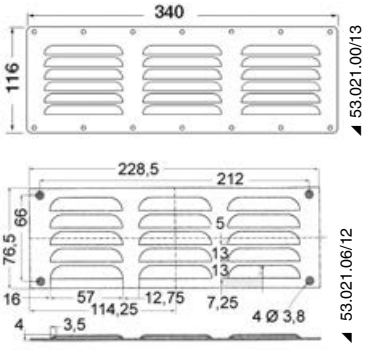


◢ 53.021.01



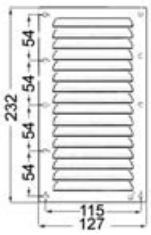
◢ 53.021.02/08





◢ 53.021.00/13

◢ 53.021.06/12



◢ 53.021.04/10

Oval Louvred Vents

Made of polished stainless steel.

Code	⟷ mm
53.022.01	116x128

Oval air inlets

Made of mirror polished **stainless steel**.

Code	⟷ mm
53.216.92	170 x 60

Circular air inlet

Made of mirror polished **stainless steel**.

Code	Ø mm
53.216.90	83

Dual louver

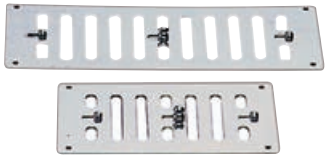
Made of polished stainless steel.

Code	⟷ mm
53.022.02	235x118

Air vent, shutter type, fitted with sash locking system

Made of **polished stainless steel**.

Code	⟷ mm	fly screen
53.468.00	152x76	no
53.468.01	152x76	yes
53.468.02	229x76	no
53.468.03	229x76	yes



Circular Louvred Vents

Made of **polished stainless steel**.

Ø mm	With fly screen	Without fly screen	Splash-proof protection
102	**53.301.67**	**53.301.71**	**53.301.85**
125	**53.301.68**	**53.301.72**	**53.301.86**
152	**53.301.69**	**53.301.73**	**53.301.87**
178	**53.301.64**	**53.301.63**	-
63	**53.301.66**	**53.301.70**	-

◢ 53.301.85/86/87

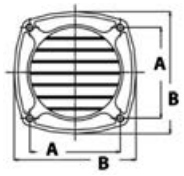
Stainless steel louvred vents

Mirror-polished printed stainless steel plate

Code	⟷ mm
53.302.01	100x100
53.302.02	125x125

◢ 53.302.02

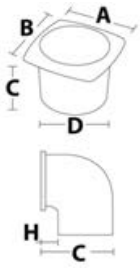
◢ 53.302.01



Stainless steel air vent

AISI316 mirror-polished precision-cast stainless steel.

Code	⟷ B mm	Version	Centre distance (A) mm	Bore Ø mm
53.301.80	97x97	With screws	64	75
53.301.81	97x97	With studs	64	75
53.301.82	129x129	With screws	92	100
53.301.83	129x129	With studs	92	100



ABS Hose vent with collar

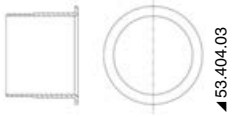
Made of ABS

Code	⟷ mm					Type	Color	For hose of items
	A	B	C	Ø Neck D	H			
53.273.01	92	92	62	76	-	straight	White	**16.104.35**
53.273.02	92	92	62	76	-	straight	Black	**16.104.35**
53.273.03	126	126	76	102	-	straight	White	**16.104.36**
53.273.04	126	126	76	102	-	straight	Black	**16.104.36**
53.274.01	92	92	108	76	32	90°	White	**16.104.35**
53.274.02	92	92	108	76	32	90°	Black	**16.104.35**

◢53.404.01/02

◢53.404.03

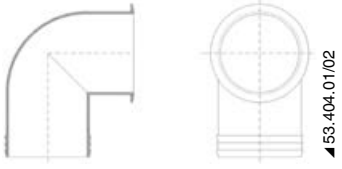
◢53.404.01/02


◢53.404.03

Pivoting hose-vent connectors for stainless steel vents

Made of plastic.

Code	Reference vent	Type	Neck Ø mm	Hose Ø mm	Adaptable hose
53.404.01	53.301.80; 53.301.81; 53.302.01	90°	76	80	**16.104.35**
53.404.02	53.301.82; 53.301.83; 53.302.02	90°	102	102	**16.104.36**
53.404.03	53.301.80; 53.301.81; 53.302.01	straight	-	80	**16.104.35**


◢53.404.01/02

Butterfly vents

Made of **polished stainless steel**, fitted with rotating locking system.

Code	Ø mm	fly screen
53.214.45	102	no
53.214.46	102	yes
53.214.55	127	no
53.214.56	127	yes
53.214.65	152	no
53.214.66	152	yes

Inlet/outlet air grid

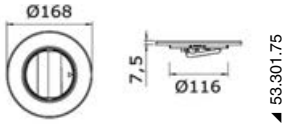
Made of **stainless steel**, fitted with screen.

Code	Neck Ø mm
53.301.74	58

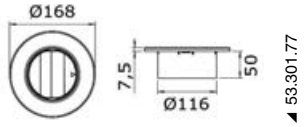
Air grid

Fitted with adjustable and closing **white ABS** fins, covering ring for the screws.

Code	External Ø mm	Hole Ø mm	Neck Ø mm	Version
53.301.75	163	115	-	rear flush mount
53.301.77	163	-	115	rear with neck size 50 mm (overhang)



◢53.301.75



◢53.301.77

Concentric air diffusers

Made of **white ABS**, designed for air distribution.

Code	Ø mm	Hole Ø mm	Mounting
53.301.78	165	125	with 3 screws
53.301.79	165	125	with spring clips

ABS Louvred vents

Made of **ABS plastic**.

Code	⟷ mm	Color
53.273.26	85x85	Black
53.273.27	85x85	White
53.273.28	85x85	Cream
53.273.29	85x85	Grey
53.480.82	125x125	Black
53.480.84	125x125	White
53.480.86	125x125	Cream

Collars

Made of **ABS with two diameters**; used to connect fan hose to the bulkhead

Code	Ø mm	For hoses	Mounting holes
53.273.24	70/80	similar to our model 16.104.30/35	Corresponding to grid models 53.273.26; 53.273.27; 53.301.80

Nylon louver

Made of **nylon**.

Code	⟷ mm	Colour
53.301.05	125x260	Black
53.301.06	125x260	White

53.301.06

53.301.05

ABS louver

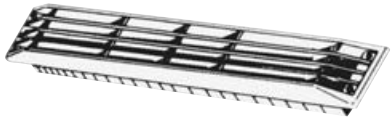
Made of **ABS plastic**.

Code	⟷ mm	Color
53.273.90	201x101	black
53.273.91	201x101	white

"Zebra" Louvred vents

Made of **ABS** plastic.

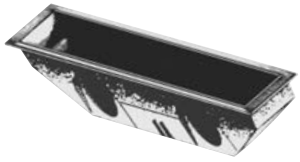
Code	⟷ mm	Recess mm	Colour
53.458.01	435x64	405x48	black
53.458.02	435x64	405x48	white



Rear container

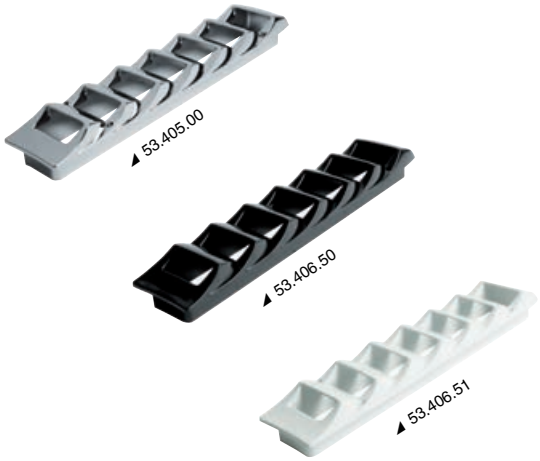
To connect hose to the fan. Made of **ABS** plastic.

Code	To be used with	Depth mm
53.451.00	53.458.01; 53.458.02	115



ABS air inlet for engine room

Code	External mm
53.408.00	420x120

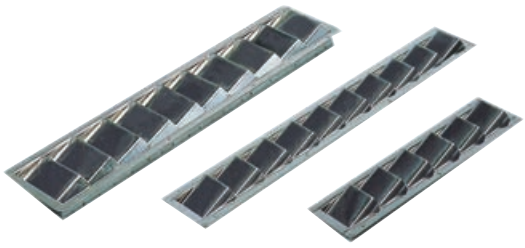


ABS side vent

Made of **chromed ABS**; fitted with a very low streamlined profile.

Code	⟷ mm	recess fit mm	Color	Ventilation box*
53.405.00	415x83	395x58	chromed	**53.407.00**
53.406.50	415x83	395x58	black	**53.407.00**
53.406.51	415x83	395x58	white	**53.407.00**

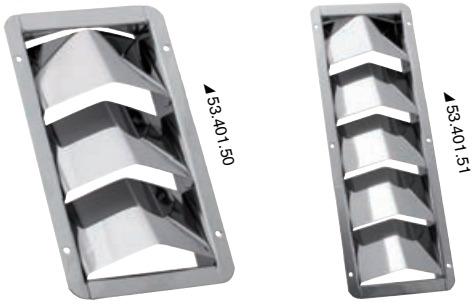
* *Made of **ABS**, designed to connect into louvred vents models 53.405.00; 53.406.50; 53.406.51, two ventilation hose model 16.104.30; 16.104.35, size 294x60 mm; for recess fit onto the other air intakes mentioned above.*



Stainless steel side louver

Made of mirror-polished **stainless steel**.

Code	⟷ mm	recess fit mm
53.204.01	525x112	27
53.205.01	325x76	27
53.206.01	525x76	27



Large capacity Louvred vents

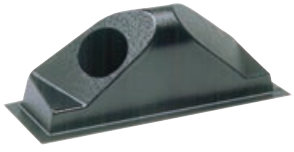
Made of **stainless steel**, genuine Japanese product, designed for engine bays.

Code	⟷ mm
53.401.50	205x114
53.401.51	326x114

Containers

Made of **stainless steel**, suitable for piping air on the base of inboard motors using flexible pipes; designed to be coupled with Louvred vent models 53.401.50/51.

Code	Model	To be combined with air vents
53.402.01	For one 75-mm Ø tube item 16.104.30; 16.104.35	**53.401.50**
53.402.02	For two 75-mm Ø tubes item 16.104.30; 16.104.35	**53.401.51**



Rear channelling containers

Made of **black ABS** plastic, suited for air vents.

Code	Version	Ø mm	Suitable	For pipe
53.403.02	right	75	**53.401.51**	**16.104.30; 16.104.35**
53.403.03	left	75	**53.401.51**	**16.104.30; 16.104.35**

► Self-adhesive letters and identification plates

Self-adhesive letters, height 20 cm

Made of **plastic; suitable for dinghies**; very flexible, self-modelling, stick perfectly into the surface of dinghies; salt-resistant black colour; it does not get damaged when the dinghy is deflated; all letters and numbers are available, **package includes 10 letters/numbers** per type.

Code	Description	Height cm	ORDER BY BOX
54.533.10-1	Letters and numbers	20	10

Please indicate the complete product number on the order. I.E. 54.533.10Q for letter Q or 54.533.10-5 for number 5.

Self-adhesive letters, height 8 cm

Suitable as identification tags and names for dinghies; made of **black elastic material**; complies with current safety standards; all letters and numbers available in a **10-item** package per type.

Code	Description	Height cm	ORDER BY BOX
54.534.08-1	Letters and numbers	8	10

Please indicate the complete product number on the order. I.E. 54.534.08S for letter S or 54.533.10-5 for number 5.

Self-adhesive plastic letters “Targa”

Available in **white** or **black**.
Type-tested as boat registration letters in compliance with the Italian Merchant Navy Ministry.
Fitted with self-alignment system and salt-resistant glue.
All letters come in a **10-piece** package.

Description	Height 20 cm		ORDER BY BOX
	White	Black	
Numbers	**54.532.10BI-1**	**54.532.10NE-1**	10
Letters	**54.532.10BI-2**	**54.532.10NE-2**	10

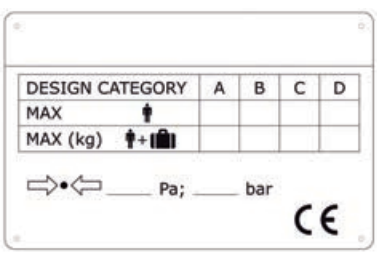
*Please indicate the item complete code on the order. I.E. 54.532.10NE-G for **black** letter G or 54.532.10BI-8 for **white** number 8.*

Boat identification plates

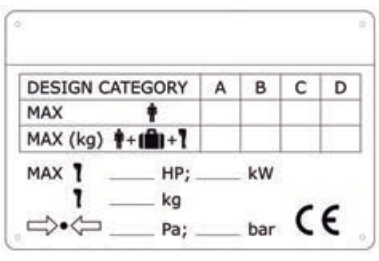
CE Made of **anodized aluminium, silk-screen printed**, complies with EC standards.

◢ 54.409.01

Code	⟷ mm	Type
54.409.01	140x13	For serial numbers
54.410.00	155x100	For outboard engines
54.411.00	155x100	For in/outboard engines



◢ 54.411.00



◢ 54.410.00

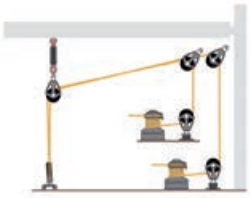
► Shock absorbers

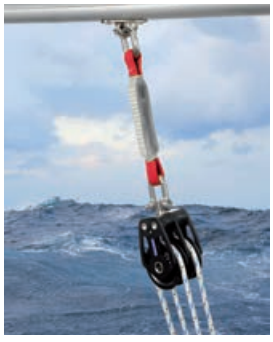
OSCULATI

Rig Angel mainsheet shock absorber

Made of Dyneema tape, with energy absorber that slows down the boom in the event of an accidental gybe. Simple to install between the boom and the mainsail coarse, the absorber deploys when it reaches the preset load to avoid danger of damage to the shrouds and the rig.

Code	Operating load kg	Breaking load kg	Recommended for boats m	Length mm	9
55.180.01	550	2500	6/9	200	60
55.180.02	800	4000	9/11	200	60





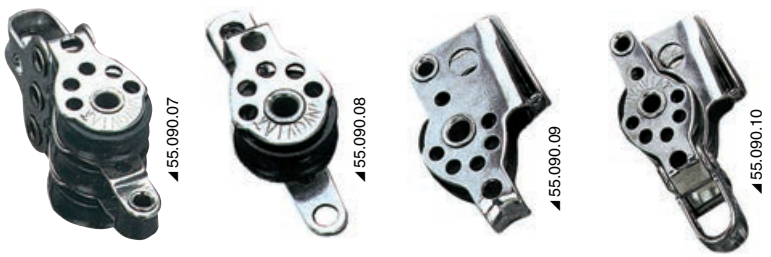
► VIADANA blocks for sailing dinghies

VIADANA YACHT EQUIPMENT

VIADANA micro-block for ropes up to 5 mm

Made of stainless steel, fitted with black nylon sheave.

Code	Version	Sheave Ø mm	For ropes up to mm	Breaking load kg
55.090.01	Single	17	5	300
55.090.02	Single with becket	17	5	300
55.090.03	Swivel with shackle	17	5	200
55.090.04	Double	17	5	300
55.090.05	Double with becket	17	5	300
55.090.06	Triple	17	5	300
55.090.07	Triple with becket	17	5	300
55.090.08	Footblock (2-screw mounting)	17	5	300
55.090.09	Single with becket and cam	17	5	300
55.090.10	Double with becket and cam	17	5	300
55.090.11	Triple with becket and cam	17	5	300
55.090.20	Optimist-type block	17	5	300
55.090.30	Shackle for 55.090.01/02	17	5	300
55.090.31	Double in-line block	17	5	300



VIADANA Regatta mini-blocks for ropes up to 6 mm

Made of stainless steel, fitted with nylon sheave.

Code	Version	Sheave Ø mm	For ropes up to mm	Breaking load kg
55.040.01	Single	25	6	650
55.040.02	Single with becket	25	6	650
55.040.03	Swivel with shackle	25	6	350
55.040.04	Double	25	6	650
55.040.05	Triple	25	6	650
55.040.06	Single with becket and cam	25	6	650
55.040.07	Double with becket and cam	25	6	650
55.040.08	Triple with becket and cam	25	6	650
55.516.75	Single footblock	25	6	650
55.514.75	Single with radiused base	25	6	650
55.040.20	Shackle for 55.040.01/02 - 55.042.01/02	25	6	650

VIADANA Regatta mini-blocks for ropes up to 8 mm

Made of stainless steel, fitted with nylon sheave.

Standard	On ball bearings	Version	Sheave Ø mm	For ropes up to mm
55.042.01	**55.043.01**	Single	25	8
55.042.02	**55.043.02**	Single with becket	25	8
55.516.78	**-**	Single footblock	25	8
55.514.78	**-**	Single with radiused base	25	8
55.042.03	**55.043.03**	Swivel head	25	8

VIADANA Wind Speed ball bearing block

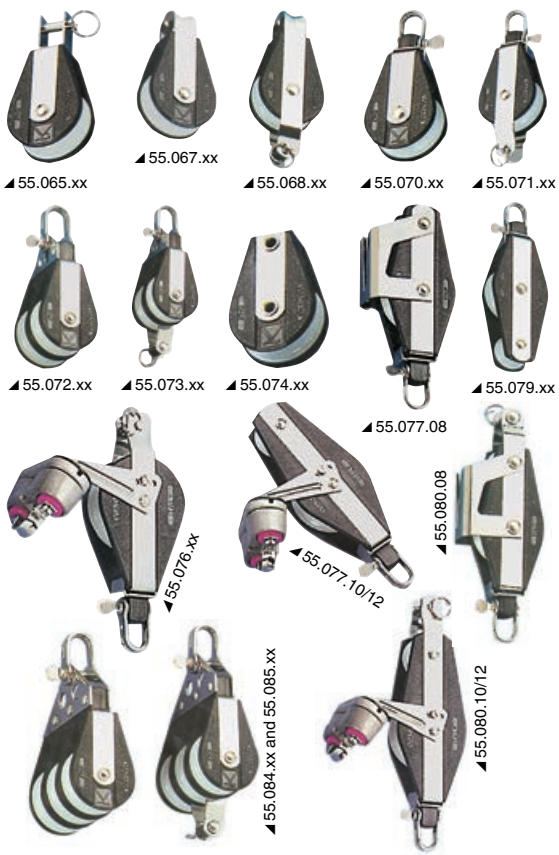
Black nylon and stainless steel reinforced model.

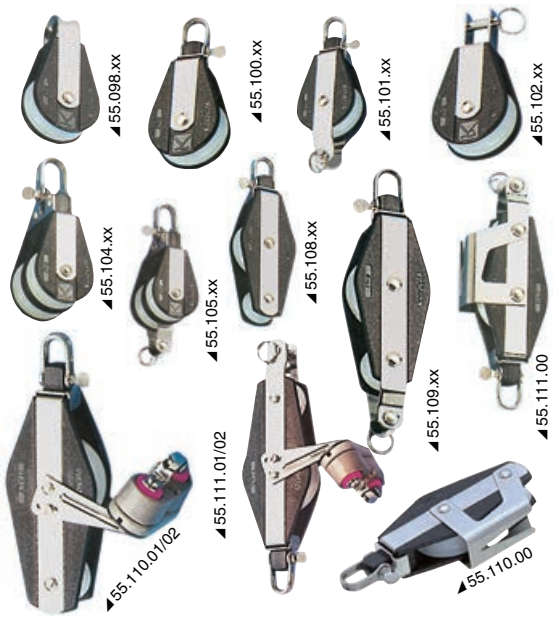
Technical features

Version	For ropes mm	Sheave Ø mm	Breaking load kg	Working load kg
A	8	34	800	300
B	10	45	950	370
C	12	56	1450	580

Model	A	B	C
Single with fixed toggle head	**55.065.08**	**55.065.10**	**-**
Single with fixed head	**55.067.08**	**55.067.10**	**-**
Single with becket and fixed head	**55.068.08**	**-**	**-**
Single with fixed or swivel head	**55.070.08**	**55.070.10**	**55.070.12**
Single with becket and fixed or swivel head	**55.071.08**	**55.071.10**	**55.071.12**
Double with fixed head	**55.072.08**	**55.072.10**	**55.072.12**
Double with becket and fixed head	**55.073.08**	**55.073.10**	**55.073.12**
Single footblock	**55.074.08**	**55.074.10**	**55.074.12**
Single with becket, cam and swivel head	**-**	**55.076.10***	**55.076.12***
Double fiddle with cam and swivel head	**55.077.08**	**55.077.10***	**55.077.12***
Double fiddle with swivel head	**55.079.08**	**55.079.10**	**55.079.12**
Double fiddle with becket, cam and swivel head	**55.080.08**	**55.080.10***	**55.080.12***
Triple with fixed head	**55.084.08**	**55.084.10**	**55.084.12**
Triple with becket and fixed head	**55.085.08**	**55.085.10**	**55.085.12**

* ***Ball bearing*** *cleats*





VIADANA Plastinox control blocks

Made of black nylon, fitted with **stainless steel stiffeners**.

Technical features

Version	For ropes up to mm	Sheave Ø mm	Breaking load kg	Working load kg
A	8	34	800	300
B	10	45	950	370
C	12	56	1450	580

Model	A	B	C
Single with fixed head	**55.098.00**	**55.098.01**	-
Single with swivel or fixed head	**55.100.00**	**55.100.01**	**55.100.02**
Single with becket and swivel or fixed head	**55.101.00**	**55.101.01**	**55.101.02**
Single with swivel toggle head	**55.102.00**	**55.102.01**	-
Double with shackle head	**55.104.00**	**55.104.01**	**55.104.02**
Double with becket and shackle head	**55.105.00**	**55.105.01**	**55.105.02**
Fiddle with swivel or fixed head	**55.108.00**	**55.108.01**	**55.108.02**
Fiddle with becket and swivel or fixed head	**55.109.00**	**55.109.01**	**55.109.02**
Fiddle with cam and swivel or fixed head	**55.110.00**	**55.110.01**	**55.110.02**
Fiddle with becket, cam and swivel or fixed head	**55.111.00**	**55.111.01**	**55.111.02**

VIADANA Delrin ball bearing block

Made of black nylon, fitted with **stainless steel stiffeners**.

Technical features

Version	For ropes mm	Sheave Ø mm	Breaking load kg	Max weight kg
A	6	22	700	100
B	8	28	750	150
C	10	38	950	230
D	12	57	1000	280
E	14	76	2300	800

Type	A	B	C	D	E
Single with fixed head	**55.025.06**	**55.025.08**	**55.025.10**	-	-
Single with swivel toggle and shackle head	**55.026.06**	**55.026.08**	**55.026.10**	-	-
Single with fixed or swivel shackle head	-	-	-	**55.026.12**	**55.026.14**
Single with swivel toggle U-shaped head	**55.027.06**	**55.027.08**	-	-	-
Single with becket and fixed head	**55.028.06**	**55.028.08**	**55.028.10**	-	-
Single with becket and swivel shackle head	-	**55.029.08**	**55.029.10**	**55.029.12**	-
Double with shackle head	**55.030.06**	**55.030.08**	**55.030.10**	**55.030.12**	-
Double with becket and shackle head	**55.031.06**	**55.031.08**	**55.031.10**	**55.031.12**	-
Triple with shackle head	**55.032.06**	**55.032.08**	**55.032.10**	**55.032.12**	-
Triple with becket and shackle head	**55.033.06**	**55.033.08**	**55.033.10**	**55.033.12**	-
Triple with carbon ball bearing cam cleat	**55.034.06**	**55.034.08**	**55.034.10**	-	-
Triple with becket and carbon ball bearing cam cleat	**55.035.06**	**55.035.08**	**55.035.10**	-	-
Footblock	**55.036.06**	**55.036.08**	**55.036.10**	**55.036.12**	-
Single with clamp swivel head for 22/25-mm Ø stanchion or pulpit	**55.037.06**	**55.037.08**	-	-	-
Swivel with carbon cam cleat	-	**55.039.08**	-	-	-
Linked blocks	**55.024.06**	**55.024.08**	-	-	-

55.242.30/40 55.242.50/60 55.351.40 55.541.00/10

Accessories for VIADANA Wind Speed blocks

Code	Description
55.351.40	Base for mounting universal blocks
55.242.30	Spring to fit between 55.351.40 and head for size 8/10 mm
55.242.50	Washer to fit between the spring and head for 10 mm
55.242.40	Spring to fit between 55.351.40 and head for 12 mm (without washer)
55.541.00	Swivel for coupling 55.076.10 with double and triple blocks
55.541.10	Swivel for coupling 55.076.12 with double and triple blocks
55.242.60	Washer to fit between 55.351.40 and head for 8 mm

Snap shackle for VIADANA blocks

Made of cast **stainless steel**, designed to match Wind Speed swivel head blocks and ball bearing blocks.

Code	For blocks mm
55.293.00	10
55.293.10	12

VIADANA composite material ball bearing block

Lightweight yet very sturdy.

Technical features				
Version	**For ropes mm**	**Sheave Ø mm**	**Breaking load kg**	**Working load kg**
A	10	38	600	230
B	12	57	1080	320

Model	Version A	Version B
1 swivelling sheave	-	**55.049.02** -
1 swivelling sheave with shackle	**55.050.01** -	-
1 lockable sheave	-	**55.050.02** -
1 swivelling or lockable sheave with becket	**55.051.01** -	**55.051.02** -
2 sheaves (universal head)	**55.052.01** -	**55.052.02** -
2 sheaves (universal head) with becket	**55.053.01** -	**55.053.02** -
3 sheaves (universal head)	**55.054.01** -	**55.054.02** -
3 sheaves (universal head) with becket	**55.055.01** -	**55.055.02** -
1 sheave with becket and max 8-mm cam cleat	**55.056.01** **Aluminium** cam cleat for max 8-mm Ø rope	**55.056.02** -
3 sheaves (universal head) with cam cleat	**55.057.01** **Carbon** cam cleat for max 8-mm Ø rope	**55.057.02** -
3 sheaves (universal head) with becket and cam cleat	**55.058.01** **Carbon** cam cleat for max 8-mm Ø rope	**55.058.02** -
1 footblock	**55.059.01** -	**55.059.02** -
Double fiddle	**55.061.01** -	**55.061.02** -
Double fiddle with becket	**55.062.01** -	**55.062.02** -
Double fiddle with cam cleat	**55.063.01** **Carbon** cam cleat for max 8-mm Ø rope	**55.063.02** -
Double fiddle with becket and cam cleat	**55.064.01** **Carbon** cam cleat for max 8-mm Ø rope	**55.064.02** -
Quadruple block	-	**55.065.02** Max 10-mm Ø rope

A >>>

◢55.050.01 ◢55.051.01 ◢55.052.01 ◢55.053.01 ◢55.054.01 ◢55.055.01 ◢55.056.01

◢55.057.01 ◢55.059.01 ◢55.061.01 ◢55.062.01 ◢55.063.01 ◢55.064.01

B >>>

◢55.050.02 ◢55.051.02 ◢55.052.02 ◢55.053.02 ◢55.054.02 ◢55.055.02 ◢55.056.02 ◢55.057.02

◢55.058.02; 55.059.02; 55.061.02; 55.062.02 ◢55.063.02; 55.064.02; 55.065.02; 55.049.02

VIADANA micro-block

Made of nylon and AISI316 stainless steel.

Code	Version	Sheave Ø mm	For ropes mm	Breaking load kg
55.250.01	Single with fixed head	22	4/6	450
55.250.02	Single with becket	22	4/6	450
55.250.03	With swivel toggle head	22	4/6	450
55.250.04	Footblock (2 fixing bores)	22	4/6	450

VIADANA composite material ball bearing ratchet block for winches

With stainless steel ball bearings + ratchet. 57-mm Ø sheave, 10-mm max Ø sheet, 900-kg breaking load, 205-kg working load.

Code	Version
55.408.00	Single, clockwise rotation
55.408.01	Single, anti-clockwise rotation

► HYE blocks for sailing dinghies

TUFNOL HYE block

Technical features

Version	For ropes mm	Tufnol sheave Ø mm	Breaking load kg
A	8	30	800
B	10	35	1000
C	12	43	1500
D	14	50	2000
E	16	60	2500

Model	A	B	C	D	E
Single with fixed head (EO)	**55.001.00**	**55.001.01**	**55.001.02**	**55.001.03**	-
Single with fixed head (EB)	**55.002.00**	**55.002.01**	**55.002.02**	**55.002.03**	**55.002.04**
Single with swivel head (EW)	**55.003.00**	**55.003.01**	**55.003.02**	**55.003.03**	**55.003.04**
Single with becket and fixed head (EBH)	**55.005.00**	**55.005.01**	**55.005.02**	-	-
Double with fixed head (TB)	**55.006.00**	**55.006.01**	**55.006.02**	**55.006.03**	**55.006.04**
Double with swivel head (TW)	**55.007.00**	**55.007.01**	**55.007.02**	**55.007.03**	**55.007.04**
Double with becket and fixed head (TBH)	**55.008.00**	**55.008.01**	**55.008.02**	**55.008.03**	-
Single with becket and swivel head (EWH)	**55.010.00**	**55.010.01**	**55.010.02**	-	-
Fiddle with swivel head (ZBW)	**55.011.00**	**55.011.01**	**55.011.02**	-	-
Single footblock (3-screw mounting) (LB)	**55.012.00**	**55.012.01**	**55.012.02**	**55.012.03**	**55.012.04**
Fiddle with becket and cam (ZBK)	**56.101.08**	**56.101.10**	**56.101.12**	-	-

HYE Offshore block

Polycarbonate and stainless steel body. high-resistance and self-lubricating **Torlon** sheave.

Technical features

Version	For ropes up to mm	Sheave Ø mm	Breaking load kg
A	16	63	3500
B	20	80	4600

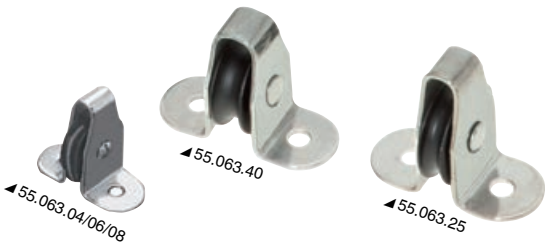
Model	A	B
Single with fixed or swivel shackle head	**55.100.16**	**55.100.20**
Single with becket and fixed or swivel shackle head	**55.110.16**	**55.110.20**
Double with fixed or swivel shackle head	**55.120.16**	**55.120.20**
Double with becket and fixed or swivel shackle head	**55.130.16**	**55.130.20**
Double with becket, cam and fixed or swivel shackle head	**55.140.16**	-

► VIADANA, SEA SURE and PFEIFFER footblocks and wire blocks

VIADANA small block

Stainless steel vertical bracket.

Code	Sheave	Sheave Ø mm	For ropes mm
55.063.04	Nylon	25	4
55.063.06	Nylon	25	6
55.063.08	Nylon	25	8
55.063.25	Aluminium	25	up to 2.5
55.063.40	Aaluminium	25	up to 4



VIADANA blocks and footblocks

Made of **stainless steel, for recess-fit** on mast or deck, fitted with **nylon sheave** for textile halyards.

Code	No of sheaves	Sheave Ø mm	For ropes up to mm	Breaking load kg
55.241.01	1	38	8	700
55.241.11*	1	38	8	700
55.038.06	1	22	6	700
55.038.08	1	28	8	750
55.240.02	1	55	12	800
55.240.03	2	25	8	560
55.240.04	2	33	10	600

* *With radiused base*

VIADANA horizontal-mounting footblock

25-mm Ø nylon sheave.

Code	For ropes mm
55.511.75	5
55.511.78	8

VIADANA movable wire block

Stainless steel flat model fitted with 25-mm Ø nylon sheave. For steel cables.

Code	For cables mm	Version
55.511.73	2.5	Single
55.512.74	4	Single

VIADANA Plastinox wire block

Made of **black nylon and stainless steel**, fitted with **hard anodized aluminium** sheave, for steel cables, with fixed or swivel head.

Code	Sheave Ø mm	For cables up to mm	Breaking load kg
55.099.00	34	4	700
55.099.01	45	5	950
55.099.02	55	6	1450

VIADANA recess-fit blocks for wire cables

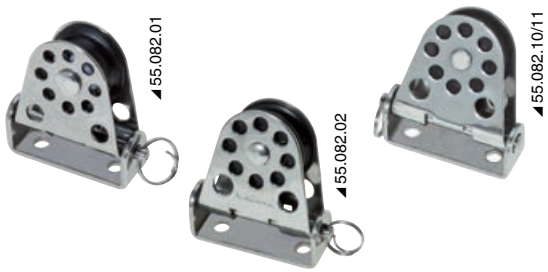
Made of **stainless steel, for recess-fit** on mast or deck, fitted with **aluminium sheave**, for wire ropes.

Code	No of sheaves	Sheave Ø mm	For wire ropes up to mm	Breaking load kg
55.241.03	1	40	5	700
55.241.04	1	22	3	500
55.241.06	1	28	4	500
55.240.05	1	34	5	700

VIADANA vertical footblock

Stainless steel body.

Code	Type	Sheave	Sheave Ø mm	For ropes mm
55.063.50	Single	Delrin on ball bearings	22	6
55.063.51	Double	Delrin on ball bearings	22	6
55.063.52	Single	Delrin on ball bearings	28	8
55.063.53	Double	Delrin on ball bearings	28	8
55.063.60	Single	Aluminium	25	4
55.063.61	Single	Aluminium	28	4



VIADANA vertical pivoting footblock

Stainless steel body.

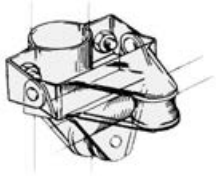
Code	Sheave	Sheave Ø mm	For ropes mm
55.082.01	Delrin on ball bearings	22	6
55.082.02	Delrin on ball bearings	28	8
55.082.10	Aluminium	25	4
55.082.11	Aluminium	28	4

VIADANA pivoting footblock

Stainless steel body.

Code	For ropes mm	Base mm	Sheave	
			material	Ø mm
55.081.01	10/12	83x42	**nylon**	55

seasure



SEA SURE footblock for furling systems

Made of mirror-polished **stainless steel**.

Code	For stanchion Ø mm	For sheets up to mm
55.508.00	25	12

VIADANA footblock for furling systems

It keeps the sheet on the **outer part** of the deck. The **large** diameter **Delrin ball bearing** sheave makes furling the jib easier while it usually requires great efforts.

Code	Shreave Ø mm	For sheets up to mm	Central hole mm	Working load kg	g
55.502.00	57	12	25.8	280	120

Footblock for furling system

A) Made of nylon, completely **articulated** on two axes.
B) Made of nylon, with stainless steel sheet passage.

Code	Sheave Ø mm	For sheets up to mm	For stanchion Ø mm	Rope passage max Ø mm	Version
55.503.00	24	10	25	-	A
55.504.00	-	-	25	12	B

PFEIFFER recess fit aluminium block

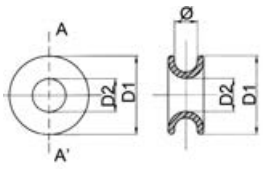
Made of **black aluminium**, fitted with **aluminium** sheave, for textile or metal halyards

Code	⟷ mm	Sheave Ø mm
55.708.40	107x47x33	40x12

Low-friction ring

Made of self-lubricating hard-anodized light alloy.
Ideal as block, guide ring, strong point, lazy jack, barber hauler, etc. For accurate adjustments.

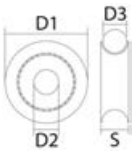
Code	D1 mm	D2 mm	Ø mm
58.197.13	13	5	3
58.197.19	19	7	5
58.197.25	25	10	7
58.197.35	35	14	10



► Sheaves for blocks

Delrin® sheave with stainless steel caps and ball bearings

Code	D1 mm	D2 mm	D3 mm	S mm	Colour
55.244.01	20	5.3	8	12.3	White
55.244.02	28	5.3	8	11.0	Black
55.244.03	28	5.3	10	14.6	Black
55.244.04	38	8.8	12	20.6	Black
55.244.05	44	8.8	14	21.9	Black

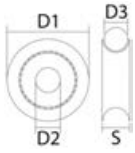


◢ 55.244.01

◢ 55.244.02/03/04/05

Delrin® sheave

Code	D1 mm	D2 mm	D3 mm	S mm	Colour
55.245.01	17	6.2	5	7	Black
55.245.02	28	8.2	10	13.4	White
55.245.03	34	8.2	8	10.5	White
55.245.04	34	12.2	12	17.6	White
55.245.05	45	12.2	10	13.5	White
55.245.06	56	12.2	12	17.6	White



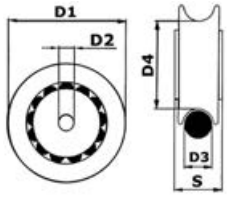
◢ 55.245.01

◢ 55.245.02/03/04/05/06

Nylon sheave on Delrin® ball bearings

To be used by locking the central hub fitted with a hole.
The sheave rotates on the ball ring thus minimizing friction.

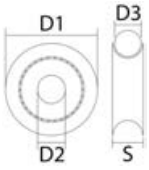
Code	D1 mm	D2 mm	D3 mm	D4 mm	S mm	Working load kg
55.243.01	29	5.1	8	22	12.5	130
55.243.02	38	5.1	10	29	15.9	190
55.243.03	57	6.1	12	46	19.8	240



Aluminium sheave

Hard anodizing + PTFE, with plastic insert.

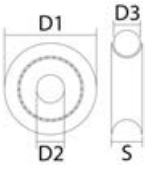
Code	D1 mm	D2 mm	D3 mm	S mm	Colour
55.246.01	28	8.2	4	10.2	Black
55.246.02	34	8.2	5	13.6	Black



Stainless steel sheave

With plastic insert.

Code	D1 mm	D2 mm	D3 mm	S mm
55.247.01	16	5.2	5 textile; 2.5 SS	6.4

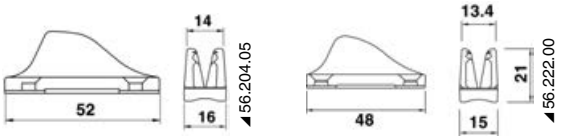


► Clam cleats

CLAMCLEATS Mini plas

For sheets up to 6 mm.

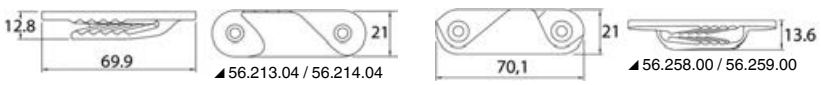
Code	For sheets mm	Manufacturer's code	Material
56.204.05	3/6	(CL204)	nylon
56.222.00	3/6	(CL222)	aluminium



CLAMCLEATS Fine

For sheets up to 6 mm.

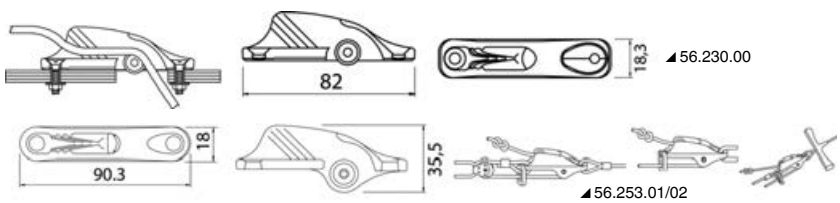
Code	For sheets mm	Manufacturer's code	Material	Notes
56.213.04	3/6	(CL213)	nylon	right
56.214.04	3/6	(CL214)	nylon	left
56.258.00	3/6 left	(CL258)	aluminium	ideal for sails
56.259.00	3/6 right	(CL259)	aluminium	ideal for sails

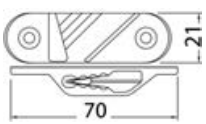


CLAMCLEATS Trapeze Silver

Racing version with roller. For sheets up to 6 mm.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.230.00	3/6	(CL230)	aluminium	with low roll
56.236.00	3/6	(CL236)	aluminium	with high roll
56.253.01	3/6	(CL253)	aluminium	for trapez and vang.
56.253.02	3/6	(CL253AN)	aluminium	hard black oxidation





CLAMCLEATS Sail Line Ali

For racing sail sheets up to 6 mm.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.241.00	3/6	(CL241)	aluminium	ideal for sails

CLAMCLEATS Micro

For sheets up to 4 mm.

Code	For sheets mm	Manyfacturer's code	Material
56.263.00	1/4	(CL263)	nylon

CLAMCLEATS Junior Ali Silver

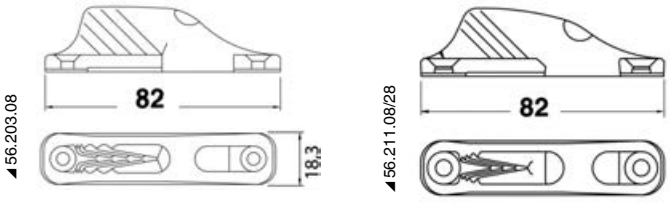
For sheets up to 6 mm.

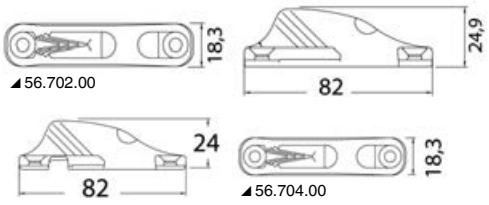
Code	For sheets mm	Manufacturer's code	Material	Notes
56.211.18	3/6	(CL211MK2)	aluminium	
56.211.38	3/6	(CL211MK2AN)	aluminium	black hard oxidation

CLAMCLEATS Junior

For sheets up to 6 mm.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.203.08	3/6	(CL203)	nylon	
56.211.08	3/6	(CL211MK1)	aluminium	
56.211.28	3/6	(CL211MK1AN)	aluminium	hard black oxidation
56.702.00	3/6	(CL702)	aluminium	for boom
56.704.00	3/6	(CL704)	aluminium	for boom + becket





CLAMCLEATS Side Silver

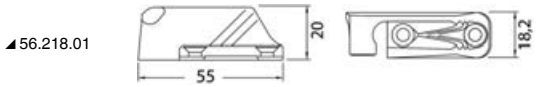
With side entry. For sheets up to 6 mm.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.217.00	3/6	(CL217MK1)	aluminium	right
56.218.00	3/6	CL218MK1)	aluminium	left

CLAMCLEATS Side Silver Compact

With side entry failead. For sheets up to 6 mm.

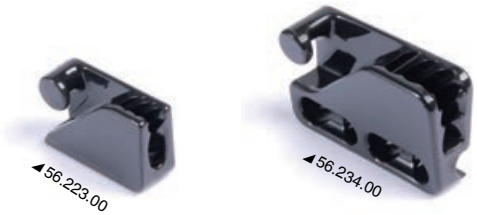
Code	For sheets mm	Manufacturer's code	Material	Notes
56.217.01	3/6	(CL217MK2)	aluminium	right
56.218.01	3/6	(CL218MK2)	aluminium	left

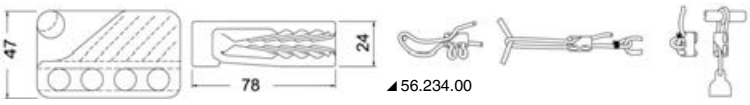


CLAMCLEATS Loop

Movable version for tensioning ropes.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.223.00	3-6	(CL223)	nylon	ideal for loops and fastening
56.234.00	6/12	(CL234)	nylon	ideal for loops and fastening

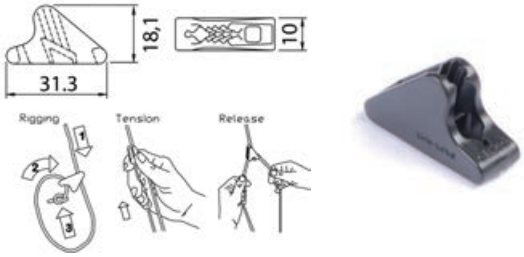




CLAMCLEATS Line - Lok

For sheets up to 5 mm.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.260.00	2-5	(CL260)	nylon	ideal for loops and fastening



CLAMCLEATS Windsurfing Boom

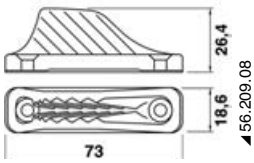
With support for fastening to the boom. For sheets up to 6 mm.

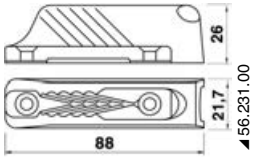
Code	For sheets mm	Manufacturer's code	Material	Notes
56.235.00	3/6	(CL244)	aluminium	for surf boom

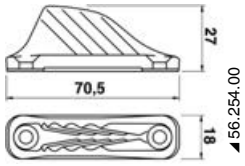
CLAMCLEATS Midi

For sheets up to 8 mm.

Code	For sheets mm	Manufacturer's code	Material	Notes
56.209.08	4/8	(CL209)	nylon	-
56.231.00	4/8	(CL231)	nylon	with U-bolt
56.254.00	4/8	(CL254)	aluminium	-



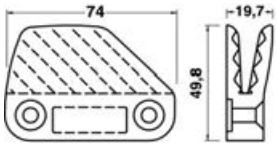




CLAMCLEATS Lat

For side fastening. For sheets up to 10 mm.

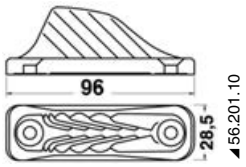
Code	For sheets mm	Manufacturer's code	Material	Notes
56.206.10	6/10	(CL206)	nylon	right
56.207.10	6/10	(CL207)	nylon	left

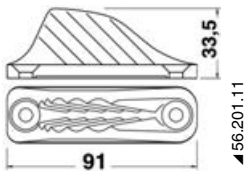


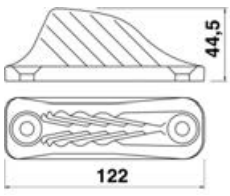
CLAMCLEATS Vertical

For sheets up to 12 mm.

Code	For sheets mm	Manufacturer's code	Material
56.201.10	6/12	(CL201)	nylon
56.201.11	6/12	(CL219)	aluminium







CLAMCLEATS Major

For sheets up to 16 mm.

Code	For sheets mm	Manufacturer's code	Material
56.202.16	10/16	(CL205)	nylon

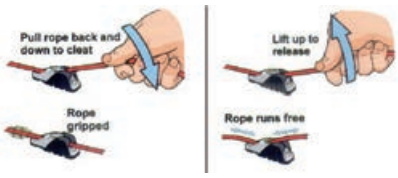
CLAMCLEATS Autoreleas

Made of aluminium with acetal base; **self-locking** when the load exceeds the maximum allowed; ideal for locking/unlocking the wheel's blade in case of obstacles or burying.

Code	Ropes mm
56.257.00	4/6

Sheet fairlead for CLAMCLEATS

56.814.00 It matches 56.203.08; 56.211.08/28; 56.217.00; 56.218.00; 56.236.00. It avoids the sheet to release accidentally but it can also let the sheet glide freely.



Alloy cam cleat on ball bearings

56.253.00 Made of **anodized aluminium**, fitted with jaws mounted on **Delrin balls**. 64 x 30 mm base, for 5- to 12-mm lines.

Fiber cam cleat on ball bearing

Made of **carbon fiber on ball bearings**, very sturdy and light.

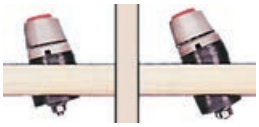
Code	Suitable for lines mm	⟷ mm	Pillar fairlead for cleats OPTIONAL
56.025.10	3/8	47x23x20	**56.025.14**
56.025.32	5/14	64x30x28	**56.025.44**
56.025.11	3/8	47x23x20 with anodized aluminium jaws	**56.025.14**

Coloured bridges

Code	For cleats	Color
56.025.15	56.025.10	black
56.025.16	56.025.10	red
56.025.17	56.025.10	yellow
56.025.18	56.025.10	blue

Code	For cleats	Color
56.085.45	56.025.32	black
56.085.46	56.025.32	red
56.085.47	56.025.32	yellow
56.085.48	56.025.32	blue

Code	Description	
56.318.00	Upper wire fairlead for cam cleat	56.025.10
56.319.00	Upper wire fairlead for cam cleat	56.253.00; 56.025.32
56.254.20	Wire Fairlead **in stainless steel** for	56.253.00
56.254.21	Low profile Stainless steel fairlead for	56.253.00; 56.025.32
56.254.40	Angled Base in **delrin** for	56.253.00
56.254.10	Flat Base in **delrin** for	56.253.00



Installation example

56.318.00

56.254.10

56.254.40

56.319.00

56.254.20

56.254.21

Usage and mounting instructions

. PICTURE 1 -]a special device keeps the jaw on the axis, at the point where they shall be. This guarantees an easy mounting as the clam cleat does not strip.

PICTURE 2 - The Derlin jaws have a special indent made of polished stainless steel, therefore it does not required any type of maintenance and has a long lasting life. The indent is made without joints and the surface has a polished finish to provide maximum protection on the sheet; this instrument combines lightweight with the sturdiness of stainless steel.

PICTURE 3 - Position the sheet in vertical position, the jaws shall snap in automatically. Unlike other ones that have to be opened, the indent of the jaws, when inclined forward on the upper part, transform the vertical pressure of sheet (A) in a swivelling movement of jaws (B) (patented).
This ensures maximum functionality; no other clam cleat has this special feature.

CLEAT SPRING GERMANY SERVO

FIGURE 1

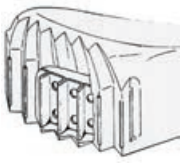


FIGURE 2

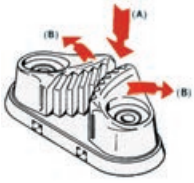


FIGURE 3

"Servo 11"

Fitted with sheet fairlead (see picture) and screws, packed in clear bags with display packaging

Code	Suitable for lines mm	On center mm	Height mm
56.011.00	3/8	27	18

"Servo 22"

Fitted with screws, packed in clear bags with display packaging.

Code	Suitable for lines mm	On center mm	Height mm
56.022.00	6/12	42	22
56.022.01	6/12	40	22
56.022.02	6/12	37	22

"Servo 33"

Fitted with screws, packed in clear bags with display packaging.

Code	Suitable for lines mm	On center mm	Height mm
56.033.00	10/14	52	31

"Servo 44"

Sliding features, flat built without plastic base and oversized axis, fitted with screws.

Code	Suitable for lines mm	On center mm	Height mm
56.014.00	10/14	52	27

Sheet guide for Servo 22

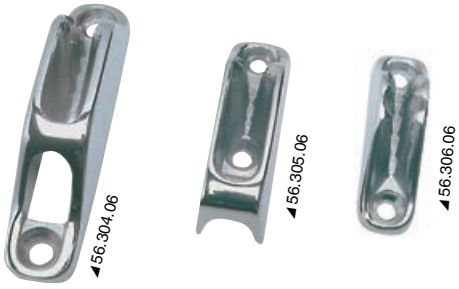
56.022.10 Optional (lower guide as per picture Servo 11), positioned under the clamp.

Over sheet fairlead

Horizontal, fitted with plates.

Code	For servo	On center mm
56.022.40	22	40
56.022.33	33/44	52

OSCULATI

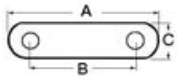


AISI316 stainless steel clam cleats

AISI 316

Made of precision-cast AISI 316 stainless steel, fitted with conic locking teeth, mirror polished finish.

Code	For ropes mm	Material	A mm	B mm	C mm
56.304.06	3/6	AISI 316	82	66	18
56.305.06	3/6	AISI 316	55	27	17
56.306.06	3/6	AISI 316	48	36	15



► Downhaul and towers

Cam cleat swivel base

Made of anodized aluminium with ball bearing cam cleat.

Code	For blocks
56.266.00	55.026/029/030/031.xx

Low cam cleat swivel base

Fitted with fairlead and aluminium ball clam cleat.

Code	Max sheet size mm
56.268.00	8

Tripping line

Made of **stainless steel**, extra sturdy, Italian product.

Code	For rope mm
56.314.10	5/7

► Winch handles

Winch floating handle

Fitted with "Lock In" winch system; **universal size** for any winch; handle on **ball bearings**; made of **nylon** (fiberglass), ensure the same strength as steel handles.

Code	Length mm
57.176.09	200 (8")
57.176.10	250 (10")

Spare winch handles

Made of **anodized aluminium**, fitted with nylon handgrip and safety locking system; **universal** model.

Code	Length mm
57.109.00	200
57.109.01	250

Speadgrip universal winch handle

Made of anodized aluminium with **ball** grip.

Code	Length mm
57.110.01	250

Winch handle pocket made of PVC

Made of soft **PVC**.

Code	Section mm	Length mm
57.635.72	90x60	290

Winch handle pocket made of fabric

57.175.20 Made of sturdy white sail fabric with trims, universal model, elegant package.

Universal winch handle holder

Made of **black nylon**, suitable for winch handles; 3-screw mounting, used instead of PVC pockets.

Code	Ø base mm	Size mm
57.635.70	52	26

► Jib furlers and spreader covers

Self-adjusting spreader boots with aerodynamic profile

OSCULATI

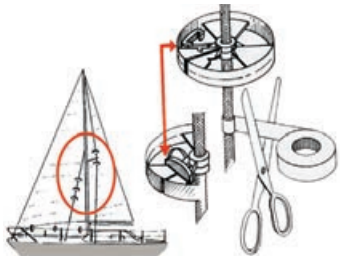
Made of soft thermoplastic, designed for round- and wing-section crosstrees.
Fast to mount by means of our self-amalgamating tape 65.115.01 or similar.

Code	For cables up to mm	For crosstrees, max section mm	External size mm	ORDER BY BOX
57.492.01	4	38x13	114x45x48	2
57.492.02	6	57x17	145x65x60	2
57.492.03	8	83x25	190x93x71	2

Self amalgamating tape for spreader boots

Made of soft UV-resistant plastic material; easy to remove when worn out.

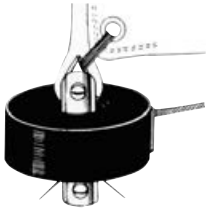
Code	Colour	Roll
57.374.00	Light grey	25 mm x 10 m



“Sailguard” sail savers

Made of **white nylon**; easily installed **without dismounting the shrouds**; supplied in an elegant package.

Code	Suitable for	ORDER BY BOX
57.373.40	stays up to 9 mm	2



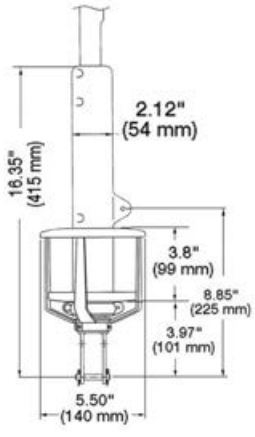
SEA SURE jib furling system with manual return line

Made of **stainless steel**, fitted with **nylon** pulley. Designed to guarantee full reliability.
The drum is closed and protected thus avoiding the line from getting stuck or twisting when opening and closing. It consists of stainless steel bearings for perfect functioning even when the forestay is under maximum tension. It is only 50-mm high thus allowing to install the jib very low, just above the deck in order for the sail to be fully efficient.
It can also be mounted below deck by using an additional stainless steel extension hose.
The jib furling system can wind up to 3.5 mm of 3-mm diameter line thus allowing the use of sails with approx. 3-mm long lower rim (length from tack to sheet). This length is shorter in case of lines with larger diameter.

Code	Suitable for	Drum Ø	g
57.299.00	All types of keels	69 mm	116

Sea Sure swivel

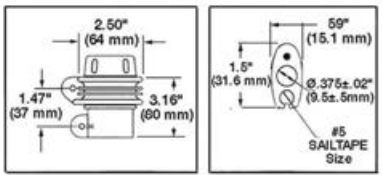
Code	Description
57.295.00	Made of stainless steel, for furler, integrated stainless steel bearing

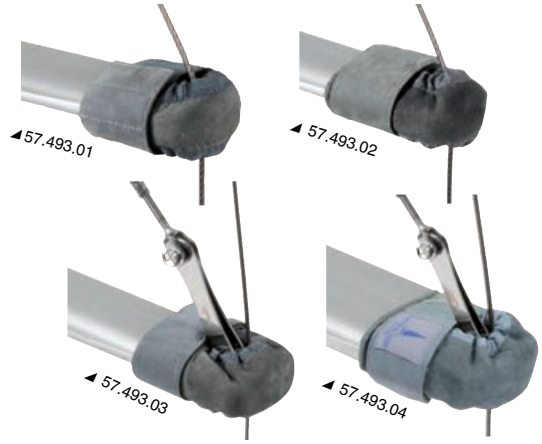


HOOD Seal Flex furling device fitted with profile

This furling device was designed to offer small boats the same advantages of large boats, maintaining a low cost. Easy to install, one piece plastic profile fitted with embed inside a steel cable to improve performance (maximum forestay length 10.30 m pin to pin).
Removable drum for high performance; made of anti-UV plastic material, rust-proof and Derlin ball bearing to provide perfect sliding.

Code	With stay up to mm	For boats
57.050.00	6	from 18’ to 26’





Real leather spreader boot

Anti-water, salt- and UV-resistant leather with elastic rim and neoprene lining.
Hook&loop fastener. For any type of crosstree.
Fast installation. Sold in pairs.

Code	Crosstree section mm	
	Continuous rig	Linked rig
57.493.01	55-95	-
57.493.02	95-122	74-95
57.493.03	-	105-122
57.493.04	122-154	122-154

► Small sail accessories

Masthead plate

Made of **stainless steel**; fitted with two shrouds fittings, one forestay and one jib halyard with pulley.

Code	Suitable for boat size
58.234.10	from m 3,5 to m 4,5

U-bolts/Clamps/Chain plate

Code	Description
58.331.00	4-hole stainless steel U bolt; suitable for boom size 40/50 mm, width mm 80
58.330.00	"V" plate made of stainless steel for boom, with four holes. Designed to mount the boom's blocks
58.531.50	"V" plate made of stainless steel for mast 50/60 mm
58.528.00	chain plate fors.s. shroud fitting size mm 15x1,5 with pin Ø mm 6
58.329.00	stainless steel hook for sheets and other uses

Stay adjuster

Code	Length mm	hole Ø mm	Plug mm	Material
58.529.00	120	6	6x10	stainless steel

Stay adjuster - dual hole intervals

Code	⟷ mm	Ø pins mm	Adjustment mm	Stroke mm	Material
58.370.80	108x23	5	3 in 3	68	stainless steel
58.370.81	115x30	6	3 in 3	68	stainless steel

58.370.80

Double chain plate

made of **stainless steel**, fitted with adjusting holes.

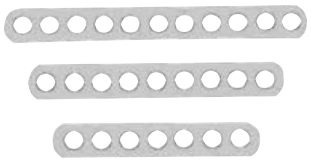
Code	⟷ mm	Pin Ø mm
58.506.30	120	6

Forestay plate made of stainless steel

Code	Ø hole mm	Base mm	Height mm
58.604.00	5	60x34	38

Stainless steel forestay adjuster plate

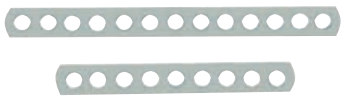
Code	various holes size mm	Base mm	Height mm
58.530.40	5	49x16	37



Traditional hollow chain plate

Made of **stainless steel**, to be used in place of rigging screws.

Code	tape size mm	hole Ø mm	⟷ mm
58.506.10	14x2	6	80
58.506.11	14x2	6	100
58.506.12	14x2	6	125
58.506.15	14x2	6	1000



Hollow chain plate, heavy

Made of **heavy stainless steel**

Code	Length mm	Width mm	Thickness mm	hole Ø mm
58.507.10	145	19	2.5	8
58.507.11	205	19	2.5	8

"U" plate suitable for the mast foot

Made of **stainless steel**, "U" shape; fitted with adjusting holes.

Code	⟷ mm	For boats
58.511.80	150	3 to 5 m

Hook for spi sheet retention

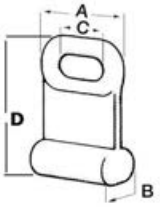
58.248.00 "Jack Holt" black nylon for spi sheet retention

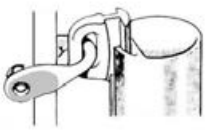
Hook "Jack Holt" for spi retention and various uses

58.061.00 Balck nylon hook "Jack Holt" for spi retention and various uses

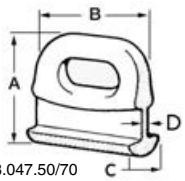
"Heavy duty" rudder retaining clip

58.021.01 Heavy duty rudder retaining clip made of stainless steel, thickness 1,6 mm with oval holes used for adjustment

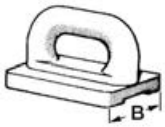




◢ 58.357.00; 58.358.00



◢ 58.047.50/70

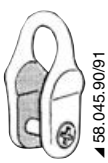


◢ 58.089.00; 58.090.00; 58.091.00; 58.092.00

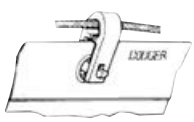
Mainsail slide

Code	A mm	B mm	C mm	D mm	Max pull load kg	Material
58.357.00	23	9	13.5	28.5	-	nylon
58.358.00	22	12	13.5	30	-	nylon
58.047.50	30	28	14	4.5	-	nylon
58.047.70	25	25	10	3	-	nylon
58.089.00	-	16	-	-	400	nylon
58.090.00	-	18	-	-	420	nylon
58.091.00	-	22	-	-	530	nylon
58.092.00	-	24	-	-	530	nylon

◢ 58.045.80



◢ 58.045.90/91



◢ 58.045.20

Mainsail slide shackle

Code	Plug (pin) Ømm	Suitable for slider model	Material	Version
58.045.91	6	**58.357.00**	Nylon	With screw
58.045.90	8	**58.358.00**	Nylon	With screw
58.045.80*	8	**58.357.00; 58.358.00**	Nylon	Snap version
58.045.20	8	**-**	Nylon	Snap version

* *Long type, plug Ø (Pin) 8 mm, light 42 mm, specially suited for fence nylon mainsails*

Sheet fairleads

Code	Description
58.101.90	black nylon sheet fairlead

Sheet fairlead with stainless steel liner

Made of **stainless steel**

Code	For rope size mm
58.101.82	4/6
58.101.83	6/8
58.101.84	8/10

Sheet fairleads

Code	Hole mm
58.141.91	9
58.141.92	13
58.141.93	17
58.241.91*	6
58.241.92*	13

* *Passing reforcement made of stainless steel*

◢58.141.91/92/93

◢58.241.91/92

► Sail battens

Battens for sails and boat awnings

Suited for **satin fibreglass** sails; high resistant and remarkable flexibility; designed according to the latest technologies and based on regatta demands

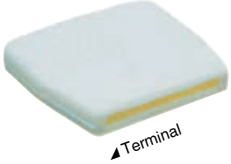
Plate mm	Round Ø mm	Bar length				Horizontal bending load	Terminals
		2 m	4 m	3 m	6 m		
18x2	-	**58.660.49**	-	-	-	320	**58.660.57**
24x2.5	-	**58.660.46**	-	-	-	600	**58.660.58***
50x4	-	**58.660.45**	**58.660.65**	-	-	2655	-
15x3	-	**58.660.50**	-	-	-	420	**58.660.53**
24x4	-	**58.660.47**	**58.660.67**	-	-	1185	**58.660.59***
30x3	-	**58.660.51**	**58.660.71**	-	-	1155	**58.660.54**
40x4	-	**58.660.52**	**58.660.72**	-	-	2080	**58.660.55**
-	10	-	-	**58.661.10**	-	9150	-
-	12	-	-	**58.661.12**	-	21025	-
-	14	-	-	-	**58.661.14**	38800	-
-	16	-	-	-	**58.661.16**	60780	-

ORDER BY BOX

* *Sold in pairs*

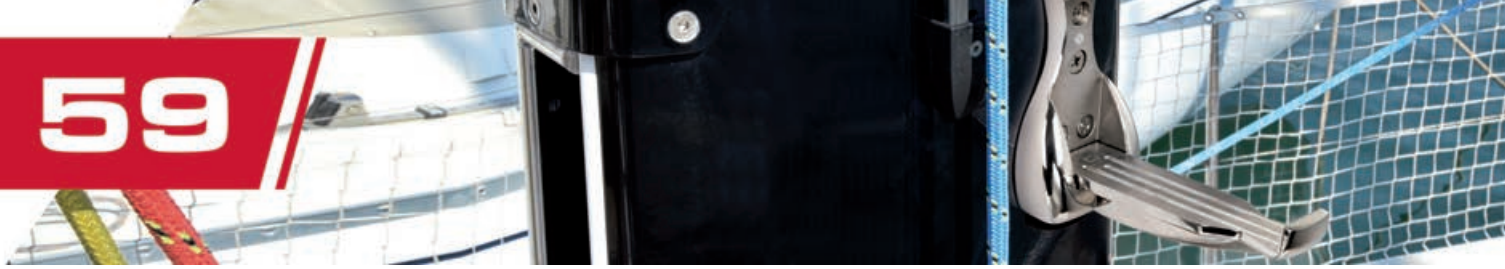
◢58.660.46/49

◢58.660.45/47/50/51/52



◢Terminal

◢58.661.10/12/14/16



► Mast steps

Foldable step

AISI 316

Foldable step ideal for aluminium masts.
- EPDM anticorrosion gasket.
- Anti-vibration device with adjustable nylon grub screw.
- Large anti-slip step.
- Made of mirror-polished AISI316 stainless steel.

Installation with M6 screws.

Code	Mounting base mm	Size mm	
		closed	opened
59.806.00	109x65	38	145

Foldable mast step

Made of stainless steel, fitted with anti-skid soft **nylon** coating.

Code	Base mm	Size mm	
		closed	opened
59.805.00	85x60	25	108

Mast steps made of 6 mm round bars

AISI 316

AISI 316 stainless steel; ideal for mast climbing without a bosun's chair, total safety, universal size to fit any type of mast; it is recommended to set a centre-to-centre space of 60 cm between the steps.

Code	⟷ LxHxD mm
59.804.00	17.5x21.5x21.5

Step for mast

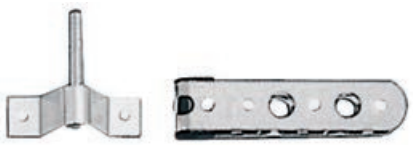
Made of stainless steel with anti-skid teak walking surface.

Code	⟷ LxHxD mm
59.803.00	286x130x16

Anti-torsion ladder for mast climbing

Made of webbing tape and aluminium steps.
The ladder has to be fixed at the mast base with the fixings supplied (ideally fixed under the boom goose neck fitting) and has then to be put under tension by means of a halyard winch. The ladder will be stiff and stable: even if you lose your balance, the ladder keeps still and doesn't twist.
The total length of the ladder shall be shorter than the mast length for utmost stretching.
When the upper end of the ladder is fully stretched, a man standing on the uppermost step should have his thorax at the same height of the masthead. Adjust the ropes for the correct length.
See instructions.

Code	Colour	For masts (l) height m	Ladder length m
59.807.04	Grey	10	8.80
59.807.05	Blue	12	10.80
59.807.07	Orange	14	12.60
59.807.09	Yellow	16	14.90



Rudder fittings - Pintles and Gudgeons

Made of **stainless steel and aluminium**.

Code	For wheel thickness mm	Bracket mm		Suitable for boats m
		short	long	
59.127.50	12	75	108	3/4
59.127.51	35	132	179	5/6

► Sticks and trapeze handles

Telescopic tiller extensions

Made of **anodized aluminium**, fitted with Soft handle.

Code	Pipe Ø mm	Handgrip Ø mm	Length cm
60.668.00	17 - 20	25	66 - 120
60.668.01	17 - 20	25	93 - 173

OSCULATI

Tiller extension

Made of **black anodized aluminium**, fitted with elastomer swivel and "golf" handgrip.

Code	Ø mm	Length cm
60.511.00	16	61
60.511.11	16	76
60.511.12	16	91

RWO telescopic stick

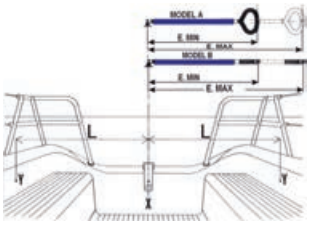
Made of **aluminium**, fitted with **foam** antiskid handgrip and terminal knob, flexible **Epdm** joint; ideal for dinghies and small cabin boats.

Code	Adjsutable length cm
60.542.00	70 - 122

FRIEND tiller extension

Adjustable in length in an easy and precise way. It includes two important functions:
1) it is a sturdy tiller that extends with precision - 2) it is a manual self-steering; it has the same function of the handwheel locking the wheel steering. When locked in its place it holds the tiller in the desired position, it can be easily adjusted by turnig the handle and sliding the tiller up to new position. Leaving the handle, “Friend” will lock it in that position. Coming back to traditional stick steering is easy and intuitive: rise it from its bracket to disengage. Useful when needing to leave the tiller when sailing, or when at mooring/anchor to lock the tiller.

Handle		Extensible mm	Boat L measure
A	B		
-	**60.663.02**	585/821	670/760
60.664.00	**60.663.00**	642/935	760/870
60.664.01	**60.663.01**	750/1043	870/980



◢ E: size of the maximum and minimum extension of the stick.
L: size of the distance from the hook fixing point (Y) to the hinge fixing point on the rudder stick (X).

Tiller extension fitting

Code	Description
60.050.04	Removable joint for **elastomer** stick, suitable for pipe Ø 13 mm **inner** part
60.050.05	Adaptable base for tube size 25/32 mm, **external**
60.050.06	Reduction bushing for pipe Ø mm 17 **inner** side

Flexible tiller extension fitting

Made of **nylon and neoprene**, allows easy removal of the tiller extension if necessary.

Code	For internal pipe Ø mm
60.237.60	16

Tiller extension fitting

60.316.00 Made of **stainless steel**, Italian production.

Grateau tiller extension fitting

60.317.00 Keeps the stick at a horizontal position at all times.

Tiller extension retaining clip

Made of **black nylon**.

Code	For pipe mm
60.234.00	15/16
60.238.40	18/20
60.238.60	22

Trapeze ring

With adjusting block

Code	For sheets up to mm	Length mm
60.514.70	6	180

Trapeze extension

60.514.80 Made of stainless steel.

Trapeze handle

60.205.00 ILV trapeze handle made of **black nylon**. Comfortable and lightweight.

Trapeze handle

60.534.00 With soft anatomically designed inserts.

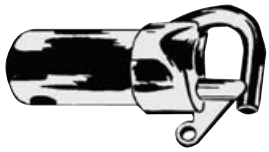
Disk trapeze bundle

Also suitable as line locks (red, grren, blue, yellow, black).

red	green	blue	yellow	black	Ø mm
60.202.01RO	60.202.01VE	60.202.01BL	60.202.01GI	60.202.01NE	52
60.202.02RO	60.202.02VE	60.202.02BL	60.202.02GI	60.202.02NE	65

► Spinnaker ends and brackets

RWO spinnaker pole end, very light



Made of **black nylon and stainless steel**; to be fitted inside aluminium poles.

Code	For pipe inside Ø mm	D Ø mm
60.137.70	25	24
60.137.71	30	29

Spinnaker pole end

Compact and very practical, made of anodized aluminium, black colour.

Code	For pipe Ø mm	D Ø mm
60.043.00	30x1,5	27
60.043.01	40x2	36

Pfeiffer automatic spinnaker pope fittings

Made of **anodized aluminium.**

Code	For pipe Ø mm	D Ø mm
60.765.40	50x2.5	45

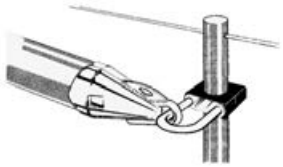
Spinnaker pole fittings

Made of **anodized aluminium**, fitted with **stainless steel** spring piston.

Code	For pipe Ø mm	D Ø mm
60.328.10	50x46	46
60.328.11	65x60	60

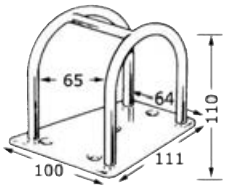
Spinnaker pole U bolt.

60.157.10 Made of stainless steel with stanchion mounting plate Ø size 25 mm.



Spinnaker pole holder

AISI 316 **Made of polished AISI 316 stainless steel, lightweight and very functional.**
To be installed above deck.



Code	For	Caratteristiche
60.615.73	pole head	height bar 110 mm

"Sea Sure" plate for mast fitting

Genuine "Sea Sure" large plate, made of **stainless steel**, suitable for mast or boom fitting with a Ø 100 mm radius.

Code	Plate mm	Round bar Ø size mm	Mounting
60.137.34	63x75	8	6 screws size 5 mm

Flate eye plate

Plate fitted with ring, made of **stainless steel**, fitted with flat base.

Code	Plate mm	Round bar Ø mm	mounting
60.137.33	50x40	6	4 screws size 5 mm

Sea Sure spinnaker pole mast eye

Sea Sure product made of **AISI 316 stainless steel**.

Code	Plate mm	Round bar Ø mm	Mounting
60.137.32	44x50	6	4 screws size 5 mm

Hook on horizontally curved plate

60.137.30 Stainless steel plate to hook joint 60.137.70, Italian production.

Hook on vertically curved plate

60.147.30 Stainless steel plate, Italian product.

Stainless steel plate

Code	Radius mm	ring Ø mm	hole Ø mm
60.530.80	55/60	6	5

Stainless steel plate

Code	Radius mm	Ring Ø mm	hole Ø mm
60.530.90	70	6	5

► Rails, fairleads, return blocks

◢ 61.106.50/60

◢ 61.116.30/40

◢ 61.106.70/80

Track & Sliders

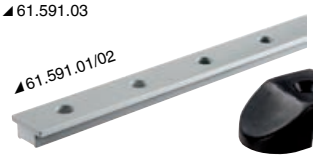
Stainless steel track with stainless steel sliders.

Code	Width mm	Bar m	Cars	End stop
61.106.50	25	1	**61.106.70**	**61.116.30**
61.106.60	28	1	**61.106.80**	**61.116.40**

◢ 61.510.93

◢ 61.510.92 + 61.510.83

◢ 61.591.03



◢ 61.591.01/02

◢ 61.591.01 + 61.591.43

Aluminium track

Code	⟷ mm	Bar size m	Material	Terminals
61.510.92	22x3	2	anodized aluminium	**61.510.83**
61.510.93	22x3	2	thick and hard anodized aluminium + PTFE	**61.510.83**
61.591.01	25x4	2	anodized aluminium	**61.591.43**
61.591.02	32x6	2	aluminium	**-**
61.591.03	25x4	2	anodized aluminium + PTFE	**61.591.43**

◢ 61.510.80

◢ 61.510.90

◢ 61.594.01

◢ 61.592.01

◢ 61.593.01

Genoa cars with plungers

Made of **stainless steel**, fitted with **nylon** pulleys.

Code	For ropes up to mm	Material	For tracks	Version
61.510.80	14	stainless steel	**61.510.92; 61.510.93**	-
61.510.90	14	stainless steel	**61.510.92; 61.510.93**	with eyelet
61.594.01	12	anodized aluminium	**61.591.01**	with spring stop
61.592.01	12	anodized aluminium with block in stainless steel and black nylon	**61.591.01**	40-mm Ø pulley, 20-mm Ø race. With push-button click stop
61.593.01	-	aluminium and stainless steel	**61.591.01**	Plunger stop, car with eye, 25-mm track

◢ 61.230.02

◢ 61.230.03

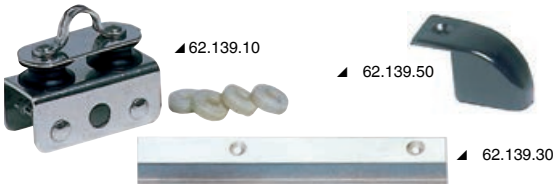
Deck organisers (Delrin sheaves)

Made of anodized aluminium, heavy thickness and PTFE Delrin pulley.

Code	Pulleys	pulley Ø mm	max sheet Ø mm	Hole Ø mm	breaking load kg
61.230.02	2	38	10	6	800
61.230.03	3	38	10	6	900

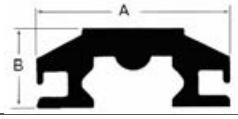
► Travellers for vessels up to 6 metres

Code	Description
62.139.10	Free Way sheet traveller, with four **nylon** rolls, suitable for boats up to 6 m
62.139.30	Rail for travellers 62.139.10 by the metre, 2-m pieces (18x23 mm)
62.139.50	**Plastic** terminal for rail 62.139.30

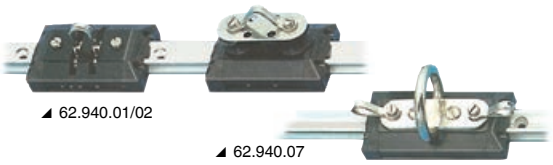


► Ball bearing travellers, suitable for vessels up to 7.5 meters

Anodized aluminium body, Delrin balls, stainless steel reinforcements.

Traveller size	Traveller size	Rail size	
A 51 mm B 20 mm		A 19 mm B 13.4 mm	
Traveller length 83 mm		5-mm bores	

Code	Characteristics
62.940.01	Short traveller with swiveling block. Particularly indicated when the traction is off-axis at least 10/15°. Maximum load 200 kg.
62.940.02	Short traveller with fixed block and return pulley. Maximum load 200 kg.
62.940.07	Traveller for spinnaker pole link.



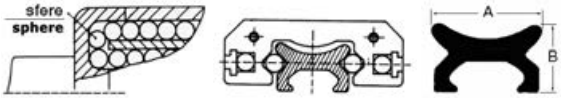
Code	⟷ mm	Bore Ø mm	Bars m	Material
62.940.08	19x13.4	5	2	anodized aluminium
62.940.14	19x13.4	5	2	hard anodized aluminium + PTFE

62.940.09 *Plastic terminal for tracks*

► Ball travellers series with “double turn”, suitable for hulls up to 10.50 meters

Black anodized aluminium, Delrin sphere and stainless steel reinforcements

Rail size
A 25 mm
B 16 mm



Traveller with bridge

Code	Length mm	Width mm	Max working load kg	Suitable for boats up to m	OPTIONAL rail
62.247.00	86	60	270	8	**62.244.50; 62.244.51**

Long traveller

Code	Length mm	Width mm	Max. working load kg	Suitable for boats up to m	OPTIONAL rail
62.244.40	150	60	470	10.5	**62.244.50; 62.244.51**

Stainless steel end stop

Code	Description
62.244.80	Terminal with return block and cam cleat for rail 62.244.50; 62.244.51

Tracks

Code	⟷ mm	Hole Ø mm	Rod m	Material
62.244.50	25x16	5	2	aluminum anodized alloy
62.244.51	25x16	5	2	aluminum hard anodized alloy + PTFE

62.244.60 *Nylon terminal for traveller 62.244.50/51*

► Ball bearing travellers for vessels up to 11.5 metres

Traveller with tilt shackle

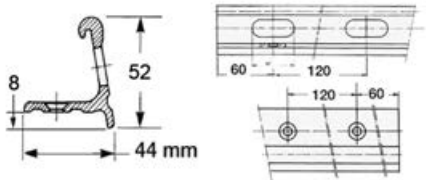
Made ready for return blocks size 10 mm (model 55.072.10).

Code	Length mm	Width mm	Maximum working load kg	Suitable for boats up to
62.248.00	135	83	900	11,50 meters

Aluminium tracks

Code	⟷ mm	Bars m	Terminal OPTIONAL
62.248.50	31x19	2	**62.248.60**

► Toerails and AISI 316 stainless steel accessories made by Osculati



Toerails

Made of natural **anodized aluminium**, fitted with **cover strip** and hooking rail for stanchion base sockets

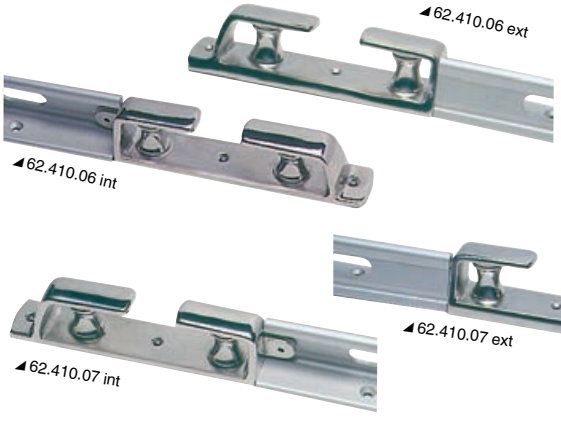
Code	Base mm	Height internal mm	Angle between the two sides	Rods m
62.410.01	44	52	80°	6

Toerail base

AISI 316

Made of AISI 316 stainless steel, mirror polished finish, designed for stanchion sizes 25 mm; for **fitting** on the upper edges of toerails.

Code	Base mm	Height mm	Version	Recommended for
62.410.04	55x73	65	sloped at 7°	**62.410.01**
62.410.05	55x73	65	straight at 90°	**62.410.01**

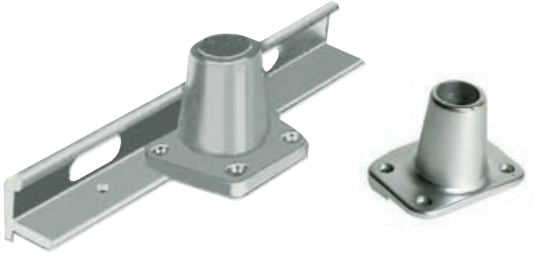


Roller fairlead for Toerail

AISI 316

Made of mirror polished AISI 316 stainless steel.

Code	Version	For ropes mm	Base mm	Height mm	Recommended for
62.410.06	riRightght	up to 26	210x44	52	**62.410.01**
62.410.07	Left	up to 26	210x44	52	**62.410.01**
62.410.09	Central	up to 26	180x44	52	**62.410.01**



Stanchion base for Toerail

Made of **anodized aluminium**, designed for stanchion size 25 mm (like model 41.174.40; 40.173.39/40/41). Integrates with the toerail on installation.

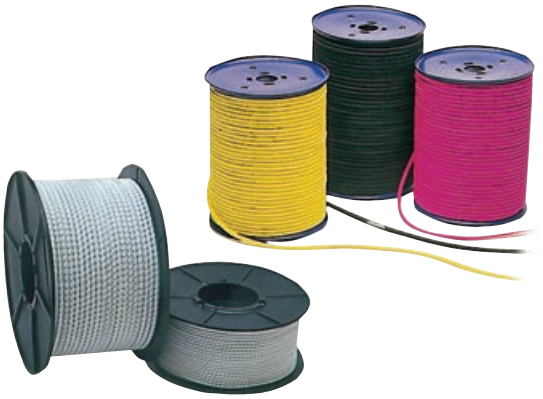
Code	Version	Hole Ø mm	Recommended for
62.403.01	slope 7°	25	62.410.01
62.403.02	straight 90°	25	62.410.01

► Bungees and sail ties

Shock cord reels

Made of **para rubber**, coated with **polyester**.

White	Fluo pink	Black	Ø mm	Roll m
63.173.03	-	-	3	100
63.173.04	-	**63.172.04**	4	100
63.173.05	**63.171.05**	-	5	100
63.173.06	-	**63.172.06**	6	100
63.173.08	-	-	8	100
63.173.10	-	-	10	100
63.173.12	-	-	12	50
63.173.14	-	-	14	50



Bungee hooks

Made of **nylon**, knot fixing.

Code	For elastic band Ø mm	ORDER BY BOX
63.176.04	4	20
63.176.06	6	20
63.176.08	8	20
63.176.10	10	20

Stainless steel ring hooks for shock cord

Suitable for shock cord terminals; the ring fasteners are used to lock the shock cord onto the hook; fastening with a pliers or a clamp.

S.S. Hooks	Clamps and s.s. Ring	For elastic cable Ø mm	ORDER BY BOX
63.185.06	**63.186.06**	6	10
63.185.08	**63.186.08**	8	10
63.185.10	**63.186.10**	10	10

◢63.186.06/08/10

◢63.185.06/08/10

Bungee hook

Size 5 mm, wide hook. Specially suited for fastening dinghy covers to the stringer.

Code	ORDER BY BOX
63.177.00	20

Nylon bungee hooks

Fitted with automatic snap-on mounting for shock cord.

Code	For elastic band	ORDER BY BOX
63.050.80	size 5/6 mm	20
63.080.19	size 8 mm	20

Quick nylon bungee fitting

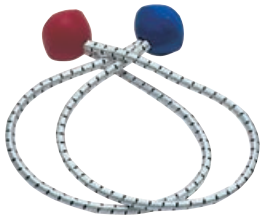
Suitable for locking shock cords sizes of 4/5/6 mm into various lengths; used as sail tie or other purposes; similar to “Clamcleats”.

Code	Version	ORDER BY BOX
63.175.00	4/5/6-mm mounting system only	20
63.175.08	8-mm mounting system only	20
63.737.05	Fitted with 55 cm of 5-mm cable	10
63.737.06	Fitted with 75 cm of 6-mm cable	10

Bungee sail ties with nylon hook

Code	Cable length cm	Cable Ø mm	ORDER BY BOX
63.550.20	20	4	10
63.550.35	35	4	10
63.550.55	55	4	10

Bungee sail tie with plastic ball ends



Code	Length cm	Elastic Ø mm	ORDER BY BOX
63.570.00	30	4	10
63.572.00	40	4	10
63.574.00	50	4	10
63.576.00	60	4	10

Bungee sail tie with nylon toggle

Code	Length cm	Ø mm	ORDER BY BOX
63.530.00	35	6	10
63.532.00	55	6	10
63.538.00	75	6	10

Bungee / hook sail ties in stainless or nylon

Shock cord made of **para rubber**, coated with **nylon**.

Cable with		Size cm	Ø mm	ORDER BY BOX
hook stainles steel	hook nylon			
-	**63.500.00**	20	4	bag size 20
63.502.10	**63.502.00**	30	6	bag size 20
63.508.10	**63.508.00**	50	8	bag size 20
63.514.10	-	80	10	bag size 20
63.516.10	**63.516.00**	100	10	bag size 20

Centipede series sail ties

Fitted with **nylon** toggles and **stainless steel** terminal hooks.

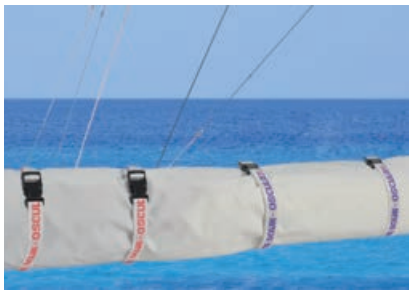
Code	Length cm	Cable Ø mm	For boats m	Arms
63.556.00	200	8	5/7	6
63.558.00	300	8	8/10	6
63.559.00	300	10	11/12	6

OSCULATI

Sail ties

Made of UV-resistant polyester, with adjustable nylon snap buckle. 4-pcs kit.

Code	Kit contains	Width mm
63.568.01	**2 x 180-cm long white/red straps + 2 x 240-cm long white/blue straps**	25



Nylon rope holder

Fitted with snap-on hook, wall mounting with 4 screws.

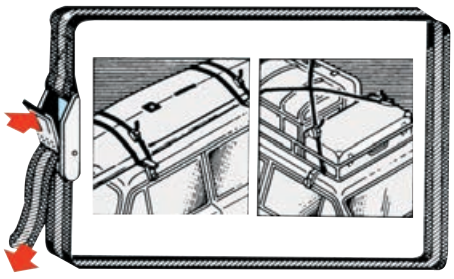
Code	Base mm	Passing mm	Capacity
63.601.00	57x94	60	15 m of rope Ø mm 10

► Fixing straps

Straps made with coloured polyester and fitted with buckle

UV resistant, fitted with quick release **Zama** buckle; suitable for fastening surf boards, dinghies, luggage, etc.

Code	Length cm	Width mm
63.240.25	250	25
63.324.40	400	25



Straps made of coloured polyester, fitted with hooks and ratchet

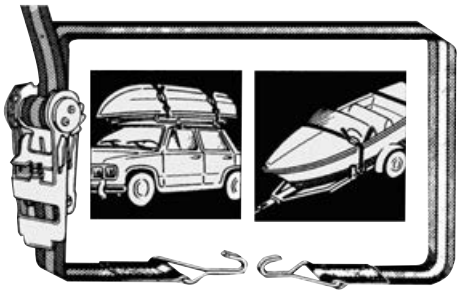
UV resistant, fitted with terminal hooks made of **zinc plated steel and fitted with pawl** intermediate, made of **zinc plated steel** and painted to add a nice look to the straps; suitable for fastening boats to the top of the car or to trailers using bow and stern hooks.

Code	Length cm	Width mm	Breaking load kg	Adjustable cm
63.250.12	200	25	500	60/200
63.250.40	400	25	500	60/400
63.250.60	600	25	500	60/600
63.251.65*	515	38	2000	120/515

* *Especially suitable for heavy hulls or where a greater strap support is required.* ***Oversized*** *pawl and hooks.*

◢ 63.251.65

◢ 63.250.xx



Highly-resistant polyester coloured straps

AISI 304

Suitable for fastening boats on trailers, life rafts, dinghies on the deck or on the platform, etc. The **only ones** in the market with a **ratchet and polished stainless steel mounting hooks**.

OSCULATI

Code	Series mm	Jack and hooks	Length cm	breaking load	adjustable cm
63.252.01	25	**high resistance**	250	900 kg	60/250
63.252.02	25	**high resistance**	400	900 kg	60/400
63.252.03	25	**high resistance**	600	900 kg	60/600
63.253.02*	38	**“Heavy Duty”**	700	1300 kg	120/700

* *Professional*

◢ Stainless steel ratchet and hooks

► Tow ropes for skis

Racing tow rope

OSCULATI

Made of bicolour white/orange floating **levilene**, fitted with **aluminium** handle coated with soft foam, genuine US streamlined terminals and white/red float.

Code	Ø mm	Length m
64.419.00	7.5	21.7

Water skiing racing tow rope

OSCULATI

Made of bicolour floating **levilene**, fitted with soft **black foam** handle, **aluminium** interior and white/red float.

Code	Ø mm	Length m
64.421.00	7.5	21.7

OSCULATI

Tow rope

Fitted with **aluminium** handle, coated with soft black foam.
Compliant with the Ministerial Decree 18/9/86.

Code	Breaking load	Ø mm	Length m
64.421.01	over 500 kg	8	21.7

FREYRIE World Champion

Water ski towing rope

Ski towing rope with neoprene-covered aluminium ergonomic handle and tapered ends.

Code	Ø mm	Length m
64.418.00	8	21

Water-ski tow rope spare handle

Fitted with **aluminium** core and coated with soft **rubber**.

Code	Version
64.427.00	standard
64.427.01	Racing model with tapered terminal

OSCULATI

Tow ropes for high resistant inflatables

For inflatables 64.960.00 etc..

Code	With floating rope			Breaking load kg
	size	bicolor Ø mm	to	
64.161.00	23 m	8	16 terminals	723

Tow rope for inflatables

Made of bicolour **floating levilene**, fitted with end rings and white/red float.

Code	Length m	Ø mm
64.160.00	18	7.5

Ski triangles

Suitable for fastening into to stern cleats; floatable, fitted with rope and pulley. 200-kg max pull.

Code	Version
64.423.00	simple
64.423.10	twin **stainless steel** carbine hooks

Bicolour water-ski floating triangle

◢64.422.00

◢64.422.01

Includes fastening ropes for stern cleat mounting; practical and economical.

Code	Version
64.422.00	with rope
64.422.01	float only 100x63 mm

► Racing water-ski towing ropes

8-mm Ø floating rope, 22.5 metres long; fitted with "Soft" anatomically designed floating handle and aluminium core.

64.428.02 Rope fitted with 8 different color sections for easy shortening

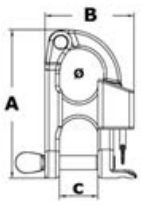
64.428.01 High visibility bi-colour rope.

► Water skiing accessories

Snap-hook for water skiing in compliance with Ri.Na standards (declaration 165/06/DIP dated 18/04/1988)

AISI 316 Made of **AISI 316 stainless steel**; it opens immediately from any direction even when loaded, simply pull the release houseline.

Code	Ø mm	A mm	B mm	C mm	Work load kg	Max load kg
09.525.00	15.8	59.5	37	16.7	175	700
09.525.01	22.3	100	49	20.7	300	1200



FLAG rear-view mirror for water-skiing

in compliance with Ri.Na standard with type-testing declaration No 290/88 dated 18/04/1988. **High-resistance white ABS** housing, vaulted **glass** to provide a perfect view over time. Fitted with **AISI 316 stainless steel** base for mounting onto the control-panel, lacquered aluminium base suited for windshield mounting; rear swivelling ball joint for perfect adjustment. Best rear mirror currently available in the market.

Code	⟷ mm
64.492.00	225x120

Rear-view mirror for Wake Towers

64.497.00 Large mirror (18x36 cm) to see the water-skier perfectly. Aluminium bracket, quick release system with no need of tools, fastening possible on any tube from 41- to 64-mm Ø.

Adjustable water-skiing mirror

Fitted with **nylon** housing, **glass** mirror with adjustable chrome **zama** bracket, suitable for panel boards or for windshield mounting; panoramic sight model.

Code	⟷ mm
64.494.00	100x300

Water-skiing mirror

Made of all mirror polished **chrome zama**; flat surface mounting or windshield mounting.

Code	⟷ mm
64.496.00	82x184

Water-ski tow ring for deck

AISI 316

Made of mirror polished precision-cast stainless steel. M 25x2 female thread. It can be mounted directly onto the deck.

Code	Description
64.552.00	ring

Water-skiing towing ring for stern

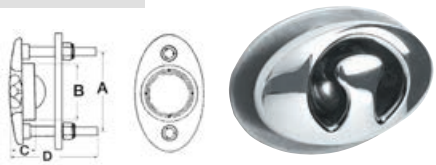
AISI 316

Made of mirror polished **stainless steel**.

Code	Ring Ø mm	Studs mm
64.216.31	60	75x10
64.216.32	83	95x13

Flush mount water-skiing rope hook

AISI 316



Full recessed fitting, made of **mirror polished AISI 316 stainless steel**.

Code	⟷ mm			
	A	B	C	D
64.215.00	75	50	25	85

OSCULATI

Water-skiing towing pole

Made of mirror polished **stainless steel**, fitted with **stainless steel** base; complying with **RINA** standards with certification **11/710/88 DIP dated 6/12/88**.

Code	Length cm	Hose Ø mm	Type
64.551.00*	120	40x2	standard
64.551.01	120	40x3	Heavy Duty

* *Complying with RINA standards with certification 11/710/88 DIP dated 6/12/88*

64.551.90 *Base plate + additional bushing*

► Water skis

DEVOCEAN Allegre water skis

Combo skis also suitable as monoski. Tunnel shaped bottom.
Made of HD polyurethane + vacuum laminated. Fitted with soft foam adjustable fastenings.

Code	Model	Colour	⟷ cm	Suitable for
64.940.11	Allegre	Blue	170 (67")	Adults

JOBE Hemi Combo water skis

Water skis also suitable for beginners. Their shape is suitable for both water skiing and slalom.
Adjustable fastenings fitting from 36 to 47 shoe size.

Code	Colour	⟷	Suitable for
64.940.14	blue	165 cm (65")	Grown-ups

AIRHEAD Monsta Splash Trainer Skis made of wood

For kids, with special stabilization crossbar and handle ropes.
Made of HD polyurethane + vacuum laminated. Fitted with soft foam adjustable fastenings.

Code	⟷ cm	Suitable for
64.940.09	122 (48")	Kids

DEVOCEAN ski rubber spare parts

Code	Description
64.941.00	Adults' front foot holder
64.941.01	Youths' front foot holder
64.941.02	Kids front foot holder
64.941.10	Adults' ankle holder
64.941.11	Youths' ankle holder
64.941.12	Kids' ankle holder
64.941.20	Monoski patella

64.941.00/01/02

64.941.10/11/12

64.941.20

Professional fastening

Code	Description
64.499.03	Spare of mono patella

► Wakeboard

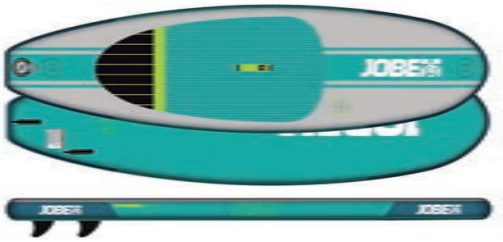
JOBE Logo Series wakeboard

Fiberglass and formica polyurethane foam core. Ultra-light RIM construction.
Intermediate performance level. It comes with Explore bindings.

Code	Length cm	People weight kg
64.942.10	138	50/90

► Sups

JOBE



Stand Up Paddle JOBE Desna 10.0 Package

Anti-skid and anallergic EVA surface for increased stability, the Volta 10.0 is a lightweight yet sturdy and durable SUP board for sportspeople up to 90 kg.
This board is very sturdy without compromising its handiness:
- Drop stitching core consisting of thousands of threads reaching 20-Psi pressure so the board can be inflated to rock-hard rigidity.
- Ultrasound thermowelds.
- PVC with internal reinforcement layer.

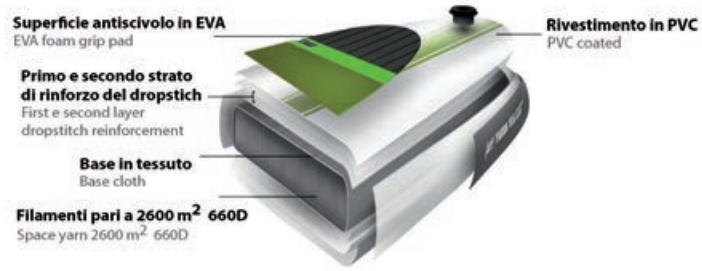
The JOBE SUP board is ideal for the entire family, from beginners to experts.

The package includes:
• 10.0" SUP board.
• Adjustable paddle.
• Ankle leash.
• Manual pump.
• Carrying bag.
• Repair kit.

Code	⟷ cm	Volume l	Pressure Psi	kg
64.943.01	305x81x12	238	20	8

It is recommended to buy an automatic inflator when often using the SUP board.

34.470.12 *Canoe/kayak paddle made of anodized aluminium with ABS blade (it can be disassembled). 200-cm long and 28-mm Ø pole. It can be disassembled in 4 pieces and the blade can rotate by 75°.*



Sup 300

Anti-skid surface for better stability. Ductile and lightweight yet sturdy. It can bear a recommended weight of up to 120 kg.
Heavy duty PVC frame, drop stitching at high resistance (15 psi pressure).
It comes with paddle, manual inflater, carrying bag and repair kit.

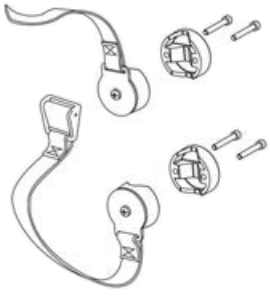
Code	⟷ cm	Volume l	Pressure psi	kg
64.944.01	300x75x12	273	15	8

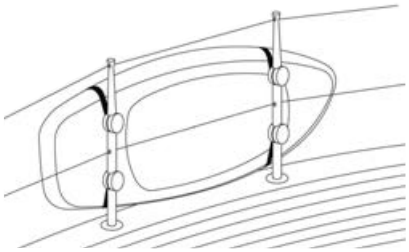
OSCULATI

New **Strap kit for SUP board or gangplank**

Compact yet extremely versatile product.
It is used to fasten the SUP board or the gangplank to the boat stanchions.
The system is fastened to the stanchion tubes by means of four clamps for a diameter ranging from 20 to 28 mm; two 2-m long nylon straps tightly tie the onboard accessories.

Code	⟷ straps mm	For tube Ø mm
42.366.00	2000x30	20/28





SUP board or gangplank holder kit made of stainless steel

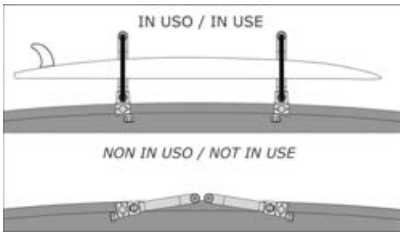
This kit is used to fasten the SUP board or the gangplank out of board.
To be mounted to the railing by means of 360° adjustable stainless steel clamps.
The quick release knob allows for each arm to be rotated immediately when not in use or to be adjusted to a smaller angle in case of narrower SUP boards or gangplanks.
Each arm is fitted with HD foam PVC chafe guards as well as adjustable and removable straps.

Standard version: for 22- to 30-mm diameter tubes fitted with plastic fastening parts.

Delux version: for 20- to 28-mm diameter tubes fitted with AISI316 stainless steel fastening parts.

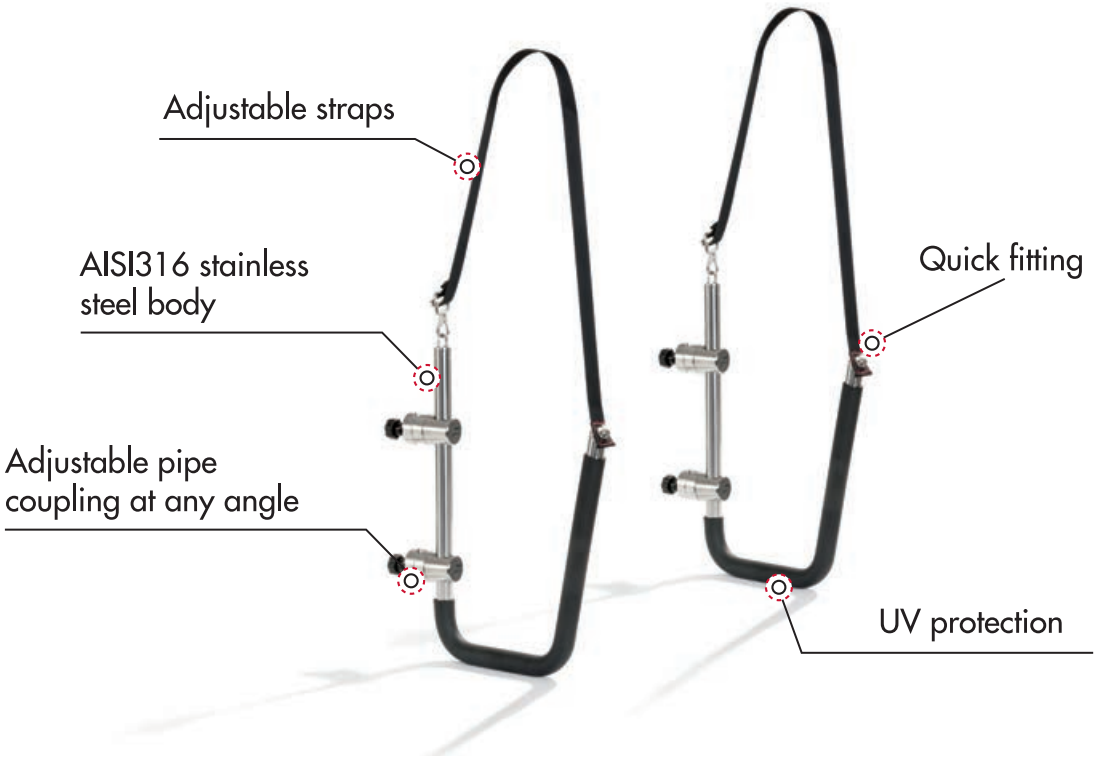
OSCULATI

Code	Version	⟷ dimensions mm	For tube Ø mm
42.365.00	Delux	230 x 115	20/28
42.365.10 New	Standard	230 x 115	20/28



SUP board kit

NEW UNIVERSAL KIT TO FIX THE TABLE OR GANGPLANK OUT OF BOARD



► Towable tubes

AIRHEAD

AIRHEAD Hydro boost

Extremely amusing. 4 soft handles with neoprene knobs. Patented safety valve for fast inflation/deflation. Sturdy double-layer nylon covering. Made of electrowelded PVC + nylon cordura + neoprene protection.

Code	Outer Ø cm	Max weight kg
64.954.03	138	77

AIRHEAD Hot Shot

No central opening, fitted with De Luxe handle. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	External Ø cm	Max weight kg
64.960.00	145	77

AIRHEAD Blast

Extreme fun! 4 knuckle guard handles, made of electro-welded PVC, nylon Cordura and neoprene knuckle guards. Fitted with valve for quick inflating and deflating.

Code	Ø outside cm	Max weight kg
64.954.04	138	77

New AIRHEAD Townut

Fitted with two soft handles with neoprene knobs. Patented safety valve for fast inflation/deflation. Sturdy double-layer nylon covering. Made of electrowelded PVC + nylon cordura + neoprene protection.

Code	Outer Ø cm	Capacity
64.954.05	138	1 person

AIRHEAD Big Shot

Maxi donut, it can tow up to 4 people. Complete with 8 deluxe handles with neoprene coating. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	External Ø cm	Max weight kg
64.954.01	194	309

New AIRHEAD Turbo Blast

Triangular inflatable tube designed for fast rides.
A Kwik-Connect allows for easily attaching your tube to the towing rope.
Four neoprene knuckle guarded handles and a self-draining floor help keep you comfortable and safe as you ride.
Equipped with valve for quick inflation/deflation.

Code	Outside Ø cm	Max weight kg
64.953.01	142	77

AIRHEAD Double Dog HD-2

This product has the capacity to carry up to 2 people but provides the full and the highest water sport experience to single riders. Soft neoprene seat for better grip and comfort.

Code	⟷ cm	No of people	Max weight kg
64.956.02	193x112	1/2	155

AIRHEAD Hot Dog HD-3

Very funny when used in 3 people and very sporty for individual use. The seats are made of neoprene for better grip and control. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	No of people	Max weight kg
64.956.00	260x110	1/3	231

AIRHEAD Jumbo Dog HD-5

Maxi Hot Dog. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	No of people	Max weight kg
64.956.01	375x112	1-5	386

AIRHEAD Turbo Blast

2-seat version of the famous "big donut". Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	No of people	Max weight kg
64.806.02	210x145	2	155

AIRHEAD Griffin II

Ultra sporty version for one or two people. Central neoprene reinforcement and 4 handles to bear every type of tricks. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	No of people	Max weight kg
64.807.02	178x175 (deflated)	1/2	155

AIRHEAD Slice AHSSL-22

Fully encased, designed for 1 or 2 riders. 4 nylon/neoprene handles and anti-slip neoprene upper guard. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	External Ø cm	No of people	Max weight kg
64.806.03	150	1/2	155

New AIRHEAD Viper 1

Inflatable tube perfect for towing adults and children, even younger kids, in a more secure ride.
The boat hull shaped bottom is the key to the unparalleled lively and stable ride.
The durable PVC bladders are completely encased in durable double-stitched nylon and the striped nylon wrap handles have neoprene knuckle guards for comfort.
Fitted with backrest. Equipped with valve for quick inflation/deflation.

Code	⟷ cm	Max weight kg
64.965.03	188x150	77

AIRHEAD Viper 2

2-rider towable for unparalleled lively and stable ride.
Easy to get out of the waves.

Code	⟷ cm	Max weight kg
64.965.04	188x185	155

AIRHEAD Slash II

For 2 people. High rigidity technology. Ideal for carving since it turns better than circular models. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	Max weight kg
64.966.00	147x122 (deflated)	155

AIRHEAD Mach 1

Safe sports line inflatable suitable for kids and adults. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	Max weight kg
64.965.00	172x127 (deflated)	77

SPORTSSTUFF Big Mable

Double rider tube with dual tow points. Comfortable EVA seat. Made of electrowelded PVC + nylon cordura + neoprene protection. Fitted with special quick inflation/deflation valve.

Code	⟷ cm	Max weight kg
64.806.04	175x167	155

► Floats

AIRHEAD

AIRHEAD Emoji Gang Pool Float

Float with comfortable mesh seat and inflatable backrest.
Your drink will be close at hand in the molded drink holder.
Tether it to your boat using the side mounted rope anchors.
Durable vinyl construction with RF welded seams.

Code	⟷ mm	Max weight kg	⟷ Folded mm
64.970.00	122x110	80	27x22x10

AIRHEAD Sun Comfort Cool Suede Zero Gravity Lounges

Comfortable float ideal for tanning, reading or relaxing while enjoying the soft cool suede feel.
Fitted with a convenient drink holder, this float has a molded carry handle that makes it easy to move around. A molded rope holder is great for tethering to docks, buoys and boats. The patented valve allows quick and easy inflating and deflating .

Code	⟷ mm	Max weight kg	⟷ Folded mm
64.970.01	210x120	80	34x12.5x36

► MARES Beach and snorkeling accessories

mares

MARES Aquawalk dive boots

Boots to be used for water activities on rough sea beds and rocks.
TRP sole, lined Micro-mesh/neoprene upper. Comfortable and suitable for any water activity.

Code	Model	Size	Colour
64.331.36	Young & Lady	36	Blue/black
64.331.37	Young & Lady	37	Blue/black
64.331.38	Young & Lady	38	Blue/black
64.331.39	Young & Lady	39	Blue/black
64.331.40	Young & Lady	40	Blue/black
64.331.41	Young & Lady	41	Blue/black
64.331.42	Man & Lady	42	Grey/black
64.331.43	Man & Lady	43	Grey/black
64.331.44	Man & Lady	44	Grey/black
64.331.45	Man & Lady	45	Grey/black
64.331.46	Man & Lady	46	Grey/black

MARES Zephir mask and snorkel set

PVC mask and snorkel set for scuba diving beginners. Available for kids and adults.

Self-draining snorkel: water is drained through the top of the snorkel and through the check valve near the mouthpiece for easier and better emptying of the snorkel tube.

EZ adjust buckles: a buckle system for fast and easy adjustment of the mask.

Mask:
- Siliter skirt.
- EZ adjust buckles on skirt.
- Durable construction.
- Wide viewing angle.

Snorkel:
- Curved ergonomic structure.
- Integrated snorkel keeper.
- Siliter mouthpiece.

Code	Model	Colour
64.323.01	Combo Zephir Junior	Reflex Yellow/Clear
64.323.02	Combo Zephir Adult	Reflex Blue/Clear

◢ 64.323.01

◢ 64.323.02

Mares silicone mask, Vento model

Silicone mask for perfect adaptability and tempered glass lens for scuba diving . Available for kids and adults.
Wide viewing angle: wide peripheral viewing field.

EZ adjust buckles: a buckle system for fast and easy adjustment of the mask.

Mask:
- Siliter skirt.
- EZ adjust buckles on skirt.
- Wide viewing angle.

Snorkel:
- Curved ergonomic structure.
- Integrated snorkel keeper.
- Drain valve.
- Siliter mouthpiece.

Code	Model	Colour
64.326.01	Vento mask, junior	Blue White/Clear
64.326.02	Vento mask, adult	Black

◢ 64.326.01

◢ 64.326.02

MARES Polinesia swimming goggles

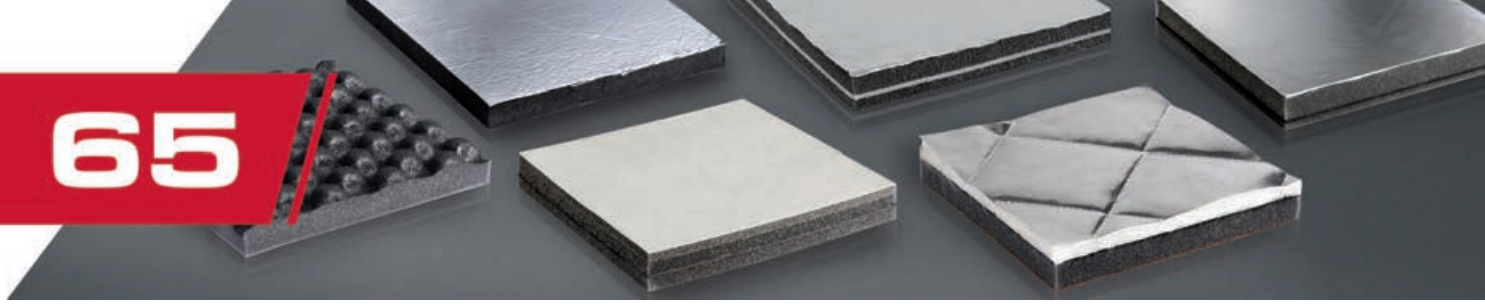
64.320.00 Professional antifog swimming goggles, ideal for swimming in the sea or at the swimming pool.

MARES Fluida fins

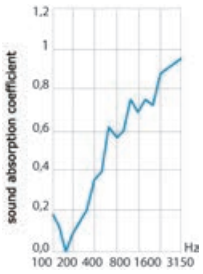
Full foot fin for both swimming and underwater activities.

OPB-Optimized Pivoting Blade.
The blade always keeps an optimized angle unlike traditional fins that only keep it for a short while. The OPB generates a constant thrust reducing effort to the minimum and allowing for a smooth movement in the water.
Durable construction and comfortable foot pocket.

P01	Size	Colour
64.350.36	36-37	Reflex Blue
64.350.38	38-39	Reflex Blue
64.350.40	40-41	Reflex Blue
64.350.42	42-43	Reflex Blue
64.350.44	44-45	Reflex Blue
64.350.46	46-47	Reflex Blue



► Sound-deadening, sound-insulating and thermal-insulating materials R.I.Na certified in compliance with ISO 4589-3

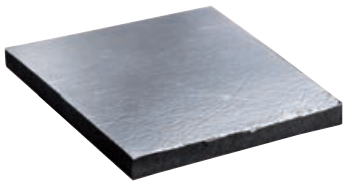


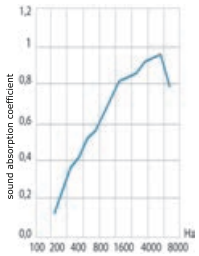
Polyurethane foam sound-deadening panels

Film-coated version that doesn't absorb water. UL94 HF1 flame-retardant.

Code	Panels	Thickness	Density m^3	kg	Sound absorption A*	Sound insulation B*	Resistance to temperature*
65.099.00	100x200 cm	20/35 mm	30 kg	0.85 kg/m^2	2	1	1

* *Evaluation scale 1 to 8.*



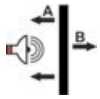


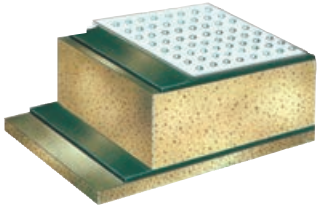
Sound-deadening ISO 4589-3 polyurethane panels

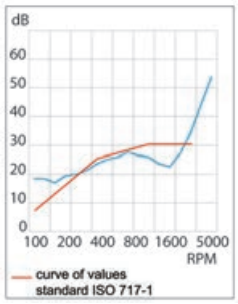
Aluminised polyurethane panel. 25-mm thick 70/90 kg/m^3 polyurethane, adhesive film.
Type-tested in compliance with ISO 4589-3 defining the oxygen index by means of a high temperature test.
R.I.N.A. certified for soundproofing of engine rooms in pleasure boats up to 24 m.

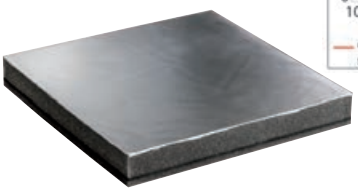
Code	Panels	Thickness	Density m^3	kg	Sound absorption A*	Sound insulation B*	Oxigen index
65.091.00	100x150 cm	25 mm	70/90 kg	2.4 kg/m^2	4	3	>21

* *Evaluation scale 1 to 8.*







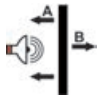


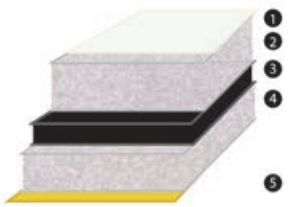
Sound-deadening and sound-insulating ISO 4589-3 fiberglass panels

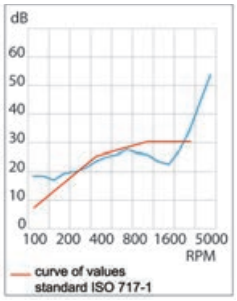
1) 430 g/m^3 aluminised fiberglass fabric.
2) 15-mm thick 30 kg/m^3 polyurethane.
3) 2-mm thick EPDM mass (4 kg/m^2).
4) 10-mm thick 30 kg/m^3 polyurethane.
5) Adhesive.
Type-tested in compliance with ISO 4589-3 defining the oxygen index by means of a high temperature test.
R.I.N.A. certified for soundproofing of engine rooms in pleasure boats up to 24 m.

Code	Panels	Thickness	kg	Sound absorption A*	Sound insulation B*	Origen index
65.100.00	100x150 cm	28 mm	5.26 kg/m^2	6	5	> 21
65.100.75	100x75 cm	28 mm	5.26 kg/m^2	6	5	> 21

* *Evaluation scale 1 to 8.*





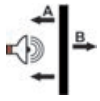


Sound-deadening and sound-insulating panels with perforated synthetic leather

1) White perforated synthetic leather.
2) 15-mm thick 30 kg/m^3 polyurethane.
3) 2-mm thick EPDM mass (4 kg/m^2)
4) 10-mm thick 30 kg/m^3 polyurethane.
5) Adhesive.
Fire class UL94HF1.

Code	Panels	Thickness	kg	Sound absorption A*	Sound insulation B*	Resistance to temperature*
65.100.40	100x150 cm	28 mm	4.5 kg/m^2	6	5	5

* *Evaluation scale 1 to 8.*

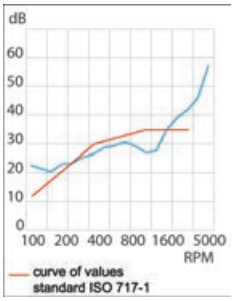


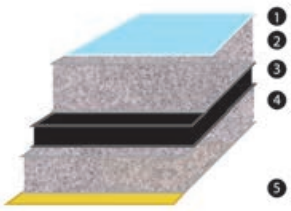
Sound-deadening and sound-insulating fiberglass panels

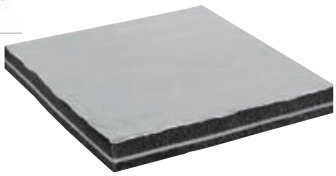
1) 400 g/m^3 aluminized fiberglass fabric.
2) 15-mm thick 70/90 kg/m^3 polyurethane.
3) 2.5-mm thick EPDM mass (4.9 kg/m^2)
4) 10-mm thick 70/90 kg/m^3 polyurethane.
5) Adhesive.
Type-tested in compliance with ISO 4589-3 defining the oxygen index by means of a high temperature test.
R.I.N.A. certified for soundproofing of engine rooms in pleasure boats up to 24 m.

Code	Panels	Thickness	kg	Sound absorption A*	Sound insulation B*	Oxigen index
65.101.00	100x150 cm	25 mm	8.28 kg/m^2	7	7	> 21

* *Evaluation scale 1 to 8.*





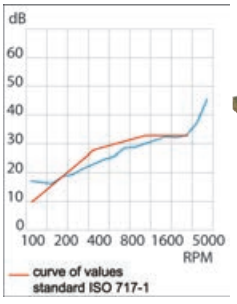


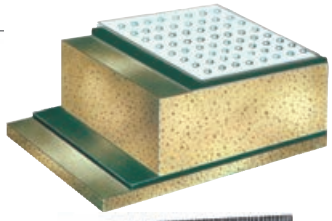
Thin sound-insulating ISO 4589-3 panels

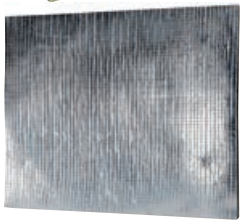
1) Thermal-reflecting net aluminium.
2) 3-mm thick (5.3 kg/m^2) EPDM mass.
3) 10-mm thick (70/90 kg/m^3) polyurethane.
4) Adhesive film.
Type-tested in compliance with ISO 4589-3 defining the oxygen index by means of a high temperature test.
R.I.N.A. certified for soundproofing of engine rooms in pleasure boats up to 24 m.

Code	Panels	Thickness	kg	Sound absorption A*	Sound insulation B*	Oxigen index	ORDER BY BOX
65.100.05	100x75 cm	13 mm	5.44 kg/m^2	5	6	> 21	4 panels

* *Evaluation scale 1 to 8.*





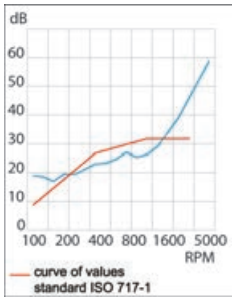


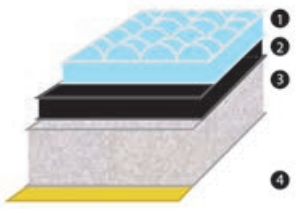
Sound-deadening, sound-insulating and heat-resistant ISO 4589-3 fiberglass panels

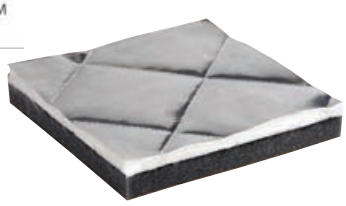
1) 8-mm thick quilted fiberglass.
2) 2-mm thick EPDM mass (4 kg/m^2).
3) 20-mm thick 30 kg/m2 polyurethane.
4) Adhesive.
Use tape 65.095.00 as finishing.
Type-tested in compliance with ISO 4589-3 defining the oxygen index by means of a high temperature test.
R.I.N.A. certified for soundproofing of engine rooms in pleasure boats up to 24 m.

Code	Panels	Thickness	kg	Sound absorption A*	Sound insulation B*	Oxigen index	Finishing tape OPTIONAL
65.094.00	100x150 cm	30 mm	6.38 kg/m^2	6	6	> 21	**65.095.00**

* *Evaluation scale 1 to 8.*



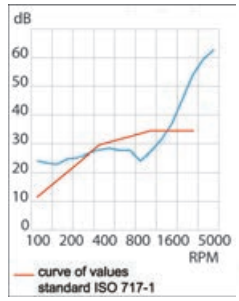


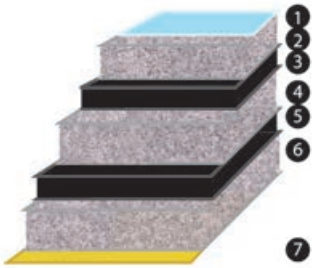


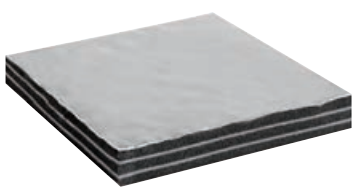
Sound-deadening and sound-insulating ISO 4589-3 fiberglass panels

1) 430 g/m^3 aluminised fiberglass fabric.
2) 10-mm thick 70/90 kg/m^3 polyurethane.
3) 2-mm thick EPDM mass (4 kg/m^2).
4) 10-mm thick 70/90 kg/m^3 polyurethane.
5) 2-mm thick EPDM mass (4 kg/m^2).
6) 10-mm thick 70/90 kg/m^3 polyurethane.
7) Adhesive.
The double separate mass ensures optimum soundproofing. For optimum sound insulation in cabins adjoining engine rooms.
Type-tested in compliance with ISO 4589-3 defining the oxygen index by means of a high temperature test.
R.I.N.A. certified for soundproofing of engine rooms in pleasure boats up to 24 m.

Code	Panels	Thickness	kg	Sound absorption A	Sound insulation B	Oxigen index
65.097.01	100x150 cm	35 mm	12.66 kg/m^2	7	8	> 21







Sound-deadening quilt, heat-insulation up to 700°

Reaction to fire DIN 4102. **Pleated glass fibre felt** mattress type "E". It is paired, through diamond quilting], into two glass textils of 400 g, one of wich in aluminum.
Stylish design, it is resistant to elevated mechanical strain. Particularly indicated as thermo acoustic isolator.

Code	Thickness	Roll
65.093.00	10 mm	1 m x10 m

It perfectly fits the walls of engine rooms, it can be glued or fixed with washers 65.098.00. Price by the roll.

65.098.00 *OPTIONAL washers*

VETROTEX fibreglass mat

Sound-deadening, noise-insulating, fitted with aluminized fibreglass on the external side. Used as **anti-heat** covering on exhaust pipes, heat exchangers and on any piping needing to be insulated. Price by the single roll.

Code	Fireproof	Thickness mm	Roll
65.096.00	class 1	10	20 x 500 cm

Adhesive aluminium tape roll

Designed to finish sound-deadening noise-insulating panels 65.094.00 after they are modelled and mounted

Code	Roll m	Height mm
65.095.00	50	50

CIBA marine glue

Made with phenolic resins, dark red colour, fitted with powder catalyst. It's the most powerful glue in the world, used to glue wood, resin, polyester, metals, etc.

Code	Package	Type-approval
65.225.11	500 g	RINA

Self-extinguishing glue for sound-insulating/sound-deadening panels

Sound-insulating glue that optimizes the performance of the panels it is applied to.

Code	Packaging	Homologated	Yield gr/mq
65.100.02	0.750 l	Ri.N.A.	350/400

Plastic toothed washers

OSCULATI

For fixing sound-deadening panels onto ceilings or bulkheads. Screws not included.

Code	Ø mm	Hole mm	Package
65.098.00	50	3	250 pcs.
65.098.40	50	3	40 pcs (blister)

ADEBOND professional cianoacrylic bonding

It sticks immediately metal, plastic, rubber, wood, leather, artificial leather, etc... Dispenser package.

Code	9
65.236.21	50

► Lubricants and DURALAC

DURALAC

Insulating/sealant plastic helps prevent electrolytic corrosion on jointing points between two different metals such as: aluminium fixed onto stainless steel screws, aluminium windlasses or brass fixed with stainless steel bolts, stainless steel accessories for mast fixed onto the mast itself (made of aluminium) with rivets or screws, cleats secured with different metal studs. Duralac is a yellow plastic based with barium chromate, flexible and resistant, to be fitted in between two metals that are jointed together; application with brush; do not dilute

Code	Package ml
65.750.00	250

WD-40 multipurpose lubricant

WD-40 is a multipurpose product that protects metal from oxidation and corrosion. It penetrates and lubricates jammed parts and prevents any surface from humidity damage. It also removes stains of grease, tar and glue from any non-porous surface.

Code	Format	Package	PACKAGE
65.280.01	Spray + straw	200 ml	36
65.280.02	Spray + straw	400 ml	12
65.280.12	2-in-1 professional spray	500 ml	6
65.280.13	Flexible 2-in-1 professional spray	600 ml	6
65.280.20	Tank + 1-l spray	5 l	-

65.280.13

65.280.20

65.280.01 65.280.02 65.280.12 65.280.13 65.280.13

CRC 6-66

the famous "American" product that provides protection against rusting, it removes humidity and is resistant to water

Code	Type	Quantity
65.283.10	Spray	200 ml
65.283.13	Spray	400 ml
65.283.12	Box	5 l

65.283.13 65.283.12 65.283.10

CRC corrosion inhibitor

is a wax-like sealant covering protection product that **can be removed easily**, is used to fight humidity and corrosion. Suitable for hulls that are put into garages or that are not under operation; essential product used to protect all fittings, rubbing strakes, instruments, etc.

Code	Spray can
65.283.30	250 ml

CRC marine protective cleaner

Long-lasting anti-corrosion protective cleaner. It protects ferrous and non ferrous alloys for over 2 years. It penetrates deeply and repels humidity by creating a thin fluid and stable film not needing to be removed in case of assembly or starting. It can be removed by means of CRC 6-66, which also has a protective effect, or with detergents.

Code	Spray can ml
65.283.33	250

Teflub marine CRC

PTFE **dry** lubricant. Self-gripping, water-repellent, anti-sticking, anti-friction. Non soluble, it doesn't stain or drip. It adheres to wood, plastic, metal, rubber. It creates a very thin invisible film featuring a minimum friction coefficient.

Code	Spray can ml
65.283.29	500

CRC Marine Silicone

Waterproofing, electrically insulating, it protects materials and rubber, inert unalterable lubricant.

Code	Spray can ml
65.283.35	250

CRC - White Lithium lithium water-repellent white grease

ideal for lubricating and protecting windlasses, rigging screws, hinges, bearings, shaft lines, cables, remote control terminals and any other moving parts that in addition to lubrication also need protection; **resistant to high temperature**

Code	Spray can ml
65.283.31	250

CRC - Electronic Cleaner

Cleansing agent suitable for electronic equipment; removes agents that may alter electric circuits

Code	Spray can ml
65.283.42	250

► GENERAL OIL - BERGOLINE marine lubricants

2 stroke sea F1 GENERAL OIL

V 2% oil mixture for 2-stroke engines with specifications **high performance** NMMA-TC 3W; can be used directly on the tan or with pre-mixers; suitable for super petrol and unleaded petrol.

Code	Package l
65.081.00	1
65.081.01	5

GENERAL OIL Marine Speed 4-stroke-10W40

Lubricant for 4-stroke inboard and outboard engines. **Synthetic** based with specific additives for **heavy-duty** applications..

Code	Package l
65.082.00	1

Marine Hydraulic Oil

Product recommended for **steering systems, power trims, outboard lift power and sterndrive units, hydraulic flaps and hydraulic gangways.** Additive-improved formula to boost the pump and the seal performance. Resistant to high pressure and corrosion. It contains anti-foam additives and its properties last in time.

Code	Package
65.083.00	1 l

ATF Red Oil

High thermal-oxidation stability lubricant for **hydraulic inverters**. The use of additives to enhance stability preserves the lubricant from deteriorating and extend the oil change intervals. Recommended for marine inverters and hydraulic steering gears.

Code	Package
65.083.01	1 l

BERGOLINE - GENERAL OIL Sintetix Diesel Marine 10W40

Semi-synthetic oil featuring elevated performance on turbo diesel and aspired marine engines. It complies with standards API CL-4/CF, ACEA E7-04/E5/E3, MB 228.3 MAN 3275, VOLVO VDS-3.

Code	Package l
65.084.01	5

BERGOLINE - GENERAL OIL Prestige Diesel Marine 15W40

Multigrade oil featuring excellent performance on turbo diesel and aspired marine engines. It complies with standards AP CL-4/CF, ACEA E7-04/E5/A3/B4, MB 228.3, MAN 3275, VOLVO VDS-3.

Code	Package l
65.085.01	5

BERGOLINE - GENERAL OIL Hypo Marine SAE 80W90 Bio Type

Biodegradable synthetic oil for transmissions, for lubrication of outboard engine legs, stem drive units and SAIL DRIVE. It complies with API GL-5, MIL-L-2105D standards.

Code	Package l
65.086.00	1

BERGOLINE - GENERAL OIL Hypo Marine Sae 80W90

Oil for transmissions, for lubrication of outboard engine legs, stem drive units and sail drive.
It complies with API GL-5, MIL-L-2105D standards.

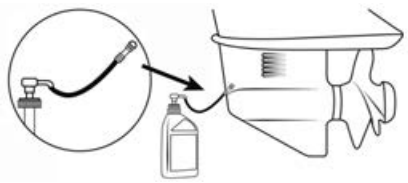
Code	Package l
65.087.00	1

Lower unit gear oil pump

2020 CONNECTORS

To top up/fill the lower unit gear or sterndrive unit or Sail Drive with oil tapping it from a standard 1/5-l drum.
The kit includes:
- Pump to put into the drum fitted with adapter for the drum thread (USA and Europe).
- 3 fittings to fill any 2/4-stroke outboard engine and Volvo SX, Mercruiser, OMC, OMC Cobra sterndrive units,

Code	Description
65.116.20	Oil filling pump



► Additives for engines

FASTOL BLUE

Fuel additive performing the following functions:
1) It **emulsifies and disperses** condensate or infiltrated **water** that is formed in all fuel tanks.
2) It dissolves **fungus, tar and paraffin deposits of diesel fuel**, making it more uniform and clean.
3) Its neutral formula, diluted with petrol by-products, makes **Fastol a hydrocarbon** perfectly compatible with fuel so much so that the fuel excise regime is applicable to this product. Fastol **can be used in elevated quantities** without over-dosage to cause any side effect in case of decontamination and cleaning of very polluted or dirty tanks.
4) It **reduces consumption by over 5%,** because having a high surfactant power, Fastol allows a very fine atomization of the fuel that mixes better with air (O2) and is then totally combusted.
5) It eliminates black fumes due to its improved combustion.

For dosage, refer to the indications on the package and to the tech specs. Apply to the manufacturer's after-sale service in case of very damaged hulls.

It is **recommended for the winter storage** because it avoids the condensation and deposits formation in the tanks and piping so the boat will be ready to be et in motion after the winter rest.

◄65.050.01; 65.051.01

◄65.051.01

◄65.050.02

Code	Description	Package
65.050.01	Fastol Blue diesel TRZ	100 ml
65.051.01	Fastol Blue petrol	100 ml
65.050.02	Fastol Blue diesel TRZ	1 l
65.051.02	Fastol Blue petrol	1 l

ECO BACT fuel biocide

Bacterial diesel fuel pollution is a very complex problem and increasingly more widespread. With respect to standard substances (parafin, carbonaceous residues, asphaltene and tar) that are eliminated with Fastol, **bacterial sludge** is soluble only in acids. Very little water is enough to develop basteria. Bacterial sludge (biomass) clogs filters with a thick brownish black sludge and their growth triggers off corrosion on tanks. Eco-Bact is a highly efficient biocide, soluble in both water and diesel, that concentrates in the aqueous phase of the diesel fuel where contamination occurs. Eco-Bact **decontaminates** polluted fuel and can be used **periodically** to prevent contamination.

Code	Package	Tretment	
		continuous	periodical
65.049.01	1 kg	250 grams per 1000 litres every refuelling	1000 grams every 1000 litres in consideration of tank volume

► Oil absorbing products

OSCULATI

Absorbent cloths for oil and fuel

Water-repellent absorbent cloths for oil and fuel. No drips, fast absorption.
White colour, rip- and wear-resistant, they remain compact even when fully saturated.

Code	Package	Absorption capacity per package
65.210.41	2 x 38x46-mm 170-g/m^2 cloths	1.46 l

New **Oleophilic sponge to absorb hydrocarbons and their derivates**

In case of oil-polluted water (in the bilge, in the engine room, etc.), this sponge rapidly absorbs the oil without soaking with water. This prevents dumping the bilge content into the sea and consequently reduces the quantity of waste produced when using traditional cloths and/ore disposable absorbing cloths. To be used during routine operations when oil leaks into the water are frequent. With this innovative product both pleasure boaters and professional sailors will recover the smallest leak and will contribute to water and environment protection. This sponge absorbs 30 times its weight of hydrocarbon without absorbing water.
Made of a patented type of highly hydrophobic polyurethane foam, this sponge can be used over and over up to 200 times.

Code	Description	Content	Ideal for
65.215.01	Ocean Cleaning Kit	2 x 25x10-cm 2.5-cm H absorbing sponges; 1 x 35x25-cm 1-cm H absorbing sponge; 3 x zipped poaches; 2 x pairs of nitrile gloves; 1 x nylon bag.	Pleasure boaters who wish to keep onboard an all-inclusive easy-to-use kit
65.215.02	OCK Spugne ricambio	2 x 25x10-cm 2.5-cm H absorbing sponges; 1 x 35x25-cm 1-cm H absorbing sponge	New or supplementing kit. Sold in a display package that can be hung
65.215.03	OCK Officine	12 x 25x10-cm 2.5-cm H absorbing sponges	Professional sailors, berthing facilities or large boats

► LIQUI MOLY MARINE lubricants

LIQUI MOLY

65.930.01

65.930.60/99

Marine 4T Motor Oil 10W-30

4T **10W-30** **100% SYNTHETIC**

High-performance 100% synthetic engine oil with special Marine additives for better protection against corrosion. It exceeds the standards set by the major manufacturers of engines. Recommended for inboard and outboard engines, powered by both petrol and diesel, and fitted with catalysts and/or turbo. Certified NMMA FC-W® for engines Evinrude, Honda, Johnson, Mercury, Suzuki, Tohatsu and Yamaha. Type-testing: API SL; NMMA FC-W®.

Code	Package	PACKAGE
65.930.01	1 l	6
65.930.60	60 l (to be ordered)	-
65.930.99	205 l (to be ordered)	-

65.931.01/05

65.931.60/99

Marine 4T Motor Oil 10W-40

4T **10W-40** **100% SYNTHETIC**

API SL/CI-4 l Volvo VDS-3 l Caterpillar ECF-1-a/ECF-2 l Cummins CES 20071/CES 20072/CES 20076/CES 20077/CES 20078 l Deutz DQC III-10 l Man M 3275-1 l MTU Typ 2.

Code	Package	PACKAGE
65.931.01	1 l	6
65.931.05	5 l	4
65.931.60	60 l (to be ordered)	-
65.931.99	205 l (to be ordered)	-

65.932.01

65.932.60/99

Marine 4T Motor Oil 15W-40

4T

High-performance 100% synthetic engine oil with special Marine additives for better protection against corrosion. It meets the standards set by the major manufacturers of engines. Recommended for inboard and outboard engines, powered by both petrol and diesel, and fitted with catalysts and/or turbo.
Type-testing: ACEA A3/B4/E7; API SL/CI-4; Volvo VDS-3; Caterpillar ECF-1-a/ECF-2; Cummins CES 20076/CES 20077/CES 20078; Deutz DQC III-10; Man M 3275-1; MTU Typ 2.

Code	Package	PACKAGE
65.932.01	1 l	6
65.932.60	60 l (to be ordered)	-
65.932.99	205 l (to be ordered)	-

Marine stern drive oil GL4/GL5 80W-90

High-performance oil for stern drives. Designed for marine applications, it offers excellent protection against corrosion and aging. Recommended for outboard, inboard and IO engines. Type-testing: API GL4/5; API MT-1.

Code	Package	PACKAGE
65.940.01	1 l	6

► LIQUI MOLY MARINE additives

LIQUI MOLY additives have been developed to prevent any problem caused by salty and humid environment.
Add a little dose of this product to the fuel for the desired result (see the indications on the package, "more is better" is not valid). LIQUI MOLY offer a wide range of products for diesel and petrol engines for fuel deterioration and corrosion prevention as well as performance improvement, better cleaning of the fuel system and engine constant performance over time. See the table below to pick up the additive whose property better suit your requirements.

Additives	Biocide	Increase of cetane number	Cleaning	Anti-corrosion protection	Anti-aging protection	Performance	For continuous use
Marine Diesel Protection	xx	xx	xxx	xxx	xxx	xx	xxx
Marine Super Diesel Additiv	-	xxx	xx	xx	-	xxx	xxx
Marine Batteri Stop for gasoil	xxx	-	-	-	-	-	xxx
Marine Stabilizer for petrol	-	-	-	xxx	xxx	-	xxx
Marine Cleaner for petrol powering systems	-	-	xxx	xx	-	xx	xxx

Marine Diesel Protection

DIESEL PROTECTIVE ANTIBACTERIAL

Broad spectrum antibacterial additive recommended for wintering. Wear- and corrosion-resistant and protective for the engine system, it prevents moulds and seaweeds in the tank. The increased cetane number makes starting after long periods (i.e. wintering) easier. Little doses can be used as a preventive measure while an impact dose is effective in contaminated tanks. See the label on the product for the best dose matching your needs.

Code	Package	PACKAGE
65.920.05	500 ml	6

Marine Super Diesel

DIESEL CLEANING ANTICORROSIVE

Detergent and protective additive and cetane improver recommended to get the best performance from your engine. The cetane improving and detergent properties boost combustion for better engine operation. It keeps injectors clean and prevents encrustations. This product is suitable for any diesel engine included injector-pump and Common-Rail systems, and can be used with any diesel and bio-diesel fuel. See the label on the product for the suitable dose.

Code	Package	PACKAGE
65.921.10	1000 ml	6

Marine petrol stabiliser

FUEL

It prevents the degradation and oxidation of fuel. Recommended before wintering. Suitable for 2S and 4S engines. See label on the product for correct dose.

Code	Package	PACKAGE
65.923.05	500 ml	6

Marine cleaner for petrol feeding systems

FUEL CLEANING PROTECTIVE

Very effective detergent and protecting additive recommended to keep the engine internal gears clean and efficient. For 2S and 4S engines. It removes oxide from intake and exhaust valves, it keeps the spark plugs clean and prevent carbon deposits for excellent running of the engine. See label on the product for correct dose.

Code	Package	PACKAGE
65.924.05	500 ml	6

► SIKAFLEX® products

Polymer sealant SIKAFLEX 591

This sealant uses the STP-Silane Terminated Polymers technology.
It is suitable for elastic vibration-resistant gluing and for a wide range of indoor and outdoor sealing applications.
Isocyanate, solvent, PVC, phthalate and tin catalyst free product.

Code	Package	Colour	PACKAGE
65.288.01	300-ml cartridge	White	12
65.288.02	300-ml cartridge	Black	12
65.288.03	300-ml cartridge	Grey	12

◢ 65.289.38/39

◢ 65.289.07/08

◢ 65.289.06

SIKAFLEX 291i polyurethane sealant for indoor purposes

For watertight elastic seals. Uses: sealing of windlasses, cleats, sea cocks, keels, bulbs, etc.
RINA type-approved.

Code	Package	Colour	PACKAGE
65.289.38	70-ml self-extruding tube	White	24
65.289.39	70-ml self-extruding tube	Black	24
65.289.08	300-ml cartridge	White	12
65.289.07	300-ml cartridge	Black	12
65.289.06	600-ml bag	White	20

◢ 65.289.05

◢ 65.289.04

SIKAFLEX 292 adhesive to be knifed out

Designed for high strength flexible bonding; used for gluing between the hull and decks, for sealing keels, handrails, bulkheads (sandwich panels).
Type-approved by RINA

Code	Package	Color	PACKAGE
65.289.05	310-ml cartridge	white	12
65.289.04	600-ml bag	white	20

SIKAFLEX 290 DC PRO polyurethane sealant

UV resistant, ideal for sealing **deck seams**, external porthole and window seals. Sandable, it doesn't curl like silicone. Excellent also for wood, fibreglass, metals, etc. **Yield**, a cartridge is enough on seams size 6x6 mm - 8.9 metres.

Code	Version	Color	Tensile strength	PACKAGE
65.289.49	300-ml cartridge	Black	1.2 N/mm²	12
65.289.50	600-ml bag	Black	1.2 N/mm²	20

SIKAFLEX 298 FC polyurethane adhesive

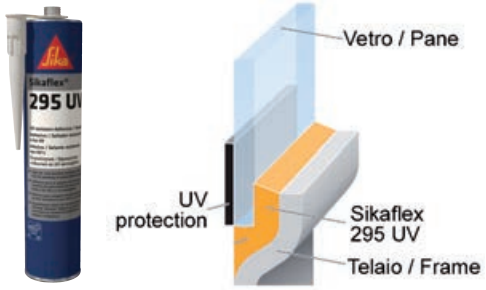
Used for sealing decks made of teak, marine plywood, iroko on fiberglass, steel or wood; also for sealing indoor floors (wood, marble, laminated).
It requires about 1 kg per m2 for adhesive thickness of 3 mm.

Code	Package	Color	PACKAGE
65.289.20	600-ml bag	Black	20
65.289.21	10-litres = 12-kg container	Black	-

SIKAFLEX 295 UV sealing adhesive

UV-resistant polyurethane sealing adhesive.
For sealing plexiglas, lexan, polycarbonate.

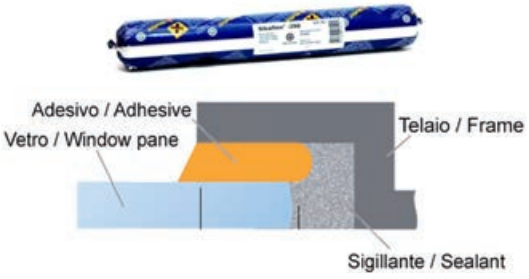
Code	Version	Color	PACKAGE
65.289.14	300-ml cartridge	Black	12
65.289.16	600-ml bag	Black	20
65.289.28	300-ml cartridge	White	12



SIKAFLEX 296 sealing adhesive

Polyurethane adhesive for high mechanical strength glass panes. RINA type-tested.

Code	Bag	PACKAGE
65.289.15	600 ml	20



SIKAFLEX - 515 isocyanate-free sealer for indoor/outdoor uses

No need of primers. It's a silane-terminated solvent-free hybrid polymer free from solvents. Excellent sealing properties, it glues metals, ABS, fibreglass and wood very well.

Code	Package	Colour	PACKAGE
65.289.30	300-ml cartridge	White	12

SIKASIL SG-20 silicone adhesive

High-performance silicone adhesive for glueing glass panes.

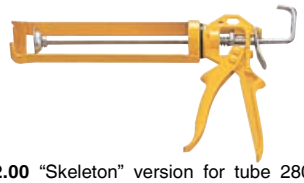
Code	Package	Colour	PACKAGE
65.289.60	300-ml cartridge	Black	25

Sika primer

Code	Type	Surface	Package	Yield	Combined use with	PACKAGE
65.289.23	290 DC	Seams and oily woods such as teak or iroko	30 cc	7 m^2/l	65.289.49; 65.289.50 (seams) 65.289.20; 65.289.21 (woods)	24
65.289.11	290 DC	Seams and oily woods such as teak or iroko	250 cc	7 m^2/l	65.289.49; 65.289.50 (seams) 65.289.20; 65.289.21 (woods)	6
65.289.24	290 DC	Seams and oily woods such as teak or iroko	1 l	7 m^2/l	65.289.49; 65.289.50 (seams) 65.289.20; 65.289.21 (woods)	4
65.289.25	290 D	Plexiglass	250 cc	7 m^2/l	65.289.14; 65.289.16; 65.289.28	6
65.289.26	206 G+P	Plastic materials (also fiberglass) and glazing	250 ml	7 m^2/l	65.289.15	6
65.289.27	206 G+P	Plastic materials (also fiberglass) and glazing	1000 ml	7 m^2/l	65.289.15	4
65.289.31	Multiprimer	Universal for all sealants and surfaces	250 ml	7 m^2/l	-	6
65.289.65	Activator-100	-	250 ml	5 m^2/l	65.289.60	6

► Extrusion guns

65.290.00 Gun for tube 280/310 ml



65.292.00 "Skeleton" version for tube 280/310 ml **alloy** handle.

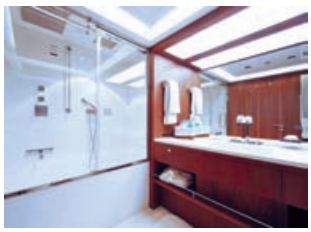
65.293.00 Closed "Rotapy" model for 600-ml plastic bags and 280/310-ml cartridges.

Professional compressed air gun

65.294.00 For all 280/310-mm cartridges and 600-ml bags

► Sealants and adhesives

3M



AKFIX silicone

High performance neutral silicone. Very good sealant on several surfaces. Non-corrosive and odourless curing.
APPLICATION AREAS: general indoor and outdoor sealing.
PROPERTIES: 100% silicon, solvent-free, anti-mould, excellent adhesion properties on porous and non-porous substrates, non-corrosive on most nautical materials, resistant to -60° to +180° temperatures, high elasticity.

Code	Package	Color	PACKAGE
65.417.01	310-ml plastic cartridge	black	24
65.417.02	310-ml plastic cartridge	white	24
65.417.03	310-ml plastic cartridge	- transparent	24
65.417.83	50-ml aluminium tube	- transparent	-

3M 5200FC Marine Sealant adhesive

Single-component polyurethane sealing adhesive device for permanent glueing; resistant to salt water and atmospheric agents; can be painted after harderning; can be
modelled with a brush or spatula within 4 hours after the application; ideal for sealing and bonding: fibreglass decks, hulls, teak decks and hulls, transom engines, portholes and deck asscessories.

Code	Package	Color
65.352.00	296-ml cartridge	white

3M 4200FC Marine Sealing adhesive

Multipurpose single-component polyurethane sealing adhesive, polymerizes with humidity making flexible gluing with good adhesion on wood, fibreglass, gealcoats, plastic and metals. Can be painted or sandable; resistant to atmospheric agents and salt water, ideal for sealing deck accessories and joints over or under the waterline.

Code	Package	Colour
65.342.00	310-ml cartridge	White

Power Line 540 polyurethane sealant

High-performance polyurethane sealant, 540 is a one-component moisture curing sealing adhesive ideal for sealing when mechanical fastening is involved.

Code	Package	Colour
65.343.12	310-ml cartridge	White

3M 3200 Marine sealing silicone

Silicone sealant, polymerizes with humidity, helps prevent mould formation, resistant to atmospheric agents; ideal for flexible sealing, adheres onto fibreglass, metal, glass, non-oily wood and plastic; its neutral base makes it suitable for fixing glass (does not ruin silver-plating).

Code	Package	Colour
65.309.80	280-ml cartridge	White
65.309.81	280-ml cartridge	Black
65.309.82	280-ml cartridge	- Clear

3M Spray 77

65.309.94 Universal adhesive with spray with adjustable band (in width); **can be re-positioned** if applied on both sides. Compatible with rubber, metal, carpet, expanded foam, carton, felt, fabric, wood and any other type of basic material. 500-ml packing.

3M Spray 90

65.309.93 Synthetic adhesive spray device for gluing polyurethane foam, rubber surfaces, joints made of rubber, plastic, metal, fibreglass and wood. 500-ml packing.

► YACHTICON cleaning and maintenance products.

YACHTICON Power Boat Cleaner and Wax - protective and polishing cleaner

65.200.82 It rapidly **cleans, polishes and protects** vast surfaces spreading **a single layer**.
It removes black streaks, heavy dirt, diesel exhaust grease, skin fitting leaks, etc. and leaves an invisible film on which dirt cannot grip. It protects fiberglass for a long time. **1-l bottle**.

YACHTICON 3 in 1 Dry-Wash cleaning polishing protecting spray

65.200.83 This foam cleans, polishes and protects fiberglass in a single operation.
It **doesn't** contain water, silicone or abrasive agents.
Environmentally safe as nothing is poured into the water. **500-ml bottle.**

YACHTICON Clean Board detergent

65.730.00 Made by the famous "Aqua Clean", product 52.193.00; provides a throughout cleaning, suitable for: fibreglass, neoprene and PVC fabric on pneumatic boats, soft PVC fenders that are usually impossible to clean; rather it removes any type of stain, without scratching, leaving a polished (but not slippery). It does not pollute, can also be used with salt water. 500 ml.

YACHTICON Bio Boat Wash

65.729.00 High concentration cleaning agent for washing boats, including teak wood; 98% biodegradable product, no phosphates no formaldehyde. Cleans thoroughly, low cost, high concentration thus requires little application for washing; can also be used with **salt water**. 500 ml.

Super Cleaner for fibreglass and ABS surfaces

65.200.80 Removes **tough** stains, such as diesel discharges, fuel streaks , rust lines etc; does not contain phosphate and solvent free. 500 ml.

YACHTICON Deck Super Cleaner

65.211.82 Aggressive product to remove grease stains from shoes and any dirt from anti-skid fibreglass decks which naturally tend to attract dirt. Does not ruin teak or plastic surfaces of any type; no brushing required, powder concentrated product. 770 g.

Gelcoat Cleaner

65.211.70 Detergent for Gelcoat, GRP, painted surfaces. It is effective even on rust and oil stains. Concentrated powder.
750g container.

YACHTICON Foam free boat cleaner

65.726.00 This detergent removes all kinds of dirt, oil and grease on the deck, sides and hull, and it doesn't produce foam. 1 litre.

YACHTICON Wash and Wax detergent and polisher

65.102.40 Biodegradable product to wash and polish boats at the same time thanks to the carnauba wax mixture; suitable for fibreglass, painted surfaces and metals. 500-ml package.

YACHTICON Teflon Polish

65.724.00 It is a polish based with teflon that ensures a long lasting **protection over time**, and a **shining and water-repellent** surface. If used on hulls, making them particularly **smooth**. Ideal product for race boats. 500 ml.

Teflon Polish Spray

65.724.01 Cleans, shines and seals in a single operation. The surface repels water for an extended period following application, preventing salt deposits and protecting metal from rust. 400 ml.

YACHTICON Anti-Gilb Gelcoat stain remover

65.722.00 Suitable for removing **yellowing stains from white gelcoats** that form around water line drains. 500 ml.

YACHTICON Hard Wax protection wax

65.246.90 Heavy protective wax **with Teflon**, protects fibreglass, ABS and painted surfaces, lasts longer than most conventional waxes; easy to use, repels water, salt and rusting in general. 500 ml.

YACHTICON Boot Pflege care

65.117.71 Cares and protects all kind of PVC, rubber, Hypalon and similar material should be used after every use of the boat and before winter storage. Extends lifetime and protects against UV-damage. Coats the material with a long lasting protection film against weather, chalking and fading. 500 ml

YACHTICON Fender Flesh protecting product

65.102.50 Cleans and protects any rubber or PVC material with just one operation (fenders, fender profiles, rubber joints, gaskets, etc.); does not dissolve rubber or PVC. 500 ml.

YACHTICON Sail and Canvas cleaner

65.102.70 Cleans and restores the original brightness of sails, boat awnings, canopies, etc; traditional formula, **does not ruin** synthetic or natural fabrics; extra concentrated formula. 500 ml.

YACHTICON Wonder Bilger cleaner

65.102.60 Bilge cleaner, removes oil, sludge, grease, etc; elements carried in suspension in bilge water, discharged with pumps; **removes bad odours**. 500 ml.

YACHTICON Rubbing compound

65.273.40 medium aggressive rubbing compound to remove, encrustations, oxidation and abrasion lines **without leaving marks on fibreglass**; at the same time restores the original color of fibreglass, protects surfaces with a bright water-repellent film; does not contain silicone. 500 ml.

YACHTICON Vinyl Shampoo

65.211.87 Removes stains, grease, dirt, fingerprints from faux-leather cushions and from PVC surfaces, rubber, including waterproofs. 500 ml.

Spray cleaner for teak

65.717.00 It cleans teak from oil, grease, tanning cream, glue, etc. Also suitable for carpets. 200-ml package.

Gelcoat Color restorer

65.214.21 This product carries out a chemical action by penetrating into the gealcoat pores and restoring its original colour. No need for polishing. Weatherproof action. 250-ml metal can.

YACHTICON Blue Wax

65.214.22 Special wax for blue surfaces. It penetrates into the paint or gelcoat pores thus recovering the original blue colour. It protects against UV rays and prevents clear rings that appear on fibreglass because of the combined action of salt and UV rays. 500-ml package.

YACHTICON Inflatable Boat cleaner

65.117.70 Suitable for **inflatable dinghies and RIBS**, cleans, deoxidizes, protects over time and restores the color of rubber tubes, PVC, Hypalon. Provides protection against UV rays, removes incrustations on the water level line. 500 ml.

YACHTICON Metal Polish

65.247.00 Deoxidizes, polishes and provides protection with just one wipe, suitable for stainless steel, brass, chromed brass; long lasting protection, water skids away, gives a restored look to old surfaces. 500 ml.

YACHTICON Under-Water Wax cleaner

65.212.40 Cleaner formulated for hulls **without** antifouling paint that remain underwater for brief periods of time; cleans throughout and helps prevent the formation of algae for up to 3 weeks; suitable for any type of material. 500 ml.

YACHTICON Adesive + Silicone Remover

65.211.79 Special solvent product device to remove wax, polish, silicone, grease, oil and other agents from the surface; ideal as a preparation before paining or before making any restoring treatment on fibreglass with wax. 500 ml.

YACHTICON teak cleaner and brightener

65.800.01 This product combines these two main functions; restores the original brightness to old wood and cleans throughout, easy to use, apply and rinse. 770g.

YACHTICON Teak Oil

Oil, soaks in to provide a long lasting protection, restores wood to its natural condition protecting it against UV rays, quick drying.

Code	Model	Employment	Package
65.800.04	CLASSIC	It gives wood a warm golden color and hides the signs of time	500 ml
65.800.05	CLEAR	Very clear, it leaves intact the color of wood	500 ml

YACHTICON Teak Super Cleaner

65.720.00 It perfectly removes dirt, oil, grease, tar, etc. from your teak and restores it to its original luster. 500-ml bottle
]

YACHTICON Hull-Cleaner

65.721.00 Particularly strong cleaner, it removes barnacles and all traces of algae, rust and yellowing. **1000-ml bottle.**

YACHTICON Quick universal cleaner

65.210.29 universal cleaner for any type of surface (fibreglass, PVC seats, glass, interiors, etc); 90% biodegradable product, it removes **black streaks** on fibreglass. 500 ml.

YACHTICON Algen seaweed remover

65.213.60 Removes seaweed and algae from hulls, stern drives, propellers, etc.. **500 ml.**

YACHTICON low-viscosity teak/wood cleaner and brightener

65.800.08

65.800.09

Code	Description	Package
65.800.08	**Holz Ol 1**: Low-viscosity primer that penetrates deep into the wood fibres and ensures long-term weather-resistance.	1 l
65.800.09	**Holz Ol 2**: Protective, high-adhesion and very bright clear sealant to apply after **Holz Ol 1**.	1 l

YACHTICON Black Streak Remover

65.118.80 It easily removes black streaks caused by rain and air pollution. Spray application.
Delicate on fiberglass, gelcoat, etc.
500-ml package.

YACHTICON Water Line Cleaner

65.117.80 It easily removes seaweeds and yellowish streaks from the floating line. It also removes rust spots and calcareous encrustations. 500-ml package.

YACHTICON Teppich mould remover

65.282.20 removes fungus, stains and traces of mould from cushions, carpets and rugs. 500 ml.

YACHTICON Acrylic Care brightener

65.211.80 Reconditions and restores the natural transparency and brightness of acrylic materials (plexiglass) and polycarbonate; ideal for polishing windscreens, portholes, hatches, entrance doors, etc; formulated with anti-static agent. 500 ml.

YACHTICON Acrylic Scratch Remover

65.211.81 Removes fine scratches from acrylic, polycarbonate, and most other type plastic surfaces cleans off stains, salt deposits and surface discolourations easy to use just rub scratches at a right angle and buff off removes hazing from windshields, hatches, ports, etc. 250 ml.

YACHTICON rust and stain solvent

65.103.10 It easily removes heavy rust stains from gelcoats, metal or paints without the need to scrub. 500 ml.

YACHTICON Remove Gel

65.103.11 Specific gel to remove rust from whatever surface. Also suitable for vertical surfaces. **500-ml bottle.**

YACHTICON stain remover for mould and rust

65.103.00 For spraying fibreglass, vinylic resin and other surfaces, removes rust leaks and stains, disinfects toilets and other areas wherein hygiene is very important; the product shall be sprayed onto a surface, left to penetrate and then rinsed. 500 ml.

YACHTICON insect repellent spray

65.282.30 Sprayed on the boat surfaces or on bimini tops, the natural substances contained in this product keep insects away for long periods of time.
500-ml package.

YACHTICON sealant

65.103.20 Used for stitchings, to waterproof stitches on boat awnings, canopies and clothes; ready for use, long lasting. 100 ml

YACHTICON Fabric Waterproof spray

65.102.80 Cleans, restores and make waterproof surfaces for sail decks, canopies, boat awnings, etc; does not alter the colour, suitable for synthetic and natural fabrics. 400 ml.

YACHTICON fabric cleaning and waterproofing agent

65.102.81 It cleans and waterproofs biminis, awnings, tents and make the fabric breathable. For cotton and synthetic fabric. On this latter, it prevents electrostatic charges. 1-l package.

YACHTICON winch spray grease

65.170.00 lubricates and protects gears; reduces friction and abrasion; resistant to salt water and temperatures of -30° + 130°. Bottle filled with ecological gas. 200 ml.

YACHTICON Multi-Purpose Grease

65.211.83 Multipurpose grease, lubricates, protects and preserves the condition of travellers, slides, joints, couplings, cursors, etc. Seals and penetrate forming a waterproofing film; resistant to temperature of -20° + 80°; prevents seizures and is not removed from water; maintains viscosity and consistency in any condition. 250 ml.

YACHTICON Multipurpose Winch Grease

65.211.84 Lubricates, preserves and protects; penetrates surfaces forming a protective film, resists temperature of -30° + 130°. Resistant to salt water, corrosion and bad weather; maintains its viscosity and consistency under any condition. Ideal for winch gearing, remote control cables, travellers, sheets, pulleys, hinges, sliding door guides, gas hand grips, etc. 250g.

YACHTICON teflon-based lubricant

65.211.85 highly effective lubricant for all kind of materials heavy-duty formula lubricates anything that squeaks no silicone, no CFC's premounted spray-tube for precise spraying long lasting protects against wear and corrosion. 300 ml.

YACHTICON Marine Wax (carnauba wax)

65.273.50 High quality carnauba wax mixed with artificial wax; **non** abrasive, protects gealcoats and painted surfaces; contains UV ray inhibitors. 300 ml.

YACHTICON special cleaning and polishing cloths for boats, 100% viscose

Soft and delicate. Ideal to be used with polish and wax.

Code	g	Package
65.272.00	200	25 sheets

YACHTICON Cleaning Cloth Dispenser

Super absorbing cloths for boat cleaning. Wet- and tear-proof, solvent-resistant.

Code	⟷ cm	Package
65.272.01	38x24	200 cloths

YACHTICON Anti Barnacle protective grease

Special grease used to prevent encrustations and algae formation on propellers, propeller's shafts, stern drives, transducers, sea-cocks, etc; anti-corrosive inhibitors, can be applied on all surfaces, biodegradable product.

Code	Package
65.282.60	500 ml

Repellent wax YACHTICON Nano Wax Sealer

NANO HIGH-TECH

Nanotechnology repellent wax. Simply sprayed on a damp surface it leaves a bright film that protects from dirt and UV rays.

Code	Package
65.273.51	500 ml

YACHTICON Water Resistant 2-component epoxy resin

For repairs below the waterline. It repairs osmotic damage, keel/hull splintering and holes in the fiberglass.
Temperature range: 10-35 °C.

Code	Package
65.211.32	450 g

► Epoxy resins and professional accessories

Epoxy resins for rolling and osmosis treatment

SX8 low-viscosity epoxy system for manual and vacuum rolling, and drawing. Ideal to improve wettability of wood fibres, glass, carbon and aramid fibers. Once hardened, it features excellent mechanical and stretching characteristics. Medium and fast hardening version with possibility to absorb cellulose microfibers and glass microsphere to obtain plaster, fillers and curved parts. Weigh the components and mix them or buy a controlled-tapping pump.

Code	Resin kg	Hardener kg	Kind of hardener	Workability 20°	Hardening 20°	Viscosity	Stretching	To be used on
65.531.01	1	0.3	rapid	9 - 14 min	2 - 4 h	250 - 350 mPas	5-7%	glass- wood - carbon
65.531.02	1	0.3	medium	40 - 50 min	6 - 8 h	200 - 300 mPas	6-8%	glass- wood - carbon
65.531.05	5	1.5	medium	40 - 50 min	6 - 8 h	200 - 300 mPas	6-8%	glass- wood - carbon

Lamination fabrics

High-yield glass fabric for manual and/or vacuum lamination. Easy to use, good draping qualities.

Code	Weight gsm	Weaving	Height m	Length m	Resin absorption gsm	Notes
65.532.16	160	twill	1	3	190	very draping
65.532.29	290	twill	1	3	310	very draping

Glass hollow microspheres for lamination

Very fine glass hollow microspheres. To increase the volume of protections but with a limited weight increase, and to fill major surface defects. When added to other additives, it improves spreadability and the grain of fillers thus obtained. Compatible with any kind of resin.

Code	ORDER BY BOX
65.533.01	0.5 litre can

Cellulose microfibres for lamination

Cellulose microfibres are a natural material made of wood dust. They are used to increase thickness of the resin improving resistance and adhesion. Mixed to other additives such as the microspheres they generate a range of different fillers depending on the requirements.

Code	ORDER BY BOX
65.533.02	0.5 litre can

Flex rolling knife

The set includes 3 Flex synthetic knives, very flexible and ideal to spread any kind of material on curved and uneven surface. Solvent-resistant and lightweigth, these knives don't scratch the surfaces they come into contact with.

Code	ORDER BY BOX
65.533.05	No. 3 pcs. a bag

Sticks for lamination

Package of 2x15-cm sticks for bicomponent mixing, made of birch wood. The enable to mix easily all bicomponent products such as resins, paints or gelcoats. Birch wood doesn't release impurities or color inside the mix thus avoiding to compromise its final technical and qualitative characteristics.

Code	ORDER BY BOX
65.533.06	50 pcs. a bag

► Products for small repairs and maintenance

OSCULATI

White gel coat

Single-component gel coat. To be knifed out as a regular filler for a bright white finish that restores the original surface of the chipped or splintered gel coat. It can be coated.

Code	Package
65.520.05	100 g

White GELCOAT

"4 in 1" high-resistance bicomponent white GELCOAT. To be used like a regular filler to be knifed out: the final result is a bright white finish restoring the original chipped, scratched or dented gelcoat surface. It can be coated.

Code	Package
65.520.06	200 g

Two-component polyester filler

Two-component polyester filler, matt and to be knifed out, blended with fiberglass for higher resistance and flexibility.
Suitable to restore missing and damaged parts.

Code	Package
65.520.02	200 g

Two-component epoxy filler

Two-component epoxy filler to be knifed out. Excellent to restore broken or missing parts.
Good compromise between stiffness and flexibility.
Hand or machine processing after 4/5 hours.

Code	Package
65.520.04	800 ml (400 ml + 400 ml)

Filler for bicomponent wood

Specific for application on wood, already colored paste compound, highly resistant, washable by hand or washing machine after 4/5 hours from application.

Code	Colour	Package
65.520.12	Light-coloured wood RAL 1014	150 ml (250 g)
65.520.13	Medium-coloured wood RAL 8003	150 ml (250 g)
65.520.14	Dark-coloured wood RAL 8028	150 ml (250 g)

MINIKIT for fiberglass repairs

It includes: polyester resin, catalyst accelerator, 120x20-cm fiberglass cloth, blending container.

Code	Package
65.520.08	200 g

VETROKIT

65.520.09 Fiberglass repairs. It includes: polyester resin (800 g), catalyst accelerator, fiberglass fabric (64x47 cm), mixing container, brush, gloves.

Epoxy resin kit for fiberglass repairs

65.520.10 For fiberglass repairs. Made of **epoxy** resin + catalyst, 500+250 g, mixing container, sandpaper, gloves, 50x50-cm glass fibre cloth, brush and broad knife.
Promotional gift: 38x34-cm beach bag + block notes.
Also recommended for gluing wood and for osmosis treatment.

Two-component epoxy resin

Multipurpose epoxy resin recommended for:
1 - Repairs of damaged fiberglass using mats or glass-fibre fabric.
2 - Glueing of **wood, fiberglass, metal**.
3 - Wood protection and repair.
4 - Osmosis pre-/restoring treatment.

Code	Package
65.520.16	0.750 (0.500 kg of resin + 0.250 kg of hardener)

Fiberglass super kit

65.520.07 Designed for major repairs.
The kit includes:
- 2 x 1-kg bottles of polyester resin.
- 2 x 50-g bottles of resin catalyst.
- 1 x 1-kg cloth of fiberglass (about 2sq. m.).
- 1 x 0.5-kg gelcoat filler.
- 1 x glass to mix resin.
- 2 x knives.
- 1 x brush.
- 60 grit sandpaper (0.5 m).
- 1 x 250-g Superpolish
- set of sandpaper (80 - 120 - 240 - 400 g).
- 1 x instruction folder.

GRIP-PRO water-based anti-slip coating kit

Ready-to-use water-based liquid anti-slip coating. Easy to apply with a brush or a knife and then finished with the roller it comes with.
No need to add water or other additives.
It can be applied on fiberglass, wood, aluminium and steel for an effective anti-slip action, UV-ray protection and weather resistance.
Type of finish and grip:
- Little quantity of product and light pressure of the roller: **light roughness**.
- More quantity of product and heavier pressure of the roller: **heavy roughness**.
Two layers are recommended (wait at least 24-hour curing after the first coat).

Code	Colour	Package
65.950.00	White	1 kg + 8-cm roller

White Gelcoat by Yachticon

One Pack Nitrosynthetic Gelcoat . Ideal for small repairs to fibreglass / wood / gelcoat / metail. Fast repairs, with no need to paint. Cures quickly and if necessary can be sanded and painted. 70 g.

Code	Package
65.211.35	70 g

Yachticon

► Maintenance and cleaning products

OSCULATI

Products produced under Osculati specifications, to be easy to use and environment friendly.

Boat shampoo

Concentrated low-foam shampoo for boats. To be used to clean all outer parts, windows and hatches included. It also works with salt water.

Code	Bottle
65.752.00	1 l

Teak One cleaner and stain remover

It cleans and removes stains from teak surfaces. Suitable for deep cleaning of teak, it removes oil, grease, tar and food stains.

Code	Package	PACKAGE
65.742.00	1 l	6
65.742.01	5 l	-

65.742.00

65.742.01

Teak Two color conditioner

This product conditions the color of teak surfaces. Special product to be used after Teak One to condition the natural color of teak. WARNING: **it does not contain dyes**, it is a chemical agent that restores the natural color of wood. To be used together with Teak One as it **interacts** with it.

Code	Package	PACKAGE
65.743.00	1 l	6
65.743.01	5 l	-

65.743.00

65.743.01

New Sunteak reconditioner

Special cleaner used to recondition deck teak surfaces; removes stains and restores the original natural colour; to be diluted with water.

Code	Package
65.239.00	1 l

◀65.744.00

◀65.744.01

Teak Three protective paint

Protective and nourishing for teak surfaces, colourless and UV resistant features for wood. It does not damage seams. Completely natural and silicone-free, it lets the wood breath, nourishing it and at the same time slowing dirt penetration. It can also be used on teak surfaces treated with other brand agents.

Code	Package	PACKAGE
65.744.00	1 l	6
65.744.01	2.5 l	4

Teak hydro color

Wax-based sealant, fast curing (1 hour). Pigmented product with no teak-damaging diluents. It protects from sun and weather. It assures a longlasting natural color of teak, restoring its original finish. VOC (Volatile Organic Compounds)-free, odourless and environmentally-friendly product.

Code	Package	PACKAGE
65.747.00	1 l	6

Inox Cleaner - cleaner for stainless steel

It easily cleans stainless steel even though it contains no harmful substance. It removes rust stains that oxidate stainless steel surfaces.

Code	Package	PACKAGE
65.250.00	500 ml	10

Stainless steel cleaner spray

It deeply cleans stainless steel, aluminium, chromed brass, laminated plastic. Antioxidant agent that leaves no streaks or marks.

Code	Package
65.264.00	400 ml

Rust Free product

It removes rust stains from fiberglass surfaces, spray bottle.

Code	Package	PACKAGE
65.748.00	750 ml	12

Acrylic cleaner - Detergent for acrylic panes (polycarbonate, plexiglass, etc.)

Designed **not to leave marks** on acrylic materials as standard detergents do. It can also be used on regular or laminated glass panels.

Code	Package	PACKAGE
65.748.55	750 ml	6

Fabric Waterproof universal waterproofer for natural and synthetic fabric

It cleans, regenerates and waterproofs verandas, blinds, bimini tops, shading covers and other fabric items. Water-repellent, anti-deterioration, anti-mould and activating action for natural and synthetic fabric.

Code	Package
65.102.85	750 ml

Special For Boat multipurpose heavy-duty detergent

Low-foaminess strong detergent. It cleans extremely well without scratching the surfaces (fiberglass, rubber fabrics, PVC fenders, stainless steel, light alloys). Biodegradable product.

Code	Package	€ PACKAGE
65.748.50	750 ml	6

POLI-TEAK

special **stain remover spray** for teak decks; spray stains and wait for the solvent to evaporate, then brush and rinse the white residue on the teak and the deck will be **completely clean**.

Code	Package
65.256.00	200 ml

New Color Life reviving solution for faded paint

Reviving solution for any type of fiberglass surface and **faded paint**. It penetrates into the micro porosity of the gelcoat or paint **without leaving** any visible traces, restores the surface to its **original coloring and gives a shiny finish**. Long lasting reviving treatment.

Code	Package	€ PACKAGE
65.746.00	500 ml	10

Ultra White fast stain remover for yellowed gelcoat

Specific product to remove GELCOAT yellowish stains. Biodegradable product.

Code	Package	€ PACKAGE
65.748.60	500 ml	10

Bilge Sentidek cleaner

Cleaner for bilge, it removes mud, slime and oil-polluted water for a long time. Highly emulsifying product used for quick bilge cleaning.

Code	Package
65.249.00	1 l
65.249.01	5 l

◀65.249.00

◀65.249.01

Extra-strong mould remover

It effectively removes mould from wood, synthetic fabric sails, synthetic leather upholstery.
Do not use on fabric.

Code	Package
65.755.00	500 ml

Rubber Slide Sealant

Special product to restore and protect PVC dinghies, hypalons and similar. It reconditions neoprene on dinghies and helps prevent and cleans incrustations. It increases the lifespan of dinghies. Supplied with a **spraying** gun.

Code	Package	€ PACKAGE
66.458.80	0.75 l	6

Rubber Life sealing and restoring liquid

Liquid repair paint which **seals and restores** neoprene or PVC fabric on dinghies, creating a highly resistant clear plastic film. In the presence of small holes, Rubber Life may be applied to the external part of the hole. In case of cuts Rubber Life is applied on the inner part of the cut with a syringe as tyre repair products.

Code	Package	PACKAGE
66.459.00	500 ml	10

65.749.01

65.749.02

65.749.03

Maintenance cycle for desalinators

The cycle uses **3 specific products**.
Phase 1 and Phase 2 have to be combined when a drop in performance occurs - usually when diaphragms are incrustated - or once a year.
Phase 3 is recommended when the desalinator is not going to be used for a long time. It prevents deposits and stains. Not to be used for energy recovery systems (such as SCHENKER, SPECTRA).
The 1-l package is needed for the treatment of any desalinator, no matter the boat. Phase products have a 20-minute cycle time.

Code	Description	Package	PACKAGE
65.749.01	"PHASE 1": for diaphragm washing	1 l	6
65.749.02	"PHASE 2": for diaphragm scraping	1 l	6
65.749.03	"PHASE 3": diaphragms preserving product	1 l	6

Silicone lubricant spray

Silicone lubricating oil, water-resistant, protective action for metal/plastic/rubber (it prevents cracking) and electrical insulation.

Code	Package
65.260.00	400 ml

White grease spray

Protective and water-resistant white lubricating grease. For mechanical parts that need both protection and lubrication. Resistant to high temperature (it contains lithium) and salty water.

Code	Package
65.261.00	400 ml

Corrosion block / Lubricant spray

It penetrates into the metal parts and lubricate then while preventing corrosion and protecting the parts over a long time. It repels moisture, loosen parts and prevent short circuits.

Code	Package
65.263.00	200 ml

PTFE lubricant spray

Dry synthetic PTFE lubricant. Non conductive, it doesn't leave marks or stains. Ideal for hinges, joints, blocks, travellers and any part needing lubrication. Resistant to salty and fresh water.

Code	Package
65.265.00	400 ml

Marine vaseline spray

Is a natural efficient product use to fight against harmful salt deposits and to lubricate electrical contacts, instruments, fairleads, stanchions, portholes, etc. No deposit residues, easy to wipe.

Code	Bottle
65.288.00	400 ml

High Performance Gear Oil

Lubricating oil for outboard engines and stern drive legs. Packed in plastic tubes with filling nozzle. It protects the gears against wear, rust and corrosion.

Code	Package	ORDER BY BOX
65.088.00	250 ml	12

Hydraulic Oil

ISO VG15 hydraulic product with antifoaming additives to resist high pressure and corrosion. Recommende for hydraulic steering systems, power Trims, power Lift for outboard engines and stern drives, hydraulic flaps and hydraulic gangways.

Code	Package	ORDER BY BOX
65.089.00	250 ml	12

Marine Grease protective grease

Water-repellent white protective grease suitable for all mechanical parts that require protection and lubrication at a time. Recommended to protect, lubricate and avoid jamming of bolts, joints, steering and cable systems, battery clamps, propeller axles, bolts of wheels and trailers, and locks in the marine environment.

Code	Package	ORDER BY BOX
65.090.00	250 ml	12

► Cleaning products made of plant-based nanotechnologies

The use of nanotechnologies - which is the process of manipulating and organizing particles in the order of 1 thousand millionth of metre for fabrication of products - is constantly expanding and is being applied to an increasingly range of fields of our social life. The cleaning sector has lately made huge strides and the use of plant-based nanotechnologies led to the engineering of non toxic, biodegradable and eco-friendly products.

► Video

◀ 65.410.01

◀ 65.410.11

Cleanteak - degreaser for teak surfaces

BIODEGRADABLE **VEGETABLE ORIGIN**

Degreaser made of made of plant-based nanotechnologies ideal for cleaning teak surfaces both indoors and outdoors.
Free from aggressive agents that might arm the user and non-toxic for the environment, this product is recommended for everyday cleaning of teak parts.

Code	Package
65.410.01	750 ml
65.410.11	5 l

◀ 65.410.02

◀ 65.410.12

SuperCleateak - concentrated degreaser for persistent stains

BIODEGRADABLE **VEGETABLE ORIGIN**

Concentrated degreaser made of plant-based nanotechnologies ideal for cleaning teak surfaces both indoors and outdoors.
Specific for persistent stains.

Code	Package
65.410.02	750 ml
65.410.12	5 l

Brillwood - brightening detergent for wooden surfaces

BIODEGRADABLE **NEUTRAL FORMULA**

Multipurpose detergent recommended for cleaning natural and lacquered wooden surfaces.
It cures quickly without smell and residues.
The use of plant-based nantechnologies prevents hazards for the user and the environment.
Non-toxic, heavy metal- and paraben-free.

Code	Package
65.410.03	750 ml

Cleancoat - polisher for gelcoat surfaces

BIODEGRADABLE **VEGETABLE ORIGIN**

Concentrated polisher with draining effect for gelcoat and any washable surfaces.
The use of plant-based nantechnologies prevents hazards for the user and the environment.
Non-toxic and non-caustic.

Code	Package
65.410.04	750 ml

Poliglass - detergent for glazed surfaces

BIODEGRADABLE **VEGETABLE ORIGIN** **SCENTED**

Fast-evaporation scented detergent for glazed panes, crystal and mirrors.
The use of plant-based nantechnologies prevents hazards for the user and the environment.
Non-toxic and non-caustic.

Code	Package
65.410.05	750 ml

► Polishing pastes

IOSSO multipurpose polishing cream

Multipurpose non abrasive polishing cream to be used on any metal: silver, stainless steel, aluminium, brass, copper, bronze, gold and chromed parts. Also ideal to polish fiberglass, plastic, enamelled surfaces, plexiglass, etc. It doesn't scratch, corrode or damage and restores the original polish to keep it over time.

Code	Package
65.212.01	50-ml tube
65.212.02	250-ml can

► Products using nanotechnology for surface treatment

Nanotechnology uses chemical particles as little as nanometre (equal to one billionth of a metre). The products using nanotechnology offer extremely high weather protection.

Nano-Sea Polish water-repellent polish

Treating product for hull and deck. It cleans, restores and polishes paint to a perfect shine and removes light scratches. It protects from UV rays and prevents dirt from sticking to the surface and making cleaning easier. This product uses nanotechnology to restore old paints and gel coats. Suitable on gel coat, fiberglass, carbon, painted surfaces and metals.
Protection period: 150 days.

Code	Package	Yield
65.402.01	250 ml	20 m^2/l

Nano-Sea Hydroglass water-repellent product for windshields

Treat your windshield into a highly water-repellent and anti-mist surface. Water slides away without using the windshield wipers. Better clearness of the glass, optimum effectiveness up to 8 months.

Code	Package	Yield
65.402.04	250 ml	45 m^2/l

Nano-Sea Hydrowood for teak and hardwood protection

Deep penetration into wood surfaces. It creates a long-lasting invisible and water-repellent film that protects from dirt, mildew, UV rays, humidity, sunlight. Wood becomes water-repellent yet breathable and antiskid. Cleaning is much easier. Protection period: 2 seasons.

Code	Package	Yield
65.402.06	500 ml	15 m^2/l

NANOPROM Teak-brush micro

65.401.20 Special brush with extremely soft and fine bristles ideal for perfect cleaning of teak surfaces without scraping wood or damaging its grain. Traditional brushes and polishers scrape off teak while Teak-brush **doesn't damage** the teak surface thanks to its **very fine bristles**. Wooden brush for perfect grip during use with dedicated products.

► OSCULATI abrasive and polishing pastes

OSCULATI

65.227.00

65.230.16 (OPTIONAL)

65.230.01 (OPTIONAL)

Heavy 600 - Coarse-grained abrasive paste for stain purposes

Polishing abrasive paste with high stain power, suitable after sanding with P600 sand paper.
Despite its high abrasive power, it doesn't generate streaks, marks or squirts.
It reduces the sanding cycles therefore it's ideal for works on rough hulls after repairs.
Also suitable for heavily oxidized gelcoat.

Code	Colour	Polisher speed	To be used with OPTIONAL		Package	€ PACKAGE
			rough woollen cover (strong action)	orange cover (lighter action)		
65.227.00	White	800 - 1500 rpm	**65.230.16**	**65.230.01**	3 kg	4
65.227.02*	Black	800 - 1500 rpm	**65.230.16**	**65.230.01**	3 kg	4

* *Ideal for dark colour hulls.*

OSCULATI

65.220.10

65.230.16 (OPTIONAL)

65.230.01 (OPTIONAL)

Heavy 1000 - Coarse-grained abrasive paste

Coarse-grained polishing abrasive paste to be used after sanding with P1000 grain.
Excellent abrasive capacity combined with high-polishing level. For oxidized and yellowed gelcoat.

Code	Polisher speed	To be used with OPTIONAL		Package	€ PACKAGE
		rough woollen cover (strong action)	orange cover (lighter action)		
65.220.10	800 - 1500 rpm	**65.230.16**	**65.230.01**	1 kg	12

OSCULATI

65.221.05/10

65.230.15 (OPTIONAL)

65.230.01 (OPTIONAL)

Medium 1500 - Medium-power abrasive paste

Medium-power polishing abrasive paste to be used after sanding with P1500 grain.
It removes streaks and oxidation for an extremely bright and smooth surface.
Suitable for soft and coloured gelcoat and painted surfaces.

Code	Polisher speed	To be used with OPTIONAL		Package	€ PACKAGE
		fine woollen cover (strong action)	orange cover (lighter action)		
65.221.05	800 - 1500 rpm	**65.230.15**	**65.230.01**	500 g	20
65.221.10	800 - 1500 rpm	**65.230.15**	**65.230.01**	1 kg	12

OSCULATI

65.222.05/10

65.230.02 (OPTIONAL)

Light 2500 - Finishing polish

Finishing polish that removes polishing marks, micro-streaks and holograms.
The combination of nano-abrasive and polishing agents ensures bright surfaces in a matter of little time and effortlessly.
For dark delicate surfaces.

Code	Polisher speed	To be used with blue cover OPTIONAL	Package	€ PACKAGE
65.222.05	1000 - 2000 rpm	**65.230.02**	500 g	20
65.222.10	1000 - 2000 rpm	**65.230.02**	1 kg	12

OSCULATI

65.223.05/10

65.230.03 (OPTIONAL)

65.230.40 (OPTIONAL)

Polish + Wax - Protective polish + wax

Protective polish + wax that removes light oxidation, water stains and little flaws for extremely bright surfaces.
This polymer composite combines the polishing action with the spreading of a highly protective and durable water-repellent layer against the action of UV rays, weather agents and salt/calcareous water.
It prevents opacity, stains and marks. It can also be applied by hand and by machine.

Code	Polisher speed	To be used with OPTIONAL		Package	€ PACKAGE
		Black cover (by machine)	Microfibre cloth (by hand)		
65.223.05	1500 - 2000 rpm	**65.230.03**	**65.230.40**	500 g	20
65.223.10	1500 - 2000 rpm	**65.230.03**	**65.230.40**	1 kg	12

Accessories for OSCULATI abrasive pastes

Code	Description	To be used with	cm	PACKAGE
65.230.01	2 medium-stiff orange foam pads	-	Ø 15	20
65.230.02	2 medium-soft blue foam pads	-	Ø 15	20
65.230.03	2 soft black bubbly foam pads	-	Ø 15	20
65.230.15	Fine wool cover	-	Ø 18	20
65.230.16	Double-sided rough wool cover	-	Ø 20	10
65.230.21	Backing pad for drill	-	Ø 7.5	10
65.230.22	Hand-held backing pad	**65.230.01/02/03**	Ø 14.5	10
65.230.23	Adapter for rough wool cover	**65.230.16**	-	10
65.230.40	2 microfibre cloths	-	38x38	20
65.230.17 New	Single-sided rough wool cover	-	Ø 20	10
65.230.24 New	Backing pad for wool cover	**65.230.15/17**	Ø 17	10

OSCULATI

◢ 65.230.01

◢ 65.230.02

◢ 65.230.03

◢ 65.230.15

◢ 65.230.22

◢ 65.230.23

◢ 65.230.40

◢ 65.230.02

◢ 65.230.16

◢ 65.230.21

◢ 65.230.17

◢ 65.230.24

Cutting compounds and Polish

A wide range with packs from 0.5 kg to 3 kg,
ideal for small jobs, or professional shipyards.

- Excellent product coverage
- Developed for the marine environment
- Clear instructions, in four languages
- Match the lid colour to the tools

This fast cutting compound quickly removes scratches, defects and sanding marks

► AUTOSOL abrasive paste

Autosol is a German brand established in 1929. Market leader in the automotive sector, it has recently launched this marine range. All products are certified as biodegradable. Free countertop display with 24 tubes available on request.

Marine Shine AUTOSOL

This professional strength product cleans and polishes weathered boat surfaces. The abrasive agents remove rust from all bright metal parts and fiberglass surfaces on boats. Excellent for preserving the luster of hulls, decks and engines.

Code	Tube ml
65.524.01	75

Scratch remover AUTOSOL

This gentle and effective cleaner restores the optical clarity of worn and scratched synthetic glass surfaces, including convertible rear windows, plastic lenses, instrument panels, motorcycle helmet visors and windshields. It removes hazing and yellowing, while also filling in fine scratches to ensure uninhibited visibility. Leaves a clear, long-lasting, protective film to protect against scratches, weather damage and UV rays.

Code	Tube ml
65.524.02	75

AUTOSOL acrylic polish

Suitable for acrylic surfaces (perspex, plexiglass), polycarbonate, PMMA. It totally removes scrathces. On very worn surfaces, pre-treat with P2000 sandpaper.

Code	Tube ml	ORDER BY BOX
65.524.06	75	24

Leather cleaner AUTOSOL

Deep-cleaning action easily removes stains and built-up dirt from leather to restore original color and luster. The pH-balanced formula safely cleans leather without stripping nutrients or changing the look and feel. It leaves a natural matte finish. Also suitable for synthetic leather, vinyl or plastic.

Code	Tube ml
65.524.03	75

AUTOSOL low foam boat shampoo

Eco-friendly boat shampoo. It cleans glass panes, gelcoat and metal without generating foam. It has received the European Ecolabel certification.

Code	Bottle
65.524.21	1 l

Rust Ex AUTOSOL removes rust from stainless steel and corrosion from polished/chromed brass

It effectively removes corrosion and rust. Stainless steel is restored to its original shine. It containes an inhibitor that prevents rust spots typical of stainless steel from appearing again. Free from toxic substances.

Code	Bottle	ORDER BY BOX
65.524.00	250 ml	12

► 3M cleaning and maintenance products

3M Marine Metal Restorer & Polish

◢65.309.18

◢65.309.19

Removes traces of rust, corrosion and tarnishing caused by stainless steel, brass, bronze, cooper, aluminium and other metals; restores the original brightness of treated metals.

Code	Package
65.309.18	500 ml
65.309.19	150 ml

3M protective polish for dinghies and vinyl

Cleans, conditions and protects rubber parts on boats, ideal for restoring dinghies' surfaces.

Code	Package
65.309.23	0.250 l (gel)

3M SSC spray cleaner

Suitable for stainless steel and chromed or anodized surfaces; does not streak or mask imperfections on surfaces; non-corrosive; does not contain by-product petrol products.

Code	Package
65.309.38	600 gr

3M universal cleaner for adhesives

Special solvent allowing to clean easily almost all kinds of **adhesive** and to remove wax, grease, oil, tar. It doesn't damage dry painted surfaces, vinyl, fabrics.

Code	Package
65.309.99	500 ml spray

3M Marine Acryl Putty White

White acrylic putty, ideal for levelling imperfections, scratches and abrasions on fibreglass surfaces, wood or metal; does not require recoating.

Code	Tube
65.309.41	200 g

3M Scotch-Brite Cleaning System

System fitting with handle and pad, suitable for removing rust, incrustations and paints from metal surfaces, used to smooth rough surfaces; ideal for cleaning anchors, thrusters and hulls.

Code	Descrizione	ORDER BY BOX
65.315.01	**3M White pad**: for delicate surfaces	10
65.315.03	**Blue pad**: for aggressive action on hard and encrusted surfaces	6
65.315.92	**Supporting handle**	1

Heavy cutting compound - Polish for heavy oxidation

It effectively removes P800 scratches to leave behind a head-turning, high-gloss shine.
This improved, fast-cut formula is easier to use and allows you to use less product.

Code	Package
65.310.22	946 ml

Medium Cutting Compound + Wax - Polish for medium oxidation

New technology with aluminium oxide.
It effectively removes P1000 scratches. Designed for gelcoat.
This improved, fast-cut formula is easier to use and allows you to use less product.

Code	Package
65.310.23	946 ml
65.310.24	473 ml

Light Cutting Compound + Wax - Polish for light oxidation

New technology featuring aluminium oxide mineral.
It effectively removes P1500 scratches to leave behind a high-gloss shine.
This improved, fast-cut formula is easier to use and allows you to use less product.

Code	Package
65.310.25	946 ml
65.310.26	473 ml

Boat Wax - Carnauba wax

Easy to apply, it doesn't leave marks. Even more effective on warm surfaces.
Pure wax with a high % of carnauba. High gloss. Weather resistant, long lasting polish.

Code	Package
65.310.27	946 ml
65.310.28	473 ml

► Fastening systems and adhesive tape

3M Dual Lock (thin)

As thin as 1.7 mm, semi-transparent high-performance adhesive also for external use on painted surfaces, glass panes, polycarbonate, etc.

Code	Color	Roll
65.310.06	transparent	25 mm x 46 m

3M Dual Lock

Fastening system suitable for rigid and flexible surfaces (ideal for cover plates, panel systems, etc).
Prostheca density 250/inch^2.

Code	Color	Roll
65.310.01	black	25 mm x 46 m
65.310.02	- transparent	25 mm x 46 m

3M Scotchmate

3M bi-adhesive hook&loop fastener, fastening system for surfaces subjected to loads, but that must be removed frequently. Adhesive suitable for high temperatures in marine environment, ideal to fix upholstery.

Code	Colour	Roll m
65.311.01	Black	2 pairs of rolls (25 mm x 5 m)

3M Y389 Waterproof Cloth Tape (Grey Tape)

Cloth adhesive tape, resistant to peeling, cuts and water; ideal for emergency repairs, used for all operations that required, sealing, reinforcement, protection, jointing and sail repairs.

Code	Color	Roll
65.320.01	silver	50 mm x 50 m

3M 2090 Long Masking Tape

Masking tape, UV resistant, can be removed within 7 days after application without releasing the adhesive; adaptable, thin thickness, blue colour, easy to identify.

Code	Roll
65.326.01	18 mm x 50 m
65.326.02	48 mm x 50 m

3M Scotch 23

Self-amalgamating insulating tape, ideal for terminals, joints, cable re-constructions; device for protecting turnbuckles, spreaders and other metal terminals.

Code	Color	Roll
65.330.00	black	19 mm x 9 m

► Protective tape

Special anti-abrasion adhesive tapes that protect the boat surfaces during production and maintenance

3M Self-Stick liquid protection fabric, PN 36878

Specially engineered surface protection material. It temporarily protects surfaces from the damaging effects of liquids, oils and solvents while also trapping dirt..
It resists light impacts and abrasion. UV-resistant, it can be used to protect outdoor surfaces.
Its adhesive backing keeps it securely in place and can be repositioned without leaving residues.

Code	Roll
65.329.06	35.56 cm x 91.5 m

► Individual Retail Packs

3M double-sided tape

Code	Product	Description	Roll
65.331.91	3M Double-sided extra strong adhesive tape	high adhesive properties and long life. Suitable to fix heavy objects on uneven surfaces, too.	19 mm x 1.5 m
65.361.91	3M Double-sided mirror adhesive tape	for mirror fixing	19 mm x 5 m

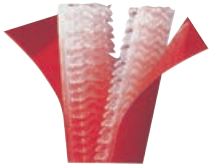
◢65.331.91

◢65.361.91

3M Dual Lock

Flexible open-close self-adhesive fastening systems fitted with two strips featuring tiny hooks. When pressed together, they adapt to several uses (either heavy or light objects).

Code	Package	Length mm	Color
65.396.75	2 stipes	25,4x76,2	transparent



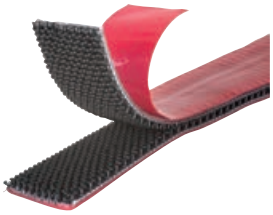
3M Bumpon Bumpers

Round bumpers, self-adhesive, clear; vibration dampening, softening noises and reducing damages to objects due to shocks.

Code	Ø mm	Pieces
65.397.01	12.7	12
65.397.05	19	8

► Fastening system and adhesive tape

VELCRO®



VELCRO® Brand ALFA-LOK® Fastener

Self-fastening system for indoor and outdoor use.
With the pressure closure of the mushroom-shaped hooks, positioning is possible before final fastening.
Top-performance fastening system, good adhesion for immediate positioning.
Excellent for fastening panels, ceilings, electronic central units, GPS systems, video cameras and sensors.

Code	Colour	Roll	Hold
65.450.03	Black	25 mm x 3 m	5.1 kg cm^2
65.450.25	Black	25 mm x 25 m	5.1 kg cm^2

VELCRO® Brand HIGH STRENGTH Fastener

High strength fastening system, it is a very good option as fastener but without boring.
The high-performance and heat-resistance adhesive allows for application on manifold surfaces (except PE and PP).
Excellent for fastening central units, light fixtures, lighting systems, panels, paintings and decoration elements.

Code	Colour	Roll	Hold	Application	Operating temperature
65.451.05	Black	50 mm x 5 mt	3,16 kg cm^2	Glue, staples, nails, screws	-20° C / + 120° C

VELCRO® Brand GENERAL USE Fastener

Hook and loop fastening strips having a very long life cycle. The adhesive allows for fast positioning.
Easy fastening system to be used in particular on flexible materials such as fabric, fly screens, curtains, cushions, lightweight decoration elements.
Recommended for indoor applications.

Code	Colour	Roll	Hold	Application	Operating temperature
65.452.01	White	20 mm x 5 mt	0,97 kg cm^2	Glue, staples, nails, screws	-15° C / + 90° C
65.452.02	Black	20 mm x 5 mt	0,97 kg cm^2	Glue, staples, nails, screws	-15° C / + 90° C
65.452.04	Black	50 mm x 5 mt	0,97 kg cm^2	Glue, staples, nails, screws	-15° C / + 90° C

VELCRO® Brand EXTRA THIN Fastener

Extra-thin hook-and-loop fastening system for hidden applications that can be repositioned.
The high-hold adhesive allows for fast positioning.
Excellent fastening of cable trays, LED lighting systems, profiles, lightweight panels, flooring, sensors.
Adhesive system suitable for a wide range of surfaces: aluminium, stainless steel, glass, plywood, polyester, polyethylene and polypropylene.
Non compatible with vinyl-PVC.

Code	Colour	Roll	Hold	Application	Operating temperature
65.453.05	White	20 mm x 5 mt	3,05 kg cm^2	Glue, staples, nails, screws	-15° C / + 60° C

VELCRO® Brand UNIVERSAL FLOORING Fastener

Ultra-thin hooks compatible with most flooring and flexible coating systems such as fabric, carpeting, TNT, PVC. Low profile, high heat resistance, no residues.
Easily removable fastening system for indoor applications, it doesn't damage the surfaces.

Code	Colour	Roll	Application	Operating temperature
65.454.25	White	45 mm x 25 m	Glue	-40° C / + 140° C

VELCRO® Brand ONE-WRAP® Strap & Tape

The self-fastening ONE-WRAP® Strap are ideal for fast and easy fastening of elements that might be repositioned in the future.
As an option to the traditional plastic clamps, they are a simpler and safer solution for wiring of electric and data cables, piping, optical fiber cables and miscellaneous cables.
Also available in rolls in the ONE-WRAP® Tape version that can be cut to measure for use with lines, cables, transport of materials, etc.

Code	Colour	Version	Roll	Application	Package
65.455.05	Black	Tape	10 mm x 5 m	Tie, wrap, fasten	Roll
65.455.20	FRT black	Straps	20 mm x 200 mm	Tie, wrap, fasten	25-pc blister

VELCRO® Brand Plastic Coins

PVC coins with hook-and-loop fastening strip and central hole.
To be paired with the buttonhole element of cushions and mattresses, both indoors and outdoors.

Code	Colour	Dimensions	Application	Type	ORDER BY BOX
65.456.01	White	45-mm Ø, 3-mm bore	Tie, wrap, fasten	BULK	1000 pcs
65.456.11 New	White	45-mm Ø, 3-mm bore	Tie, wrap, fasten	RETAIL	20 pcs

► TREADMASTER

TREADMASTER

TREADMASTER M-Original

Traditional flooring for **decks**, cockpits and ladders.
Anti-slip flooring for decks and cockpits, made in the UK from rubber-cork conglomerate.

Code	Color	Thickness mm	Sheet size mm	Surface
65.905.01	sand white	3	1200x900	diamond
65.905.02	medium grey	3	1200x900	diamond
65.905.03	medium blue	3	1200x900	diamond
65.905.04	brown	3	1200x900	diamond
65.905.05	light blue	3	1200x900	diamond
65.905.06	light grey	3	1200x900	diamond

65.905.01

65.905.02

65.905.03

65.905.04

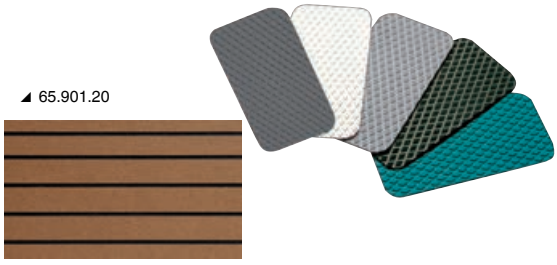
65.905.05

65.905.06

TREADMASTER M-Original DP self-adhesive plates

Self-adhesive plates in 2-pc display packaging.
Anti-slip flooring for decks and cockpits, made in the UK from rubber-cork conglomerate.

Colour		275x135 mm	412x203 mm
	Sand white	**65.901.02**	**65.901.12**
	Medium blue	**65.901.01**	**65.901.10**
	Grey	**-**	**65.901.16**
	Light grey	**65.901.05**	**65.901.15**
	Black	**65.901.08**	**65.901.18**
-	Black-edged teak	**-**	**65.901.20**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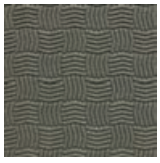
TREADMASTER Sp Classic

Cockpit flooring, sundeck and ladder steps.
Anti-slip flooring for decks and cockpits, made in the UK from rubber-cork conglomerate.

Code	Colour	Thickness mm	Sheet mm	Surface
65.906.01	Sand white	2	1200x900	Anti-skid knurling
65.906.02	Grey	2	1200x900	Anti-skid knurling
65.906.03	Medium blue	2	1200x900	Anti-skid knurling

65.906.01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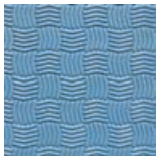

65.906.03

TREADMASTER Engine Room

Anti-skid waterproof flooring ideal for engine rooms. Resistant to mineral oils.
Anti-slip flooring for decks and cockpits, made in the UK from rubber-cork conglomerate.

Code	Color	Thickness mm	Sheet size mm
65.899.00	Black	3	1200x900

TREADMASTER Atlanteak

TEAK-finish anti-skid flooring. Made of thermoplastic: the two cured layers offer very high weatherproof and abrasion-resistant properties. **Long-lasting, waterproof,** comfortable and easy to install. **Anti-slip flooring for decks and cockpits, made in the UK from rubber-cork conglomerate**.

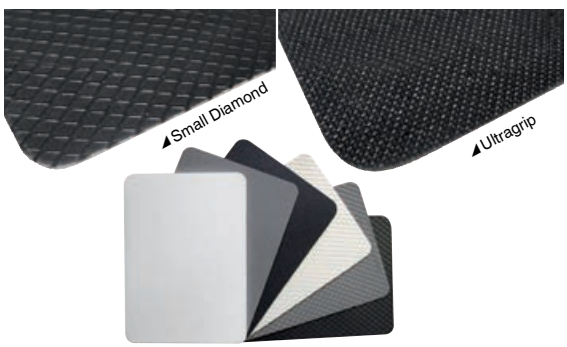
TK-G / TK-W version = top resistance, ideal for deck flooring and high foot traffic surfaces.
TK-C version = high content of cork, very similar to the traditional TREADMASTER M, ideal for sunbathing areas and barefoot walking surfaces.

Code	Version	Colour	Thickness mm	Panels mm
65.904.11	TK-W	TEAK-like + white seams	3.17	2500x1000

TREADMASTER M-Tec

New deck flooring. Thinner for better adaptability, high anti-slip properties.
Two finishes available: Small Diamond and Ultragrip.
Anti-slip flooring for decks and cockpits, made in the UK from rubber-cork conglomerate.

Code	Colour	Thickness mm	Plates size mm	Surface
65.902.06	Light grey	2.5	1200x900	Small Diamond
65.902.08	Black	2.5	1200x900	Small Diamond
65.902.11	White sand	1.8	1200x900	Ultragrip
65.902.16	Light grey	1.8	1200x900	Ultragrip
65.902.18	Black	1.8	1200x900	Ultragrip



OSCULATI

Adeprene 465 special glue, Treadmaster-dedicated

One-component formula. Suitable for all Treadmaster products and similar. It can be applied on fiberglass, wood, steel and aluminium.

Code	Package	Yield
65.907.01	850 g	2,80 m^2

► Sheets for building and DIY

King Plastic Corporation

KING STARBOARD

New **King StarBoard® sheets**

The original marine-grade high-density polyethylene sheet.
The King name is synonymous with quality and the King StarBoard® brand has been helping pros build better boats for more than thirty-years.

It is the product of a proprietary process called K-Stran™, the most advanced manufacturing process for superior flatness and consistency. Matte finish on both sides of the sheet.
It is environmentally stabilized to withstand the harshest outdoor conditions. It will not rust, delaminate or rot when exposed to UV, humidity or water.

Possible applications:
- Structural roofing.
- Bulkheads in the bilge or the peaks.
- Shelves.
- Furniture.
- Frames and finishings.
- Hatches and doors.
- Handles and rails.
- Fishing rod holders and glass holders.
- Steps and Dock Boxes.
- Tray tables.

Code	Thickness mm	Dimension mm	Colour
65.908.01	12.5	800x1200	White
65.908.02	19	800x1200	White

► Adhesive tape and repairing accessories

PSP marine tapes

PSP MARINE TAPES flame retardant PVC insulating tape

To identify phases, to mark and insulate electric cables. Also suitable as protection for turnbuckles.

Code	Roll	Colour
65.116.50	19 mm x 20 m	Red
65.116.51	19 mm x 20 m	Blue
65.116.52	19 mm x 20 m	Yellow
65.116.53	19 mm x 20 m	Green
65.116.54	19 mm x 20 m	Black

Super resistant PSP MARINE TAPES Dinghy Tape

Self-adhesive, UV-resistant, with plastic core. Suitable for emergency repairs. Once removed it **does not release any glue residues** on the surface. White colour.

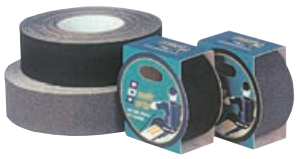
Code	Roll
65.118.50	50 mm x 5 m

PSP MARINE TAPES Spray Stop tape

It resists up to 200° and is ideal for emergency repairs on fuel hoses of hot/cold water hoses. It is made of a glass/aluminium film with silicon adhesive. This tape is required under SOLAS Regulation 11-2/15.2.11.

Code	Package
65.118.20	2 Rolls - 25 mm x 1 m

PSP MARINE TAPES Soft-grip special tape



Sticky anti-skid adaptable tape, self-adhesive, **does not release any glue residue** when removed; provides and extra grip where required.

Code	Color	Roll
65.116.90	grey	50 mm x 4 m

Self-amalgamating PVC tape

Essential for taping turnbuckles, electrical cables, splices, etc. It wraps around the object and shapes together forming a single uniform covering

Code	Color	Roll
65.115.00	black	25 mm x 3 m
65.115.01	white	25 mm x 5 m

PSP MARINE TAPES laminated rayon adhesive tape

Made with **polyethylene and rubber resins**, very soft and multipurpose. It can be torn and moulded by hand. It adheres to any type of surface, including dacron sails, on which it can be used for changes or emergency repairs during regattas. Also for repairs on lifevests, liferafts, inflatables, paddles.

Code	Color	Roll
65.118.00	silver	25 mm x 10 m

X-TREME self-amalgamating silicone tape

Developed for military uses, it is self-wrapping and extremely flexible. Insulation up to 8000 volt at 0.5-mm thickness. Elongation 300%, elongation at break 600 psi, flexible up to -50°, max temperature resistance 260°, UV resistant.
Applications: repairing and insulation of wiring and connection, heat insulation, repairing in engine compartments, repairing of fuel/water/air conditioning hoses, repairing of cooler hoses, protection of stainless steel cables and tighteners, tightening of line ends, general nautical rigging.

Code	Color	Roll
65.115.20	Black	25.4 mm x 3 m

Self-amalgamating silicon tape

As opposed to self-amalgamating PVC, it stands temperatures up to -50°C/+180°C and pressure up to 6 bar. Excellent oil and fuel resistance.

Code	Color	Roll
65.115.10	Black	25 mm x 3m
65.115.11	White	25 mm x 3m

PSP MARINE TAPES special waterproof super self-adhesive cloth tape

Suitable for repairing: seat cloth, hull cloth, oilskins, boots; may also be used as insulating tape on electrical systems; for emergency repairs on fibreglass hulls, sailboats, dinghies, canoes; provides anti-wear protection on parts that are subjected to frictions.

Code	Colour	Roll
65.116.00GR	Silver	50 mm x 5 m
65.116.00BI	White	50 mm x 5 m
65.116.00BL	Blue	50 mm x 5 m
65.116.00GI	Yellow	50 mm x 5 m
65.116.00NE	Black	50 mm x 5 m
65.116.00RO	Red	50 mm x 5 m

► Self adhesive waterlines

OSCULATI

Single-colour waterline stripe tape

Our waterlines have a special permanent glue that, after adhering to the hull, dries up and have the same characteristics of a painted strip. Very easy application thanks to self-aligning film. A usually long work will take you only few minutes.

white	blue	black	red	brick red	Height mm	Roll
65.108.15BI	65.108.15BL	65.108.15NE	65.108.15RO	65.108.15RM	15	10 m
65.108.30BI	65.108.30BL	65.108.30NE	65.108.30RO	-	30	10 m
65.108.00BI	65.108.00BL	65.108.00NE	65.108.00RO	-	50	10 m

2-stripe waterline

Our waterlines have a special permanent glue that, after adhering to the hull, dries up and have the same characteristics of a painted strip. Very easy application thanks to self-aligning film. A usually long work will take you only few minutes.

Blue	Red	Black	White	Height mm	Roll
65.109.01BL	65.109.01RO	65.109.01NE	65.109.01BI	34	10 m
65.109.00BL	-	65.109.00NE	-	72	10 m

Waterline stripe tape, 1 large and 2 narrow stripes

Our waterlines have a special permanent glue that, after adhering to the hull, dries up and have the same characteristics of a painted strip. Very easy application thanks to self-aligning film. A usually long work will take you only few minutes.

white	blue	yellow	black	red	Height	Roll
65.111.00BI	65.111.00BL	-	65.111.00NE	65.111.00RO	19 mm 3 stripes	10 m
65.110.00BI	65.110.00BL	65.110.00GI	65.110.00NE	65.110.00RO	50 mm 3 stripes	10 m

3-colour waterline stripe tape (shading off from dark to clear)

Our waterlines have a special permanent glue that, after adhering to the hull, dries up and have the same characteristics of a painted strip. Very easy application thanks to self-aligning film. A usually long work will take you only few minutes.

		Height mm	Roll
65.113.01BL	65.113.01GI	33	10 m
65.113.00BL	-	50	10 m
65.113.02BL	-	80	10 m

OSCULATI Antifouling

For professional and DIY use

► OSCULATI antifouling paints

OSCULATI

SP Classic 153 antifouling paint

Self-polishing antifouling paint based on copper salt free organic biocide. Compatible with any hull (fibreglass, aluminium, wood, etc.). Yield: 9 m^2/l. Recommended for moderately aggressive weather conditions.
Minimum temperature of application 10° C. Covering temperature: 6h at 20° C. Curing time before launching: 12h at 20° C.

White	Blue	Black	Package	PACKAGE
65.601.11	65.601.12	65.601.13	0.75 l	6
65.601.21	65.601.22	65.601.23	2.5 l	2

OSCULATI

HM Classic 153 antifouling paint

Hard matrix antifouling paint based on copper salt free organic biocide. Compatible with any hull (fibreglass, aluminium, wood, etc.). Yield: 9 m^2/l, colour 7 m^2/l. Recommended for aggressive areas in the average. Minimum temperature of application 10° C. Covering temperature: 6h at 20° C. Curing time before launching: 12h at 20° C.

White	Blue	Black	Red	Package	PACKAGE
65.611.11	65.611.12	65.611.13	65.611.14	0.75 l	6
65.611.21	65.611.22	65.611.23	65.611.24	2.5 l	2

OSCULATI

SP Premium 365 antifouling paint

Self-polishing antifouling paint based on copper oxide free organic biocide. Compatible with any hull (fibreglass, aluminium, wood, etc.). Yield: 8 m^2/l, colour 7 m^2/l. Recommended for aggressive weather conditions all year round.
Minimum temperature of application 10° C. Covering temperature: 6h at 20° C. Curing time before launching: 12h at 20° C.

White	Blue	Black	Package	PACKAGE
65.602.11	65.602.12	65.602.13	0.75 l	6
65.602.21	65.602.22	65.602.23	2.5 l	2

OSCULATI

HM Premium 365 antifouling paint

Hard matrix antifouling paint based on copper oxide free organic biocide. Compatible with any hull (fibreglass, aluminium, wood, etc.). Yield: 8 m^2/l. Recommended for aggressive weather conditions all year round.
Minimum temperature of application 10° C. Covering temperature: 6h at 20° C. Curing time before launching: 12h at 20° C.

White	Blue	Black	Red	Package	PACKAGE
65.612.11	65.612.12	65.612.13	65.612.14	0.75 l	6
65.612.21	65.612.22	65.612.23	65.612.24	2.5 l	2

OSCULATI

Sealer primer and sealant

Mono-component chlorine-caoutchouc primer. Compatible with any antifouling paint on new vessels or suitable as sealant on aged antifouling paints. Yield: 6.3 m^2/l. Covering time: 8h at 20° C. Colour: metalized grey.

Metalized grey	Package	PACKAGE
65.620.10	0.75 l	6
65.620.20	2.5 l	2

Two-component epoxy primer

Two-component epoxy primer for no matter what vessel application. For use on any kind of surface, both bottom and upper works, resulting in an anti-corrosion and insulating film. Spread a thin layer to let antifouling paints cling to the surface (curing time 4 to 12 hours @ 20°C). Spread 2 to 4 thick bottom layers for two-component cycles (curing time 12 to 74 hours @ 20°C). 12 m^2/l yield.

Code	Package	PACKAGE
65.621.10	0,75 l	6
65.621.20	2,5 l	2

MC Thinner

Thinner for one-component and antifouling paints. For spray, brush and roller application.

Code	Package	PACKAGE
65.625.10	0,5 l	12
65.625.20	2,5 l	6

► Painting materials

Paint brush with Ecolegno handle for varnish and paint

Blonde bristle paint brush with Ecolegno handle made from wood waste. It has a longer life than natural wood and resist humidity and solvents. For its metal ring and epoxy glue, it is a product suitable for water- or solvent-based varnish or paint. 100% Made in Italy.

Code	mm	Bristle length mm	PACKAGE
65.650.30	30 x 15	57	12
65.650.40	40 x 15	57	12
65.650.50	50 x 15	64	12
65.650.60	60 x 15	64	12

Paint brush with plastic handle for fiberglass

Blonde bristle paint brush with plastic handle and metal ring. Resistant to solvents. Ideal for fiberglass applications. 100% Made in Italy.

Code	mm	Bristle length mm	PACKAGE
65.651.30	30 x 15	44	12
65.651.40	40 x 15	50	12
65.651.50	50 x 15	50	12
65.651.60	60 x 15	50	12

Paint brush with long handle

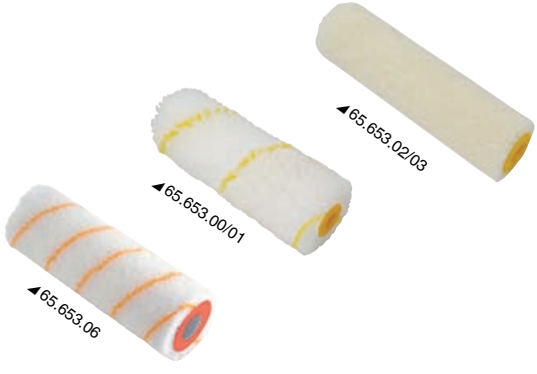
Blonde bristle paint brush with 30-cm long plastic handle and metal ring. The epoxy glue makes it resistant to solvents. 100% Made in Italy.

Code	mm	Bristle length mm	PACKAGE
65.652.30	30 x 15	51	12
65.652.40	40 x 10	57	12
65.652.50	50 x 10	57	12

Paint rollers

High-quality professional paint rollers, 100% Made in Italy.

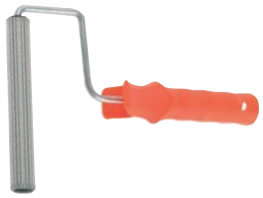
Code	Description	Ideal for	mm	Material	OPTIONAL handle	ORDER BY BOX	PACKAGE
65.653.00	Long-bristle roller	Antifouling - Fiberglass	50	10-mm polyamide	**65.653.04**	20	200
65.653.01	Long-bristle roller	Antifouling - Fiberglass	100	10-mm polyamide	**65.653.05**	10	100
65.653.02	Short-bristle roller	Gelcoat, thin paint (polyester), varnish, thin applications	50	4-mm velour wool	**65.653.04**	20	200
65.653.03	Short-bristle roller	Gelcoat, thin paint (polyester), varnish, thin applications	100	4-mm velour wool	**65.653.05**	10	100
65.653.06	Long-bristle creased roller	Antifouling - Fiberglass	200	13-mm polyamide	**65.653.07**	-	60



Handles for rollers

High-quality material for professional rollers. 100% Made in Italy.

Code	Description	⟷ mm	Suitable for
65.653.04	Handle for small roller	50	65.653.00; 65.653.02
65.653.05	Handle for small roller	100	65.653.01; 65.653.03
65.653.07	Handle for roller	200	65.653.06



Bubble blaster

65.653.08 Aluminium bubble blaster. Ideal to remove air bubble during fiberglass lamination.

Tray

Plastic tray for paints.

Code	⟷ mm
65.653.09	180 x 220

Paper tape

Professional paper tape. Solvent-based natural rubber adhesive, resistant up to 60° C.

Code	⟷	€ PACKAGE
65.654.19	1.9 cm x 50 m	96
65.654.25	2.5 cm x 50 m	72
65.654.50	5 cm x 50 m	36

Paper tape for high temperatures

Japanese rice paper tape. Delicate UV-resistant acrylic adhesive suitable for outdoor applications and resistant up to 150° C. 60-day life under sun exposure. For perfect and finished lines on all surfaces.

Code	⟷	€ PACKAGE
65.655.25	2.5 cm x 50 m	36
65.655.50	5 cm x 50 m	24

Masking film

Nylon twin film with paper tape. Ideal for masking and protecting during coating.

Code	⟷	€ PACKAGE
65.656.01	55 cm x 20 m	60
65.656.02	140 cm x 33 m	20

Paint mask

Code	Description	ORDER BY BOX
65.657.06	Active-carbon mask Mascherina carboni attivi E149+A1 FFP2 NR D	12

► VENEZIANI Antifouling paints

SPEEDY CARBONIUM - carbon-based antifouling

Carbon-based antifouling for maximum performance. Special for both motor and sail racing vessels where smooth bottoms are required. Two-component product.

light grey	black	Yield	Package
65.000.00	65.000.03	10,6 m^2/l	0,75 l
65.000.10	65.000.13	10 m^2/l	2.5 l

VENEZIANI Raffaello Antifouling

Copper and carbon-based self polishing antifouling for excellent smoothness. For sailing and motor boats up to 35 m.

blue	black	red	racing white	Yield	Package
65.001.11	65.001.13	65.001.10	65.001.02*	10/12 m^2/l	0.75 l
65.001.21	65.001.23	65.001.20	65.001.32*	10/12 m^2/l	2.5 l

* *Also suitable for aluminium and steel.*

VENEZIANI Eurosprint Antifouling

Long-lasting antifouling with a high copper content. Suitable for high speed vessels (over 35 knots) or sailing yachts (but not aluminium hulls)

white	blue	black	red	Yield	Package
65.002.02*	65.002.11	65.002.12	65.002.10	9/11 m^2/l	0.75 l
65.002.32*	65.002.21	65.002.22	65.002.20	9/11 m^2/l	2.5 l

* *Also suitable for aluminium hulls.*

VENEZIANI Cupron 3.0 antifouling paint

Antifouling ablative paint for seasonal protection. It keeps the surface as new and the protection film wears out less than a self-polishing antifouling paint.

White	Blue	Black	Yield	Package
65.006.02	65.006.03	65.006.04	9 m^2/l	0.75 l
65.006.12	65.006.13	65.006.14	9 m^2/l	2.5 l

VENEZIANI Gummipaint elastic antifouling paint

Elastic antofouling paint for inflatables suitable for neoprene / Hypalon / PVC.

White	Grey	Black	Yield	Package
65.009.12BI	65.009.12GR	65.009.12NE	12 m^2/l	0.5 l

VENEZIANI Propeller antifouling paint

Hard matrix copper-free antifouling for propellers, shafts, sterns, flaps, etc.

white	grey	black	Yield	Package
65.021.00BI	65.021.00GR	65.021.00NE	15 m^2/l	0,25 l

► VENEZIANI Primers

VENEZIANI Propeller Primer

Specific for synthetic resin-based propellers, shafts and stern drives, etc..

Code	Color	Yield	Package
65.021.01	grey	14/19 m^2/l	0.25 l

◢ 65.021.01

VENEZIANI Adherglass primer

One-component background primer for fiberglass. **No** need to sandpaper but only to degrase very well.

Code	Color	Yield	Package
65.006.00	pink	13 m^2/l	0.75 l

◢ 65.007.00/01

VENEZIANI Adherpox primer

Long-lasting two-component epoxy primer for whatever surface, aluminium included. It can be used either as primer or as background for paint layers.

Code	Colour	Yield	Package
65.007.00	White	3/6 m^2/l	2.5 l
65.007.01	White	3/6 m^2/l	0.7 l

◢ 65.006.00

► VENEZIANI Fillers

VENEZIANI Epomast filler

Two-component epoxy filler, high mechanical resistance. Excellent resistance on whatever surface, even epoxy ones.

Code	Color	Package
65.018.00	Light grey	0.50 l

VENEZIANI Epomast Evo filler

Extra-light epoxy filler, very well-blended and easy to sandpaper, also suitable for osmosis treatment. Normally used for major imperfections and thickness. Suitable for all surfaces.

Code	Color	Package
65.018.01	Light blue	1.5 l

Filler VENEZIANI Epomast Rapido

Fast drying smoothing epoxy filler for easy repairs, 10-mm thick for every layer. It can be used on any surface treated with primer, or directly on epomat-pro or on epoxy backgrounds.

Code	Color	Package
65.018.02	Light grey	0.5 l

VENEZIANI two-component epoxy filler for underwater uses

For temporary repairs of underwater cracks of the hull even during navigation. Perfect adhesion to fiberglass, Gel Coat, existing epoxy coating, tar, steel and concrete.

Code	Colour	Pack
65.018.03	Light blue	2x1 kg

► VENEZIANI backgrounds

VENEZIANI Epoway primer

Two-pack epoxy primer with barrier effect. Suitable as an insulator and anti-corrosion agent on any surface.

Code	Color	Yield	Package
65.015.00	White	5 m^2/l	0.6 l

VENEZIANI Ticoprene AL primer

One-component chlorine gum aluminate primer. Ideal as waterproof and anti-corrosion protection for hulls, iron and sailing hulls, or as sealing coat on old antifoulings.

Code	Colour	Yield	Package
65.024.00	Aliminized	8.6 m^2/l	0.75 l

VENEZIANI Aquastop coating

Anti-osmosis waterproofing coating for fiberglass. It can also be used as insulating background for metal parts (bulbs, rudders, etc.)

Code	Color	Yield	Package
65.023.00	Transparent light blue	5 m^2/l	0.75 l

VENEZIANI Resina 2000 background

Structural epoxy system to protect and renovate wood and fiberglass. It can be stratified by soaking glass, Kerlar and carbon fabrics.

Code	Yield	Package
65.027.01	10 m^2/l	0,75 l

► VENEZIANI Paints

VENEZIANI Gel Gloss - Pro varnish

Two-component UV resistant polyurethane varnish. It can be applied directly on GELCOAT or epoxy/ polyurethane surfaces. Not fit for continuous immersion.

red	white	atlantic blue	autumn grey	Yield	Package
65.008.00RO	65.008.00BI	65.008.00BA	65.008.00GA	13-15 m^2/l	0,75 l

VENEZIANI Unigloss varnish

Superior one-component alkyd-polyurethane varnish. Suitable for interiors and exteriors. Not fit for continuous immersion.

white	deep blue	sky blue	Yield	Package
65.005.01BI	65.005.01BF	65.005.01BS	10 m^2/l	0,5 l

Varnish VENEZIANI Wood-Gloss

Bright and transparent two-component polyurethane varnish especially fit for in-sight wooden elements.

Code	Color	Yield	Package
65.016.00	Transparent	19 m^2/l	0,75 l

VENEZIANI Sentiflex paint

Monocomponent paint for bilges.

Code	Colour	Yield	Package
65.019.01	grey	6/7 m^2/l	0.75 l

VENEZIANI Timber Gloss flatting

Bright one-component modified alkyd flatting. Suitable for all kinds of wood.

Code	Color	Yield	Package
65.004.00	Trasparente	11,2 m^2/l	0,75 l

VENEZIANI Ceramite Yachting paint

Very thick odourless epoxy coating suitable for the inside/outside treatment of whatever surface to seal. Ideal for peaks, galleys, bilges, etc.

Code	Colour	Yield	Package
65.014.00	White	6.7 m^2/l	0.75 l

VENEZIANI Gummipaint

Elastic mono-component paint for inflatables. Suitable for neoprene, Hypalon, PVC.

white	yellow	grey	black	Yield	Package
65.009.02BI	65.009.02GI	65.009.02GR	65.009.02NE	6,6 m^2/l	0,5 l

Thinner and other products made by VENEZIANI

Code	Model	Description	Bottle
65.010.00	6470	Antifouling / synthetic	0.50 l
65.011.00	6780	Polyurethanic	0.50 l
65.011.01	6700	Specific for Gel-Gloss-Pro	0.50 l
65.012.00	6380	Gummipaint	0.50 l
65.013.00	6610	Epoxy	0.50 l

VENEZIANI Aquastrip gel

Paint-stripper gel for water-based antifoulings. Odourless.

Code	Colour	Yield	Package
65.026.01	Green	1-1.5 m^2/l	2.5 l

► MARLIN products

MARLIN Yacht Paints

MARLIN Velox Plus antifouling paint

Specific product for submersed metal parts such as **propellers, stern drives,** shaft lines. **Does not degrade** with galvanic currents, which are the major causes for peeling paint. Velox Plus is superior to all similar products for its anti-algae capabilities and for its adhesion and resistance to abrasion. Non compatible with other antifouling paints. Apply metal-primer 65.884.01

white	volvo grey	black	Package
65.886.00BI	65.886.00GR	65.886.00NE	500 ml

Velox Plus cannot be overlapped with standard Velox

Metal Primer MARLIN

Light green primer with excellent adhesion to all metals. To be used before Velox.

Code	Package
65.884.01	0.5 l

MARLIN Flexy paint

"Marlin" one pack formulated for RIBs. Suitable for neoprene and PVC.
Rendering 8/10 m ^{2} /l, can of 0.5 litre

orange	white	yellow	grey	black	red	Package
65.120.03	65.120.06	65.120.02	65.120.01	65.120.04	65.120.07	0,5 l

MARLIN thinner for Flexy and Superflex

Code	Package
65.121.00	0,5 l

MARLIN Universal thinner for various antifouling paints

Code	Package
65.122.00	0,5 l

Marlin Eco antifouling paint for transducers, depth finders and logs

Ideal product for the application it is destined to.
Free from any substance interfering with the transducer signal.

Code	Color	ORDER BY BOX
65.888.01	Black	70 ml

► Marine Motor Paint antifouling paint

OSCULATI

Antifouling spray paint for feet and propellers

In spray pack

Code	Color	Package
52.120.00	White	400 ml
52.121.00	Black	400 ml
52.122.00	Volvo grey	400 ml
52.123.00	Clear (for thrusters)	400 ml
52.560.50	Zinc primer (deck)	400 ml

► Silicon-based antifouling paints

PROPSPEED release silicon paint by Oceanmax

Silicon-based treatment for propellers and propeller axles.

Produced by the New Zealand branch of Oceanmax, this treatment offers:
- Reduced consumption.
- Longer duration of the traditional biocide antifouling paints.
- Better adhesion.
- Protection for metals against galvanic currents.

KIT 200 or 500 include:
- 96- or 240-ml primer
- 24- or 60-ml hardener for primer.
- 80- or 200-ml clear paint.
- Propclean Wipe (cleaning wet wipe).
- Propprep Wipe (pretreating wet wipe).
- Detailed instructions for application.

Code	Description	Paint for
65.892.01	200-ml kit	0.4 m^2 1 propeller 4 blades up to 60-cm Ø. All sail propellersdrive.
65.892.02	500-ml kit	1 m^2 2 propellers 4 blades up to 60-cm Ø + propeller axles

LIGHTSPEED release silicon paint for underwater lights by Oceanmax

65.281.00 Silicon-based treatment for underwater lights. Produced by the New Zealand branch of Oceanmax, this system creates a clear coating film repelling foul or easily released from foul and therefore allowing for excellent light diffusion.
The kit includes:
- Brush.
- Lightclean wipe wet with specific solution.
- 15-ml Lightspeed tube.

► Electronic antifouling system

4bready ^{R} antifouling ultrasound electronic device

The fully patented 4bready^{R} device has been developed using the principle of ultrasonic wave to inhibit the growth of marine organisms such as cirripeds, mussels and barnacles.
The device utilizes a microprocessor control unit in combination with non through-hull ultrasonic transducers secured to the inside of the hull. The number of transducers required varies according to the size of your boat, with each covering about 6 meters diameter.
The device is fitted with two transducers and is suitable for boats up to 12 metres long.
Major advantages deriving from the use of this device:
-Saving on all maintenance cycles of the boat
-Fuel saving deriving from the hull cleaning
-Total elimination of chemicals which could be harmful to the marine environment.

Code	Max consumption	Cable standard length	Transducer voltage	Transducer power	Frequency in sequence
65.895.00	900 ma 12 V	8 m	250 V to 850 V peak to peak	40/60 W	18 khz – 42.80 khz

65.895.01 *Additional transducer to extend coverage to boats up to 18 metres long.*

65.895.02 *10-m extension cable for transducers.*

► Transparent paint

RYLARD VG66 Premium clear varnish for wood substrates

Top-quality clear oil based marine varnish, U.V. filters. It combines elasticity and durability with high gloss. VG 66 Premium is ideal for varnishing wooden boats and protecting them from weather, sun and temperature changes. On bare wood, or wood restored to new, apply 2 layers of VG 66 Premium half diluted in white spirit. Apply 5 or 6 (even more) layers of pure product each every 24 hours. Slightly sand the substrate before the final coat. Do not apply on damp wood or in rainy days.

Code	Yield	Drying	Repaintability	Package
65.890.00	18 m^2/l	8 h	24 h	0.75 l

► Accessories for inflatables

OSCULATI

EPDM handle for rubber dinghies with AISI316 stainless steel insert

AISI 316

Made of **EPDM** and fitted with mirror polished **AISI316 stainless steel** insert.

Code	Type	Material	Colour	⟷ mm	
				base	height
66.070.20	Handle	EPDM	RAL 7035 grey	280x115	65

EPDM handle for dinghies

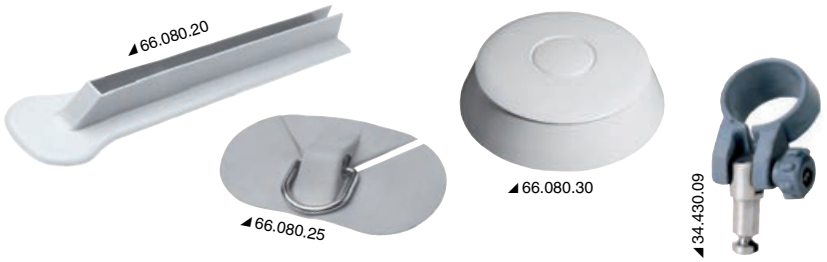
Made of EPDM, for dinghies.

Light grey RAL 7035	Dark grey RAL 7012	Black	Type	Material	⟷ base mm
66.070.32	-	**66.070.31**	handle	EPDM	230x100
66.070.28	**66.070.58** New	-	handle/cleat	EPDM	284x116
66.070.30	-	**66.070.29**	handle	EPDM	300x120

PVC accessories for inflatables

Code	Type	Material	Colour	⟷ mm		
				base	height	thickness
66.080.01	Handle	PVC	Grey RAL 7035	90x280	65	-
66.080.02	Handle	PVC	Grey RAL 7035	90x245	47	-
66.080.05	32/35-mm Ø oar hook	PVC	Grey RAL 7035	80x132	44	-
66.080.10	Bullseye	PVC	Grey RAL 7035	70x100	33	-
66.080.11	Fairlead	PVC	Grey RAL 7035	88x58	26	-
66.080.15*	Oar crutch base	PVC	Grey RAL 7035	90x200	50	-
66.080.20	Stern support	PVC	Grey RAL 7035	540x100	47	25
66.080.25	Bow ring	PVC	Grey RAL 7035	95x175	22	-
66.080.30	Tail cone	PVC	Grey RAL 7035	Ø 195	-	-

* **34.430.09** *Rowlock for 66.080.15*



Fast Rubber bow cleat

It can be glued on both neoprene and PVC fabric.

Code	Type	Colour	⟷ mm	Line max Ø mm
66.320.01	With clam cleat	Light grey RAL 7035	240x192x70 h	15/16

New Style EPDM accessories for dinghies

Code	Type	Material	Colour	⟷ mm base	⟷ mm bore Ø	
66.070.44	Fairlead	EPDM	Light grey RAL 7035	96x96	18	-
66.070.43	Fairlead	EPDM	Black	96x96	18	-
66.070.53 New	Fairlead	EPDM	Dark grey RAL 7012	96x96	18	-
66.070.40	Rowlock holder *	EPDM	Light grey RAL 7035	200x100	12.5	-
66.070.45	Bimini top holder	EPDM	Black	Ø 100	11.5	-
66.070.56 New	Bimini top holder	EPDM	Dark grey RAL 7012	Ø 100	11.5	-
66.070.46	Bimini top holder	EPDM	Light grey RAL 7035	Ø 100	11.5	-
66.645.00	Basis for bimini tops or flag holder	EPDM	Black	Ø 77 x 40	10	It can be widened
66.645.01	Basis for bimini tops or flag holder	EPDM	Light grey RAL 7035	Ø 77 x 40	10	It can be widened

* **34.430.09** *OPTIONAL rowlock.*

◢66.070.43/44

◢66.070.46

◢66.070.40

◢66.645.00

◢34.430.09

◢66.070.56

Compact rowlock socket made of EPDM/PVC

For inflatables up to 3 metres.

Code	Type	Material	Colour	⟷ mm base	⟷ mm height	OPTIONAL rowlock
66.070.50	Rowlock socket	PVC	Grey RAL 7035	110x170	40	**34.430.09**

◢66.070.50

◢34.430.09

Stainless steel base for bimini tops and EPDM support for rubber dinghies

The EPDM support is designed to be stuck on the dinghy tubes.

Code	Type	Material	Support colour	⟷ support mm	SS base used
46.670.30	Base and support	EPDM + SS	Light grey RAL 7035	188x135	**46.670.00**
46.670.40	Base and support	EPDM + SS	Light grey RAL 7035	188x135	**46.670.10**

◢46.670.30

EPDM carrying handle

Code	Type	Material	Colour	⟷ mm base	⟷ mm height
66.676.00	Straight handle	EPDM	Black	250x110	48

EPDM straight flag pole with thread

Code	Material	Colour	⟷ base Ø mm
66.233.00	EPDM	Black	75

EPDM oar holder

Code	Material	Colour	⟷ base Ø mm
66.005.00	EPDM	Black	110

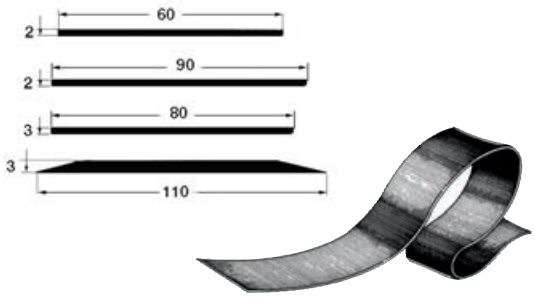
Aluminium hoisting handle

Code	Material
66.009.00	**Aluminium**

Stainless steel D rings with EPDM support

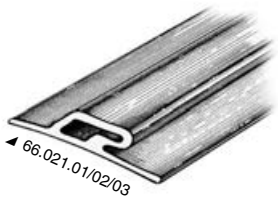
Code	Material	Colour	⟷ Ø mm
66.006.00	EPDM + SS	Black	100

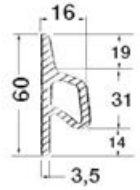
► Rubber extrusions for inflatables & RIBS



Strips for keel or sideways made of EPDM

Code	Section mm	Colour	Roll m
66.016.01	60x2	Black	24
66.016.02	60x2	Light grey RAL 7035	24
66.020.01	90x2	Black	24
66.020.00	90x2	Light grey RAL 7035	24
66.018.01	80x3	Black	24
66.018.02	80x3	Light grey RAL 7035	24
66.017.01	110x3	Black	24
66.017.02	110x3	Light grey RAL 7035	24
66.017.03 New	110x3	Dark grey RAL 7012	24



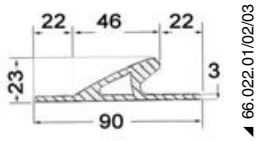


66.021.01/02/03

EPDM Tear drop Rubbing strake

Code	Section mm	Colour	Roll m
66.021.01	3.5x60x16	Black	24
66.021.02	3.5x60x16	Light grey RAL 7035	24
66.021.03 New	3.5x60x16	Dark grey RAL 7012	24
66.022.01	3x90x23	Black	24
66.022.02	3x90x23	Light grey RAL 7035	24
66.022.03 New	3x90x23	Dark grey RAL 7012	24

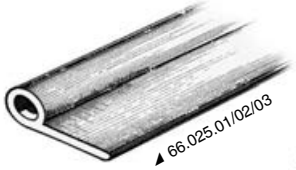
66.022.01/02/03

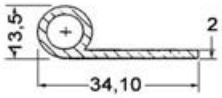


66.022.01/02/03

EPDM Double Tear drop Rubbing Strake

Code	Section mm	Colour	Roll m
66.023.02	115x21.4	Light grey RAL 7035	24

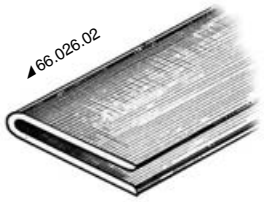


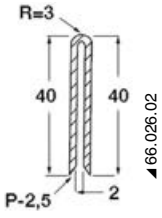


66.025.01/02/03

EPDM P Section Rubbing Strake

Code	Section mm	Colour	Roll m
66.025.01	2x34.10x13.5	Black	24
66.025.02	2x34.10x13.5	Light grey RAL 7035	24
66.025.03 New	2x34.10x13.5	Dark grey RAL 7012	24
66.026.02	2x2x40	Light grey RAL 7035	24





66.026.02

► Valves and air pressure gauges for inflatable boats

66.446.64

66.446.65

66.446.41

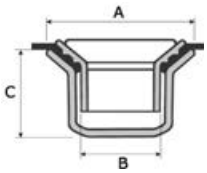
66.446.44

Inflating/deflating valve for inflatable boats

Universal model, PUSH-PUSH mechanism.
Made of acetic resin, double seal. Screw mounted without glue.

Code	Type	With cord	A mm	B mm	C mm
66.446.64	Standard	External	62	38	38
66.446.41	With cartridge filter	External	62	38	38
66.446.44	Flat	External	62	37	38
66.446.65*	Flat	Internal	62	37	38

* *this special version is specifically designed to avoid getting hands or feet caught in the safety cord.*



Boston valve

Boston valve for low-pressure dinghies, kayaks, canopies and inflatables.

Code	Material	Ø mm	Thread Ø	Height mm
66.446.20	Nylon	44	M24*1.5	19.5

Pressure relief valve

Designed to prevent overinflating in inflatables.
The valve can be left open at all times, or it can be closed and then opened for recurring checks.
Hole in the fabric: 37-mm diameter.

Code	Calibration	
	Opening	Closing
66.446.68	250 mbar	230 mbar
66.446.69	300 mbar	270 mbar
66.446.70	350 mbar	310 mbar

New Adapter for inflators and valves

66.446.54 Bayonet adapter for inflator hose and inflating valves item 66.446.64; 66.446.65 and equivalent (Halkey Roberts, Ceredi etc).

Manometer for inflator

It can be placed between the inflator and the valve for a progressive reading or directly in the valve for an immediate reading.

Codice	For rubber dinghies	Full scale
66.446.62	Standard	0.5 bar (8 PSI)
66.446.63	With high-pressure bottom	1 bar (15 PSI)

Pressure Gauge for valves

It plugs directly into the inflatable valve by means of a universal adapter.

Code	Full scale
66.446.72	0.5 bar (8 PSI)
66.446.73	1.0 bar (15 PSI)

Digital manometer

It can be located between the inflator and the valve or directly into the valve for instant reading.
IP65 watertight case. Settable in mbar, psi, kpa, bar.

Code	Full scale	Resolution	Power
66.446.75	0-999 mbar	10 mbar	9V battery

Universal valve key

Code	For valves
66.446.45	66.446.64/65/41

► Manual Inflator Pumps

Leopard inflator

Continuous flow piston operation, 4-litre flow for each cycle. Much faster than traditional foot pumps; it includes pipe and connectors of various diameters. It inflates and deflates.

Code	Version	Max pressure	Diaphragm	Pressure gauge	⟷ mm
66.446.58	Continuos flow	1000 mbar (14.5 psi)	4 l	No	457x100
66.446.57	Continuos flow	1000 mbar (14.5 psi)	4 l	Yes	457x100

Leopard Bypass inflator

The most evolved on the market.
Aluminium central shaft, dual- or simple-flow operation in case elevated pressure is needed (max 1.72 BAR/25 psi) for inflatable bottoms of dinghies or SUPs.
Fitted with 25-psi pressure gauge.

Code	Max pressure	Diaphragm	Pressure gauge	⟷ mm
66.446.47	1.72 BAR (25 psi)	3,8 l / 1,4 l	YES	110x240x570

BRAVO 6 inflator

Continuous flow piston operation, 6-litre capacity for each cycle, double inflation speed compared to traditional inflator pumps.
It can also be used as **bilge pump or air compressor** by scuba divers.

* Bravo 6 can be turned into a simple flow inflator allowing to inflate at maximum pressure with a limited stress.

Code	Version	Max pressure	Diaphragm	Pressure gauge	⟷ mm
66.446.66	Continuous flow / simple flow	600 mbar (8.7 psi)	6 l	No	210x120x470

High-pressure SUP inflator

It inflates any SUP at the ideal pressure and the high-pressure bottom of pneumatic boats.

Code	Version	Max pressure	Tank	Pressure gauge	⟷ mm
66.446.67	Continuous flow/simple flow	1380 mbar (20 PSI)	2 l	Yes	590x60

BRAVO Alured inflator

Double-flow pump (inflated/deflated), aluminium central axle with automatic switch from double to single flow when exceeding 400 Mbar to reduce stress.

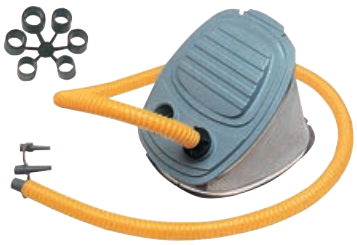
Code	Version	Max pressure	Accumulator tank	Pressure switch	⟷ mm
66.446.56	Double flow	800 Mbar (11.6 psi)	2 x 2 l	No	11x22x47

New — SCOPREGA high-pressure inflator for SUP GM 6

Double-flow hand inflator. ABS and aluminium body.
The inflator can switch from double to single flow. Available in red.
Suitable for SUP boards, kites, kayaks, small dinghies and tents.

Code	Version	Max pressure	Tank	⟷ mm
66.446.48	Inflation+deflation	1 bar (14,5 psi)	2 x 2.5 l	170x300x580

GP 5 inflator



Supplied with compatible adapter to suit most valve types.

Code	Type	Max pressure	Tank	Pressure gauge	⟷ mm
66.446.77	GP 5	400 mbar	5 l	No	210x290x80

BRAVO 7 Foot Pump

100% nylon and neoprene, stainless steel metal parts. Fitted with built-in 0-0.5 bar (0-8 PSI) pressure gauge. 5-l flow for each cycle. Universal fittings included.

Code	Twin chamber	Max pressure	Tank	Pressure switch	⟷ mm
66.446.52	No	400 mbar	5 l	Yes	280x210x60

Two chamber professional Foot Pump BRAVO 10

Worldwide patent No. 21847. The double chamber enables reaching the recommended pressure of large fabric or rubber dinghies effortlessly.
Fitted with visual pressure indicator, crushproof hose and three inflating connections.
Equipped with deflation device.

Code	Twin chamber	Max pressure	Tank		Pressure switch	⟷ mm
			chamber 1	chamber 2		
66.446.50	Yes	800 mbar	5.5 l	1.6 l	Yes	350x250x80

► Electric inflator pumps

New

Electric inflator for SUP boards

2-stage pump for inflation and deflation.
Compact and easy to carry by means of a comfortable handle.
Digital controller and LCD display for pressure setting.
Lighter plug + battery clamps.

Code	Function	V	W	Flow l/min	Max pressure	Current draw A	⟷ mm
66.451.01	Inflation + deflation	12	110	350 at low pressure 70 at high pressure	1.38 mbar (20 PSI)	9-12	155x250x175

New

GE BP-1 12V inflator

Automatic stop when the adjustable preset pressure is reached.
With a flow of **160 l/min**, it inflates at a max pressure of **1200 mbar (18 psi)**.
The hose/inflator screw-type connector is stable and safe.
It comes in a shoulder carrying bag with all accessories:
1.7-m hose, 3-m power cable, lighter plug and 12V battery clamps.
The standard version with bayonet fitting is ideal for **SUP** boards.

◢ 66.449.11

◢ 66.449.12

Code	Functions	V	W	Flow l/min	Max pressure	Current draw A	⟷ mm	OPTIONAL connections
66.449.11	Inflation	12	240	160	1200 mbar (18 PSI)	13	205x105 x130	**66.449.12**

66.449.12 *The spares kit includes an additional hose and several fittings to inflate kits, dinghies, liferafts, air mattresses and pool inflatables.*

GE BTP-1 inflator

Automatic stop when the preset pressure, adjustable by means of a pressure gauge, is reached. Fitted with air filter, it comes with a bag, 1.7-m hose, 3-m supply cable, compatible fittings, lighter plug and 12V battery clamps.

Code	Functions	V	W	Flow l/min	Max pressure	Current draw A	⟷ mm
66.449.04	Inflation+deflation	12	240	120-420	1000 mbar (14.5 PSI)	13	295x105x160

66.447.22

Bravo Superturbo adjustable pressure inflator/deflator

It uses the turbine/piston solution, which eliminates parts subject to deterioration.
Its stops at the set pressure. Universal fittings included.

Code	Functions	V	W	Flow l/min	Max pressure	Current draw A	⟷ mm	Rechargeable battery	220 V charger - OPTIONAL
66.446.99	Inflator+deflator	12	156	450	800 mbar (11.7 PSI)	13	180x180x280	No	-
66.447.11	Inflator+deflator	12	156	450	800 mbar (11.7 PSI)	13	180x180x280	Yes	**66.447.22**

66.447.02

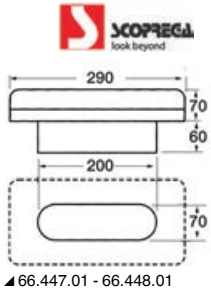
"Turbo Max" Electric inflator pump for dinghies

It inflates and deflates and automatically stops at set pressure. Built-in LED troubleshooting.

Code	Functions	V	W	Flow rate l/min	Max pressure	Current draw A	⟷ mm	Tube
66.447.00	Inflation+deflation	12	540/720	1000	250 mbar (3.6 PSI)	45/60	310x180x190	**66.447.02** Optional
66.448.00	Inflation+deflation	24	700/800	1000	250 mbar (3.6 PSI)	23/26	310x180x190	- Included

66.447.02 *25-mm Ø tube. 25-m roll. OPTIONAL.*

66.447.01 - 66.448.01



66.447.01 - 66.448.01

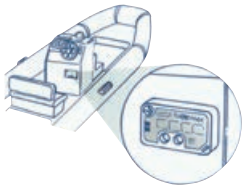
"Turbo Max Kit" Electric inflator pump for dinghies

Fixed version, for recess mounting.
Ideal for installation on the console of the dinghy or near the tender garage.
Inflator/deflator. Automatic stop at the set pressure.

Code	Functions	V	W	Flow rate l/min	Pressure	Current draw A	⟷ mm	OPTIONAL watertight case	OPTIONAL hose
66.447.01	Inflation+deflation	12	540/720	1000	250 mbar (3.6 PSI)	45/60	330x210x230	**66.447.03**	**66.447.02**
66.448.01	Inflation+deflation	24	525/930	1000	250 mbar (3.6 PSI)	25/30	330x210x230	**66.447.03**	**66.447.02**

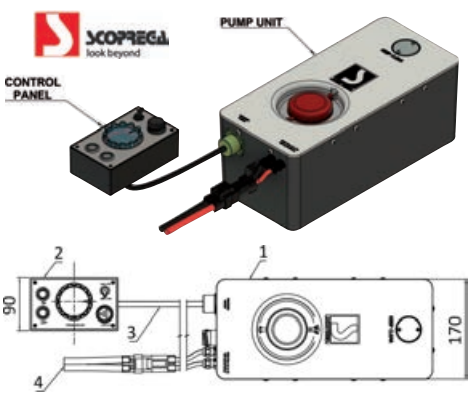
66.447.03 *Watertight case with clear lid for mounting flush with the steering console. Dimensions: 345x220x18 mm. Depth: 130 mm. OPTIONAL.*

66.447.02 *25-mm Ø tube. 25-m roll. OPTIONAL.*



66.447.03

66.447.02



66.447.06

Tubo di collegamento tra pompa e pannello incluso

66.447.07

New — High-pressure electric inflater with GE 22 RC remote-controlled compressor

It consists of a pumping unit to be located in a protected housing and a control panel that can be positioned in a different place depending on your boat (tender garage, stern gangplank, boat deck).

The hose and cables connecting the pump to the panel are included and as long as 5 metres.

The function (inflation/deflation) and the pressure needed can be selected on the control panel, where the inflating mouth is also located.

Connect one end of the inflation hose to the control panel and the other end to the dinghy and press ON to start the pump.

The remote-controlled pump drastically reduces noise during operation.

High-performance pump for fast and high-pressure inflation.
For dinghies, rib, SUP, etc.

Code	Function	V	Current draw A	Flow rate / Pressure Motor 1	Flow rate / Pressure Motor 2	⟷ Pump mm	⟷ Control panel mm	Control panel case OPTIONAL	4-m hose w/ connections OPTIONAL
66.447.05	Inflation + deflation	12	30	250 l/min up to 0.2 bar	120 l/min up to 1.4 bar (20 PSI)	370x170x152	151x90x51	**66.447.06**	**66.447.07**

GE OV6 e GE OV10 electrical inflator

High-performance model able to inflate any dinghy or inflatable structure very rapidly.

Code	Functions	V	W	Flow l/min	Max pressure	Current draw A	⟷ mm	Sand filter
66.446.90	Infaltion + deflation	220	600	1600	175 mbar (2.5 PSI)	2.7	150x160x 170	no
66.446.91	Infaltion + deflation	220	1000	1700	250 mbar (3.6 PSI)	4.5	150x160x 170	yes

BRAVO GE 20-2 electric inflator

Designed to meet all requirements, it inflates at high volume.

Technical specification:
- Ergonomic handle.
- High-efficiency and low-noise electric inflator.
- Double-piston pumping unit.
- Auto stop when selected pressure is reached.
- Fast connection to cigarette lighter plug.
- Battery life LED indicator.
- 12V built-in DC battery rechargeable via cigarette lighter plugs or 110-240 AC/DC transformers.
- Fitted with 12V with battery clips.
- Inflation connectors suitable for the most common valves.

Code	Functions	V	W	Flow l/min	Max pressure	Current draw A	⟷ mm	Sandproof filter
66.449.20	Inflation	12	108	125	1,5 bar (22 PSI)	9	200x320x 220	Yes

GE 230/1000 inflator

Electric pump designed for professional use: manufacturers of inflatables, shipyards, fixing technicians and resellers. High air volume and pressure to quickly inflate any kind of inflatable and/or inflating structure.

Code	Functions	V	W	Flow	Pressure	⟷ cm
66.449.10	Inflation + deflation	230	1100	1500 l/min	3.3 PSI	Ø 165 x 270 h

GE 230/2000 electic inflator pump

It consists of a main motor + booster to increase flow and pressure.
The two motors can work in parallel or the main motor operates alone: this choice is possible by means of the two starting buttons (orange and red).

Code	Functions	V	W		Flow		Pressure		⟷ mm
			Basic	With booster	Basic	With booster	Basic	With booster	
66.446.93	Inflation + deflation	220	1000	2000	1200 l/min	2000 l/min	2 PSI	5 PSI	320x170 x260

► Glues and maintenance products for dinghies

"Rubber Slide"

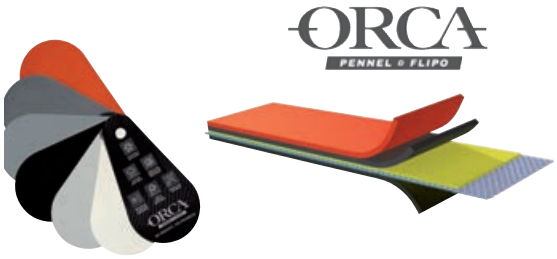
It's a special product designed to restore neoprene on dinghies that are damaged with encrustations; it extends the boat's life; supply with **spray** bottle.

Code	Package
66.458.80	0,75 lt

Rubber Life sealing and restoring liquid

Surface restoring and sealing liquid for neoprene or PVC dinghies.
It makes a clear highly-resistant plastic film. In case of small holes, brush the external part with Rubber Life to easily repair the hole. In case of cuts, apply Rubber Life on the inner part of the cut with a syringe for a tyre-repair effect.

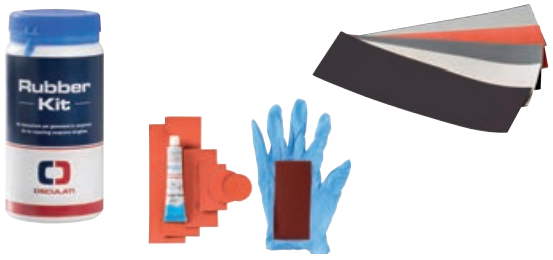
Code	Package	PACKAGE
66.459.00	500 ml	10



Orca R Pennel & Flipo neoprene fabric for making and repair of dinghies

Sold by the linear metre or in 50-m rolls (approx.)
Height of the rolls: 145 cm.

Code	Model	Deniers	Colour
66.245.00	820 1050 GSA	990	Ice White RAL 9003
66.241.00	820 1050 GSA	990	Artic Grey RAL 7035
66.247.00	828 1500 GMS	1100	Neptune grey RAL 7046
66.246.00	820 1050 GSA	990	Black RAL 9004
66.242.00	828 1500 GSM	1100	Orange Silvano



Rubber Kit for repairing neoprene dinghies

Includes: patches of different shapes, 1 special rubber cement tube, sand paper, rubber finger stall, user instructions; **watertight** package.

Code	Colour
66.237.05	Grey RAL 9003
66.237.00	Grey RAL 9001; Artic grey
66.237.06	Neptune grey RAL 7046
66.237.04	Black RAL 9004
66.237.01	Orange

Ultra Professional repair kit for rubber dinghies

- Version **for neoprene dinghies**: 1 x 0.4-kg strong adeprene, 1 x 50-ml activator, 1 brush, 1 Pasteur pipette, 1 measure, 1 broad knife, 1 piece of sand paper, 2 x 100-mm Ø round patches + 3 x 215x145-mm rectangular patches, 1 pair of gloves. All items supplied in carton box.

- Version **for PVC dinghies**: 1 x 0.4-kg PVC adegrip, 1 x 50-ml activator, 1 x 250-ml cleaner 264, 1 brush, 1 Pasteur pipette, 1 measure, 1 broad knife, 2 x 100-mm Ø round patches + 3 x 215x145-mm rectangular patches, 1 pair of gloves. All items supplied in carton box.

For dinghies		Colour
neoprene	PVC	
66.230.03	**66.231.03**	White
66.230.00	**66.231.00**	Grey
66.230.01	**66.231.01**	Black

ADAMPRENE repair kit for inflatables

- **Kit for neoprene inflatables** containing: 125-gr glue with catalizer + **2 x 14.5x21.5-cm neoprene patches** + brush + sand paper + user instructions.

- **Kit for PVC inflatables** containing: 125-gr glue + PVC cleaning product + **2 x 14.5x21.5-cm neoprene patches** + brush + activator + user instructions.

For inflatables		Colour
neoprene	PVC	
66.235.02	-	Orange
66.235.03	**66.234.03**	Icewhite 9003
66.235.00	**66.234.00**	Artic grey 9001
66.235.04	-	Neptune grey 7046
66.235.01	**66.234.01**	Black

Glue for Adeprene fabric made of neoprene and PVC

Adeprene two-components glue. It's the most appreciated glue by dinghy producers.

For dinghies		Activator	Package	
neoprene	PVC			
66.236.01	-	-	30 ml	-
66.236.00	-	-	65 ml	-
66.240.11	**66.240.51**	10 ml	125 ml	-
66.240.10	**66.240.60**	30 ml	500 g	-
66.240.01	**66.240.52**	50 ml	850 g	-
66.240.02	**66.240.53**	160 g	2.000 g	Industrial package

66.240.21 *30-ml spare activator.*

66.240.22 *50-ml spare activator.*

Adeco Cleaner and Thinner for inflatables

Used to clean and brighten the inflatable fabric. To be used before the glue or to dilute it.

For dinghies		Package
neoprene	PVC	
66.235.10	**66.234.10**	250 ml

Pfeiffer is the first world brand in the production of marine anodized aluminium accessories.
With its special production techniques they have been able to offer the best products in the market. Aluminium is combined with magnesium, titanium and beryllium, materials that can only be fused with special techniques, these methods provide high-resistance and light weight. The following anodization is made with a special frost technique at – 20°C, exclusively made by Pfeiffer which gives a surface hardness superior to chrome.

► PFEIFFER sail accessories

Pfeiffer Marine

PFEIFFER Lazy Jack kit

Suitable to pick up the mainsail when downed, the kit includes nylon ropes, 6 blocks, return blocks and 2 **aluminium** jam cleats.

Code	Kit for boats
67.762.00	Up to 30 feet

PFEIFFER mooring cleat

Made of aluminium, very resistant to the marine environment.

Code	Length mm	Height mm	hole center distance mm
67.737.10	160	34	44
67.737.20	220	52	60
67.737.30	260	58	70
67.737.50	300	65	81

PFEIFFER reinforced cleat

for halyards and sheets.

Code	Length mm
67.316.00	100
67.317.00	125
67.319.00	150
67.320.00	175

PFEIFFER tiller locking device

67.760.90 Made of anodized aluminium and stainless steel.
To be installed above of below the helm thus allowing to cleat off a control line placed crosswise the cockpit. It is a cheap option to the automatic pilot.

► LEWMAR Control blocks with stainless ball bearings

LEWMAR

LEWMAR Control blocks adopt a stainless steel ball bearing system that rotates inside a bushing made of the same material to offer high sliding performance. The MRT-Metal Replacement Technology and the accurate design of the composite cheeks provide a weight advantage. The open design allows sand and salt to be flushed out easily, which keeps maintenance simple and your entire operation running a lot smoother. Ideal for reduced loads.

Cleats are designed to bear only manually-applied loads.

LEWMAR Control block (30-40 mm)

Black blocks	Type	Sheave Ø mm	Max working load kg	Breaking load kg	For ropes mm
68.401.31	Single	30	200	480	8
68.402.31	Double	30	300	600	8
68.403.31	Triple	30	500	1000	8
68.404.31	Single with becket	30	200	480	8
68.405.31	Double with becket	30	300	600	8
68.406.31	Triple with becket	30	500	1000	8
68.420.31	Single with upstand	30	300	1000	8
68.441.31	Single, fixed	30	200	480	8
68.414.31	Single, fixed with becket	30	200	480	8
68.410.31	Triple with becket and cam	30	200	480	8
68.463.31	Vertical footblock	30	200	480	8
68.465.31	Pivoting exit block with cam	30	200	480	8
68.440.30	Snatch block	30	120	240	8
68.401.41	Single	40	240	800	10
68.402.41	Double	40	480	1200	10
68.403.41	Triple	40	720	1800	10
68.404.41	Single with becket	40	240	800	10
68.405.41	Double with becket	40	480	1200	10
68.406.41	Triple with becket	40	720	1800	10
68.420.41	Single with upstand	40	240	800	10
68.409.41	Single with becket and cam	40	480	800	10
68.410.41	Triple with becket and cam	40	720	1800	10
68.463.41	Vertical footblock	40	240	800	10
68.440.40	Snatch block	40	180	360	10

LEWMAR Control block (60 mm)

Code	Type	Max working load kg	Breaking load kg	Length mm	g	For ropes max mm
68.460.60	Triple with ratchet, becket and cam	1000	2000	166	538	10

► LEWMAR Synchro blocks

LEWMAR

Simple and reliable blocks engineered for reduced friction, lightweight and resistance. These plain bearing blocks are typically used for heavy and static loads in: halyard tuning, mainsheet systems, mast foot blocks, mast head blocks and boom vang. The composite sheave slides on a synthetic Free-Spin bearing while stainless steel reinforced cheeks prevent ropes from wedging. Practical switch from swivel to fixed shackle. All models are compatible with LEWMAR bases and eyebolts.

LEWMAR Synchro block (50 - 60 - 72 - 90 mm)

Type	50 Ø sheave			60 Ø sheave			72 Ø sheave			90 Ø sheave		
	Code	Max working load	For optimum ropes/max mm	Code	Max working load	For optimum ropes/max mm	Code	Max working load	For optimum ropes/max mm	Code	Max working load	For optimum ropes/max mm
Single	**68.301.51**	450	6/10	**68.301.61**	800	8/10	**68.301.71**	1100	10/12	**68.301.91**	2000	12/14
Single with toggle head	**68.321.51**	450	6/10	**68.321.61**	800	8/10	**68.321.71**	1100	10/12	**-**	-	-
Single with becket	**68.304.51**	450	6/10	**68.304.61**	800	8/10	**68.304.71**	1100	10/12	**68.304.91**	2000	12/14
Double	**68.302.51**	450	6/10	**68.302.61**	800	8/10	**68.302.71**	1100	10/12	**-**	-	-
Double with becket	**68.305.51**	450	6/10	**68.305.61**	800	8/10	**68.305.71**	1100	10/12	**-**	-	-
Triple	**68.303.51**	450	6/10	**68.303.61**	800	8/10	**68.303.71**	1100	10/12	**-**	-	-
Single with becket and cam	**68.309.51**	450	6/10	**-**	-	-	**-**	-	-	**-**	-	-
Triple with becket and cam	**68.310.51**	450	6/10	**68.310.61**	800	8/10	**68.310.71**	1100	10/12	**-**	-	-
Fiddle	**68.331.51**	450	6/10	**68.331.61**	800	8/10	**68.331.71**	1100	10/12	**-**	-	-
Fiddle with cam	**68.337.51**	450	6/10	**68.337.61**	800	8/10	**68.337.71**	1100	10/12	**-**	-	-
Fiddle with becket	**68.334.51**	450	6/10	**68.334.61**	800	8/10	**68.334.71**	1100	10/12	**-**	-	-
Fiddle with becket and cam	**68.339.51**	450	6/10	**68.339.61**	800	8/10	**68.339.71**	1100	10/12	**-**	-	-

LEWMAR Synchro footblock

Code	Type	Sheave Ø	Max working load kg	Breaking load kg	g	Mounting
68.361.61	Single	60 mm	800	1600	162	2 x 8-mm pins
68.364.61	Single with jammer	60 mm	800	1600	190	2 x 8-mm pins
68.361.71	Single	72 mm	1200	2400	229	2 x 8-mm pins
68.364.71	Single with jammer	72 mm	1200	2400	250	2 x 8-mm pins
68.361.91	Single	90 mm	2000	4000	430	2 x 10-mm pins

LEWMAR Synchro quick-release snap shackle

Designed for Synchro control blocks, it turns any block with shackle into a an easily removable block. 100% stainless steel.

Code	For blocks mm	Max. working load kg	Breaking load kg	Pin Ø mm
68.940.50	50	450	900	4
68.940.60	60	800	1600	5
68.940.72	72	1100	2200	6
68.940.90	90	2000	4100	9.5

► LEWMAR HTX aluminium blocks

LEWMAR

LEWMAR HTX block (50 - 60 - 72 - 90 mm)

This range of control blocks features high load performance and reduced friction, and received several rave reviews even before its official launch.
Strong aluminium side cheeks ensure optimum load distribution and align the rope in case of offset load or wrong working angles.
Much higher load resistance with the same diameter.
Side thrust Torlon ball bearings.

Type	50 Ø sheave			60 Ø sheave			72 Ø sheave			90 Ø sheave		
	Code	Max working load	For ropes max	Code	Max working load	For ropes max	Code	Max working load	For ropes max	Code	Max working load	For ropes max
Single with upstand	**68.600.50**	800	10	**68.600.60**	1100	12	**68.600.72**	2000	14	**68.600.90**	3500	16
Single	**68.601.50**	800	10	**68.601.60**	1100	12	**68.601.72**	2000	14	**68.601.90**	3500	16
Double	**68.602.50**	800	10	**68.602.60**	1100	12	**68.602.72**	2000	14	**-**	-	-
Triple	**68.603.50**	800	10	**68.603.60**	1100	12	**-**	-	-	**-**	-	-
Single with becket	**68.604.50**	800	10	**68.604.60**	1100	12	**68.604.72**	2000	14	**68.604.90**	3500	16
Double with becket	**68.605.50**	800	10	**68.605.60**	1100	12	**-**	-	-	**-**	-	-
Single with toggle head	**68.621.50**	800	10	**68.621.60**	1100	12	**68.621.72**	2000	14	**-**	-	-
Single with becket and cam	**68.609.50**	800	10	**-**	-	-	**-**	-	-	**-**	-	-
Triple with becket and cam	**68.610.50**	800	10	**68.610.60**	1100	12	**-**	-	-	**-**	-	-
Fiddle	**68.631.50**	800	8	**68.631.60**	1100	10	**68.631.72**	2000	12	**-**	-	-
Fiddle with becket and cam	**68.639.50**	800	8	**68.639.60**	1100	10	**68.639.72**	2000	12	**-**	-	-

◢ 68.601.xx (Single)

◢ 68.602.xx (Double)

◢ 68.603.xx (Triple)

◢ 68.604.xx (Single with becket)

◢ 68.605.xx (Double with becket)

◢ 68.609.xx (Single with becket and cleat)

◢ 68.610.xx (Triple with becket and cleat)

◢ 68.621.xx (Single with toggle head)

◢ 68.631.xx (Fiddle)

◢ 68.639.xx (Fiddle with becket and cleat)

◢ 68.600.xx (Single with upstand)

► LEWMAR snatch blocks

LEWMAR

LEWMAR snatch block

Opening snatch blocks with soft, synthetic rubber cheeks to protect the deck and Synchro quick-release snap shackle. Ideal for general spinnaker use and to resist rough treatment.

Code	Max working load kg	Max rope Ø mm	Sheave	
			Ø mm	Material
68.906.01	1135	14	66	Delrin
68.906.02	1590	16	80	Delrin
68.906.03	2155	16	80	Aluminum
68.906.05	4000	22	125	Aluminum

► LEWMAR Racing and Racing High Load blocks

Designed to offer incredible strength to weight ratios. With anodized aluminium cheeks, the High Load version has machined aluminium sheaves running on Torlon needle rollers and Delrin ball bearings. Diameters up to 250 mm available on request.

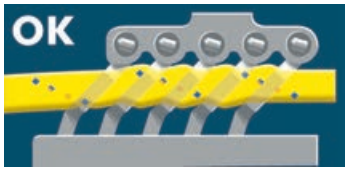
LEWMAR Racing block (60 mm)

Code	Type	Max working load kg	Max rope Ø mm	Length mm	g
68.511.60	High Load Single	800	12	123	158
68.512.60	High Load Double	1400	12	132	320
68.500.60	Single with upstand	800	12	123	283

LEWMAR Racing block (80 mm)

Code	Type	Max. working load kg	Max rope Ø mm	Length mm	g
68.511.80	Single	1000	12	152	251
68.514.80	Single with becket	1000	12	177	278
68.512.80	Double	1800	12	160	487
68.501.80	High load single	2400	14	155	337
68.502.80	High load double	3400	14	174	655
68.500.80	Single with upstand	2400	14	155	518

► LEWMAR rope clutches



An innovative patented system adopting a unique grip pattern of dominoes that has a series of **5 in-line and parallel rings** hinged at the base. The rope is run through these rings. The greater holding surface area holds the rope under load **without fraying** and provides **controlled release even at full holding load**.

LEWMAR D1 clutch

For low loads.

Type			For ropes	Max holding load kg	Bore centre distance mm
Single	Double	Triple			
68.611.08	**68.612.08**	**68.613.08**	6-8	500	79
68.611.10	**68.612.10**	**68.613.10**	8-10	500	79

LEWMAR D2 clutch

For high loads.

Type			For ropes	Max holding load kg	Bore centre distance mm
Single	Double	Triple			
68.614.10	**68.624.10**	**68.634.10**	8-10	1200	107
68.614.12	**68.624.12**	**68.634.12**	10-12	1200	107
68.614.14	**68.624.14**	**68.634.14**	12-14	1200	107

► LEWMAR cam cleats

LEWMAR cam cleat

Made from state-of-the-art materials, Lewmar cleats enhance performance in durability, strength and lubrication. Cams slide on nylon ball bearings and are made of long-fibre-reinforced polymers.

Cleat	Fairlead	Bore centre distance mm	For ropes	Max working load kg
68.610.27	**68.610.04**	27	2-8	120
68.610.38	**68.610.14**	38	4-12	180

► LEWMAR deck organiser

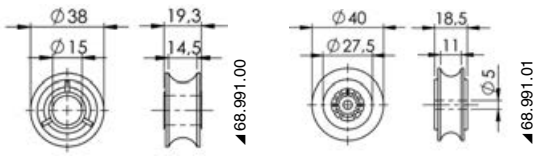
LEWMAR Ocean deck organiser

40-mm sheave. 10-mm max Ø ropes. Anodized aluminium frame, acetal sheaves on steel bushings. Stackable version.

Code	Type	Max working load kg	Length mm	Mounting
68.991.22	2 sheaves	1000	123	2 x 8-mm pins
68.991.23	3 sheaves	1500	206	3 x 8-mm pins
68.991.24	4 sheaves	2000	275	4 x 8-mm pins
68.991.25	5 sheaves	2500	352	5 x 8-mm pins

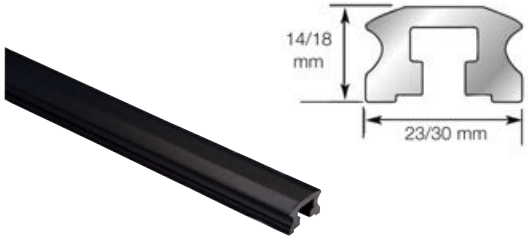
LEWMAR spare sheave for deck organisers

Code	Material	Ø mm	Type	Max. working load kg	For deck organizer
68.991.00	acetal	40	Simple	610	Ocean 40 mm
68.991.01	nylon	40	On ball bearings	350	Racing 40 mm



► LEWMAR NTR tracks and cars

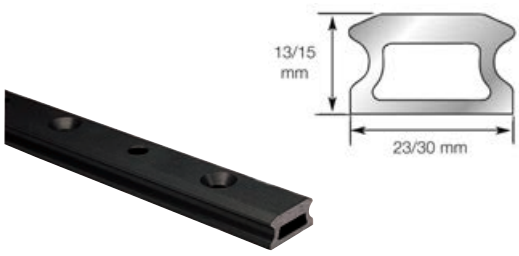
Features:
- Broad range for 6- to 21-m cruising and racing yachts.
- Simple installation.
- Cars available in several versions: rod cars, on Derlin or Torlon ball bearings.
- Rod cars can switch to ball bearing cars for easier sliding.
- Aluminium end stops for excellent resistance and accuracy.



LEWMAR sliding bolt track

Sliding bolt track available in size 1 and 2, and featuring what follows: Size 1 is made from a smooth and clean profile, with hidden joints; Size 2 allows to retrofit the new track to the deck using the original bolt holes therefore there's no need to worry about the correspondence with the centre distance of the previous bores.
Size 1: for boats up to 10 m, 900-kg max working load.
Size 2: for boats up to 14 m, 1500-kg max working load.

Code	For Lewmar cars	⟷ mm			Working load max kg	Mounting
		Width	Height	Length		
68.746.01	Size 1	23	14	3000	900	M6 bolts
68.746.02	Size 2	30	18	3000	1500	M8 bolts



LEWMAR drilled track

Regularly used for thru-hull fixing on the deck but also when using cars with plunger.
Available in several lengths and sizes. 100-mm centre distance.
Size 1: for boats up to 10 m, 900-kg max working load.
Size 2: for boats up to 14 m, 1500-kg max working load.

Code	For Lewmar cars	⟷ mm			Max working load kg	Mounting
		Width	Height	Length		
68.741.01	size 1	23	13	1526	900	M6 bolts
68.743.01	size 1	23	13	3026	900	M6 bolts
68.741.02	size 2	30	15	1532	2000	M8 bolts
68.743.02	size 2	30	15	3032	2000	M8 bolts

LEWMAR NTR mainsheet car on Torlon balls

Available in 2 sizes:
- **Size 1**: for boats up to 10 meters, 900-kg max working load
- **Size 2**: for boats up to 14 meters, 1500-kg max working load

Description	Size 1	Length mm	Size 2	Length mm
With shackle	**68.710.01**	162	**68.710.02**	210
With shackle and control line sheaves	**68.711.01**	162	**68.711.02**	210
With shackle and double control line sheaves	**68.712.01**	162	**68.712.02**	210
With upstand	**68.720.01**	162	**68.720.02**	210
With upstand and control line sheaves	**68.721.01**	162	**68.721.02**	210
With upstand double control line sheaves	**68.722.01**	162	**68.722.02**	210
With upstand, control line sheaves and becket	**68.723.01**	162	**68.723.02**	210
With upstand, double control line sheaves and becket	**68.724.01**	162	**68.724.02**	210
With upstand, double control line sheaves and cleat	**68.725.01**	162	**68.725.02**	210
With bigger upstand and double control line sheaves	**68.714.01**	162	-	-

68.710.01/02

68.711.01/02

68.712.01/02

68.720.01/02

68.721.01/02

68.722.01/02

68.723.01/02

68.724.01/02

68.725.01/02

68.714.01

LEWMAR NRT Genoa car on Torlon balls/rod

Available in 2 sizes:
- **Size 1**: for boats up to 12 meters, 900-kg max working load
- **Size 2**: for boats up to 16 meters, 1500-kg max working load

Description	Size 1	Length mm	Size 2	Length mm
On balls with single control line sheave (RIGHT car)	**68.730.01**	162	**68.730.02**	210
On balls with single control line sheave (LEFT car)	**68.731.01**	162	**68.731.02**	210
On rod with end stop	**68.734.01**	148	**68.734.02**	194

68.730-731.01/02

68.734.01/02

LEWMAR end stop

Available in 2 sizes:
- **Size 1**: for all Lewmar tracks size 1.
- **Size 2**: for all Lewmar tracks size 2.

Type	Size 1	Rope max Ø	Length mm	Size 2	Length mm	Rope max Ø
Aluminium without sheave	**68.770.01**	-	47	**68.770.02**	105	-
Aluminium with single sheave	**68.771.01**	8	47	**68.771.02**	105	10
Aluminium with double sheave	**68.772.01**	8	75	**68.772.02**	105	10
Aluminium with single sheave and becket	**68.773.01**	8	47	**68.773.02**	105	10
Aluminium with double sheave, becket and cleat	**68.774.01***	8	75	**68.774.02***	105	10
Adjustable end stop for cars	**68.785.01**	-	43	**68.785.02**	87	-
Nylon end stop without sheave	**68.786.01**	-	-	**68.786.02**	-	-

* *Both items are sold in pairs*

68.770.01/02

68.771.01/02

68.772.01/02

68.773.01/02

68.774.01/02

68.785.01/02

68.786.01/02

68.781.01-02

68.782.01-02

68.783.01-02

68.791.01/02

LEWMAR accessories for NTR cars

Available in 2 sizes:
- **Size 1**: for all Lewmar tracks size 1.
- **Size 2**: for all Lewmar tracks size 2.

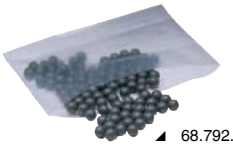
Description	Size 1	Max working load kg	Size 2	Max working load kg
Becket kit (2 pcs)	**68.781.01**	585	**68.781.02**	750
Single sheave (2 pcs)	**68.782.01**	585	**68.782.02**	750
Double sheave (2 pcs)	**68.783.01**	585	**68.783.02**	750
Cleats with plates (2 pcs)	**68.784.01**	180	**68.784.02**	180
Upstand for blocks	**68.791.01**	900	**68.791.02**	1500
Double sheave, becket and cleat kit	**68.787.01**	585	**68.787.02**	750

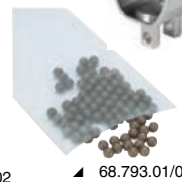
68.784.01-02

68.787.01/02

68.790.01

68.780.01


68.792.00/01/02


68.793.01/02/03

LEWMAR spare parts for cars

Code	Description	For LEWMAR cars	Ø mm
68.792.00	Delrin balls (100 pc)	Size 0	4.6
68.792.01	Delrin balls (100 pc)	Size 1	6.4
68.793.01	Torlon balls (100 pc)	Size 1	6.4
68.793.02	Torlon balls (100 pc)	Size 2	7.8
68.793.03	Torlon balls (100 pc)	Size 3	9.5
68.790.01	Caps for Ocean cars	Size 1	-
68.790.02	Caps for Ocean cars	Size 2	-
68.780.01	NTR Genoa car sheave	Size 1	-

► LEWMAR Genoa cars

LEWMAR

68.732.01/02

68.743.32

68.786.32

LEWMAR Genoa T-Track car

32-mm T-Track running on sliding blocks and fitted with end stop.

Code	Description	Size	Max. working load kg	Length mm
68.732.01	Genoa car with end stop	For boats up to 12 m	900	111
68.732.02	Genoa car with end stop	For boats up to 16 m	1500	120
68.743.32	3-m track	One size	-	3000
68.786.32	Simple nylon end stop	One size	-	-

► LEWMAR Evo winches

LEWMAR

LEWMAR Evo self-tailing winch

An evolution of the excellent products of the Ocean series, the Evo winch series features several improvements allowing to offer a **smaller size** winch with equal strength and the **same excellent grip** without saving on materials. To be installed with pins or studs. Available in manual, electric and/or hydraulic version. **7-year warranty.**

Model	Aluminium drum		kg	Chromed bronze drum	kg	Handle/drum rev. ratio		Transmitted/applied power ratio		Base Ø mm	Height mm	Rope Ø mm
	grey*	black				1	2	1	2			
15ST	**68.103.15**	**68.104.15**	2.3	**68.113.15**	3.9	2.0:1		15.8:1		121	115	6 - 10
30ST	**68.103.30**	**68.104.30**	4.2	**68.113.30**	5.6	2.0:1	4.2:1	13.8:1	29.2:1	138	146	8 - 12
40ST	**68.103.40**	**68.104.40**	4.9	**68.113.40**	6.5	1.9:1	5.8:1	13.2:1	40.2:1	148	158	8 - 12
45ST	**68.103.45**	**68.104.45**	7.2	**68.113.45**	9.7	2.4:1	7.6:1	13.9:1	44.8:1	168	178	8 - 14
50ST	**68.103.50**	**68.104.50**	8.8	**68.113.50**	12.1	2.6:1	13.9:1	13.9:1	48.6:1	181	197	8 - 14
55ST	**68.103.55**	**68.104.55**	12	**68.113.55**	17	2.8:1	13.8:1	13.8:1	54.0:1	205	237	8 - 16

* *Material to be ordered. Approx. lead time: 6 weeks.*

► LEWMAR Ocean winches

LEWMAR

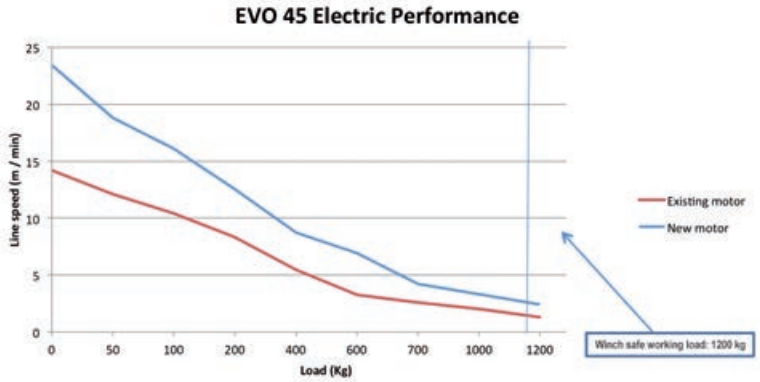
LEWMAR Ocean winch

LEWMAR standard winches are a point of reference in technological innovation designed to provide high performance and unmatched durability. Fitted with anthracite anodized aluminium drum.

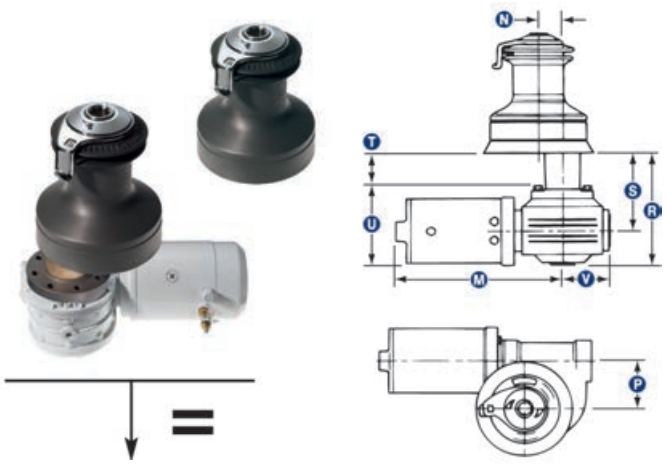
Code	Model	Speed	Handle/drum rev. ratio	Power ratio	kg	Base Ø mm	Mounting
68.101.06	6	1	1:1	6,8:1	0.5	94	4 x M6 screws
68.101.08	8	1	1:1	7,9:1	1.4	108	5 x M6 screws
68.101.16	16	2	1:1	16:1	2.1	120	5 x M6 screws

LEWMAR oversized gearmotor

68.142.12 Boosted motor for EVO 45 and 50 winches: the power switches from 700W to 1000W.
The new motor powers higher pull capacities and faster line speeds.
Ideal for 2:1 mainsail halyards, oversized masts, Gennaker and Code 0.



► LEWMAR electric self-tailing winches and manual-to-electric conversion kits



LEWMAR electrical winches include: self-tailing winch + power drive connection + motor gearbox + solenoid or control unit + switch.

LEWMAR electric winches can be operated by a simple solenoid (E series) or by a complex control unit (ELS series) featuring what follows: a slow start to avoid jerks, power cut-out when the winch reaches its working load limit, rotation speed automatic slowdown as the working load increases to allow for a precise setting of the sails.
A **complete electrical winch** includes: self-tailing winch + power drive connection + motor gearbox + solenoid or control unit + switch.

All LEWMAR Ocean self-tailing winches (from size 34 upwards) can be easily converted into electric by means of a special conversion kit that keeps the winch manual operation characteristics unaltered.
To turn a manual winch into electric the following is needed: power drive connection + motor gearbox + solenoid or control unit + switch.

Model	M	N	P	R	S	T	U	V
Ocean 34	238.5	38.1	50	151	100.5	34.4	120.7	72.5
Ocean 40 - Evo/Evo Race 40	238.5	38.1	50	151	100.5	34.4	120.7	72.5
Ocean 46 - Evo/Evo Race 45	238.8	41.8	50	181	130.5	64.4	120.7	72.5
Ocean 48 - Evo/Evo Race 50	238.5	44.3	50	181	130.5	64.4	120.7	72.5
Ocean 50 - Evo/Evo Race 55	290	48.5	62	198.5	138.5	59.5	160	80
Ocean 54	290	48.5	62	198.5	138.5	59.5	160	80

LEWMAR power drive connection

This base is used under the winch to provide a connection between the electric motor and the primary gearing of the winch.

Code	For winch model
68.121.34	34ST Ocean
68.121.40	40ST Ocean
68.121.44	44ST Ocean
68.121.46	46ST Ocean
68.121.48	48ST Ocean
68.121.50	50ST Ocean

Code	For winch model
68.121.54	54ST Ocean
68.121.41	40ST Evo/Evo Race
68.121.45	45ST Evo/Evo Race
68.121.51	50ST Evo/Evo Race
68.121.55	55ST Evo/Evo Race

LEWMAR motor gearbox

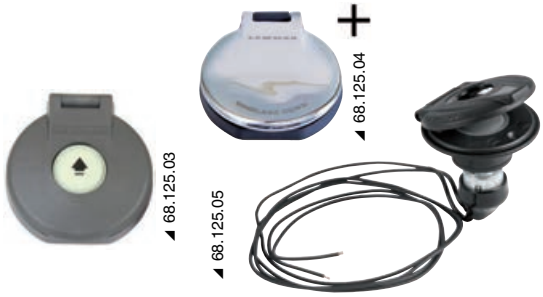
Electric motor and work gearbox to be mounted on the lower side of the power driving connection.

12 V	24 V	For winch model	W
68.122.12	-	OCEAN 34-40-44-46-48 + EVO/EVO Race 40-45-50	700
68.142.12	-	EVO 45-50 – oversized and prewired gear box with E version solenoid (fitted with management elctronics)	1000
68.132.12	**68.132.24**	OCEAN 50-54 + EVO/EVO Race 55	700

LEWMAR electric control unit

Available in two models: E series with simple soleniod which sends an ON-OFF impulse or ELS series with control unit to control speed and protect against overload.

12 V	24 V	For winch model	Version
68.123.12	-	OCEAN 34-40-44-46-48 + EVO/EVO Race 40-45-50	E
68.124.01	-	OCEAN 40 + EVO/EVO Race 40	ELS
68.124.48	-	OCEAN 48 + EVO/EVO Race 50	ELS
68.124.50	**68.134.50**	OCEAN 50 + EVO/EVO Race 50	ELS
68.134.55	**68.124.05**	OCEAN 54 + EVO/EVO Race 55	ELS



LEWMAR electric switch

Made of composite material, fully watertight for deck mounting, fitted with opening lid.

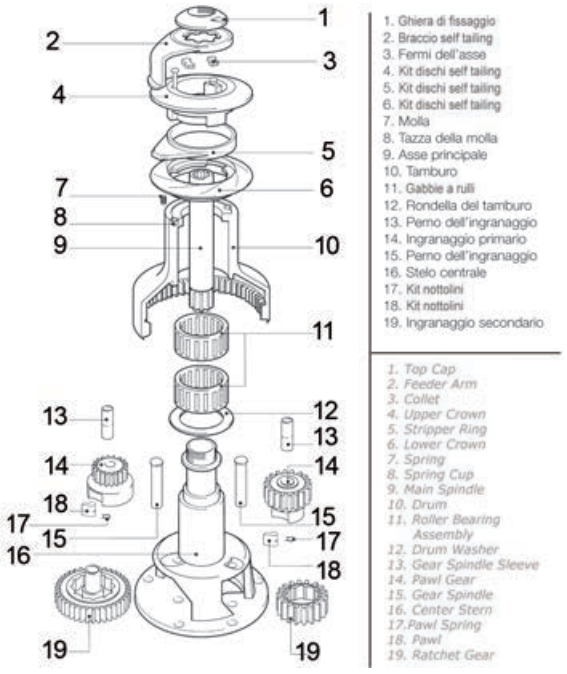
Code	For winch	Version	Contact type	Outer Ø mm	Bore Ø mm
68.125.03	All models	Simple	Blade	80	8
68.125.04	All models	SS lid	Blade	80	8
68.125.05	All models	Simple	Microswitch	75	46

► LEWMAR winch exploded view drawing

LEWMAR

What's inside a LEWMAR winch?

Caratteristiche: *Features:*
- Ampia gamma */Broad Range*
- Massima potenza della categoria */Most powerful in class*
- Facilità di montaggio */Easy fitting*
- Semplicità di manutenzione */Simple servicing*
- Self-tailing Wavespring */Wavespring Self-Tailer*
- Tamburo a facile presa */Needle peen drum*
- Rete di assistenza */Service network*
- Garanzia totale */Fully guaranteed*



► LEWMAR winch spare parts

LEWMAR

A maintenance kit is available for each LEWMAR winch. Parts are not sold separately.

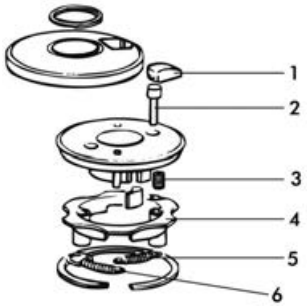
LEWMAR spare parts for EVO self-tailing winch

For Winch model	Feeder arm - 2	Collet kit - 3	Gear spindle - 11	Top cap - 1	Pawl kit - 18	Drum - 5
15ST	68.854.01	68.851.01	68.950.01	68.850.01	68.915.01	68.957.01
30ST	68.854.02	68.851.01	68.950.01	68.850.02	68.915.01	68.957.02
40ST	68.854.02	68.851.01	68.950.01	68.850.03	68.915.01	68.957.02
45ST	68.854.03	68.851.01	68.950.01	68.850.04	68.915.01	68.957.03
50ST	68.854.04	68.851.01	68.950.03	68.850.05	68.915.01	68.957.04
55ST	68.854.05	68.851.01	68.950.03	68.850.06	68.915.02	68.957.05

LEWMAR spare parts for Ocean self-tailing winch

For winch model	Feeder arm - 2	Central collets - 3	Roller bearing assembly - 11	Top cap - 1	Upper/lower crown and stripper ring - 4-5-6	Pawls - 18	Stripper ring - 5
16ST	68.954.01	68.951.01	68.950.01	68.952.01	68.953.01	68.915.01	68.956.01
28ST	68.954.02	68.951.01	68.950.01	68.952.02	68.953.02	68.915.01	68.956.02
30ST	68.954.03	68.951.01	68.950.01	68.952.02	68.953.02	68.915.01	68.956.02
34ST	68.954.04	68.951.01	68.950.01	68.952.02	68.953.03	68.915.01	68.956.02
40ST	68.954.05	68.951.01	68.950.01	68.952.02	68.953.03	68.915.01	68.956.02
44ST	68.954.06	68.951.01	68.950.02	68.952.02	68.953.04	68.915.01	68.956.03
46ST	68.954.13	68.951.01	68.950.02	68.952.02	68.953.04	68.915.01	68.956.03
48ST	68.954.07	68.951.01	68.950.03	68.952.02	68.953.05	68.915.01	68.956.04
50ST	68.954.08	68.951.01	68.950.03	68.952.02	68.953.06	68.915.02	68.956.05
54ST	68.954.09	68.951.01	68.950.03	68.952.02	68.953.06	68.915.02	68.956.05
58ST	68.954.10	68.951.01	68.950.03	68.952.03	68.953.07	68.915.02	68.956.06
64ST	68.954.11	68.951.01	68.950.03	68.952.03	68.953.07	68.915.02	68.956.06
65ST	68.954.12	68.951.01	68.950.03	68.952.03	68.953.07	68.915.02	68.956.06

The spare parts above are for winches of the Ocean series made after year 1992. The year is indicated on the drum top cap.



LEWMAR spare parts for 3-speed winches

Code	Type of spare part
68.955.01	Spring support ring for third speed (4)
68.955.02	Stainless steel pin for third speed coupling (2)
68.955.03	Return spring for pin (3)
68.955.04	Ring holding spring (5)
68.955.05	Button for third speed coupling (1)
68.955.06	Mounting pin inside the holding spring (6)

LEWMAR stripper ring for Evo winches

Only for Evo series winches produced from 2011 on (item 5 on drawing “What’s inside a LEWMAR winch?”).

Code	Type
68.957.01	Evo 15
68.957.02	Evo 30 / 40
68.957.03	Evo 45
68.957.04	Evo 50
68.957.05	Evo 55

► LEWMAR winch handles

LEWMAR

LEWMAR standard ball bearing handle

Available in several versions, materials and with Power Grip handle to make two-handed grip easier when subjected to maximum stress.

Length mm		Model
200	250	
68.201.20	**68.201.25**	Made of aluminium, fitted with lock
-	**68.211.25**	Made of chromed bronze, fitted with lock

LEWMAR OneTouch ball bearing handle

DAME AWARD 2006

The patented and innovative OneTouch mechanism allows to lock in and remove the winch handle with one hand. Simply squeeze the release lever, which runs the entire length of the handle, and pull to unlock in one quick and easy motion. Available in PowerGrip version to make two-handed grip easier when subjected to maximum stress.

Code	Length mm	Model
68.221.25	250	aluminium
68.222.25	250	aluminium, with PowerGrip

LEWMAR winch handle pocket

68.201.00 Made of UV-resistant PVC, it is highly weatherproof. Rear bulkhead mounting and drain.

LEWMAR Titan floating winch handle

The Titan floating winch handle has been designed to combine lightweight and resistance to saltwater environments. Made with high quality materials. Available in two versions: Primary floating handle for pleasure boats and Magnum ball bearing handle for racing boats.

Length mm		Description	Colour
Primary 200	Magnum 250		
68.231.20	**68.231.25**	Primary with lock	Red

LEWMAR accessories for periodic maintenance

Code	Description
68.915.01	6 x standard pawls for winch 5-48 and 66 + 12 pawl springs
68.915.02	6 x large pawls for winch 50-65 + 12 pawl springs
68.910.00	Water-resistant grease for gears, 100-g package
68.916.00	High-viscosity lubricant for applications where grease is not recommended, 55-ml package
68.915.00	Winch maintenance pack including service manual, oil bottle, grease tube, brush and 10 pawl springs

◢ 68.910.00

◢ 68.916.00

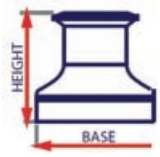
◢ 68.915.00

◢ 68.915.01/02

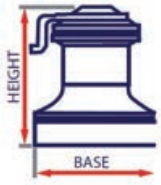
Winch cover

Made of Sunbrella water- and UV-resistant fabric. Elastic fastening for snug fit.

Code	Winch type	Max height mm	Max base mm	Colour	Style
68.098.01	Standard	130	140	Blue	Style A
68.098.02	Standard	145	140	Blue	Style A
68.098.05	Self-tailing	160	145	Blue	Style B
68.098.06	Self-tailing	180	150	Blue	Style B
68.098.07	Self-tailing	200	170	Blue	Style B
68.098.08	Self-tailing	215	190	Blue	Style B
68.098.09	Self-tailing	230	200	Blue	Style B
68.098.10	Self-tailing	250	205	Blue	Style B
68.098.11	Self-tailing	280	270	Blue	Style B
68.098.12	Self-tailing	315	290	Blue	Style B



◢ Style A



◢ Style B

► LEWMAR Accessories for steering systems

LEWMAR

Compact folding wheels

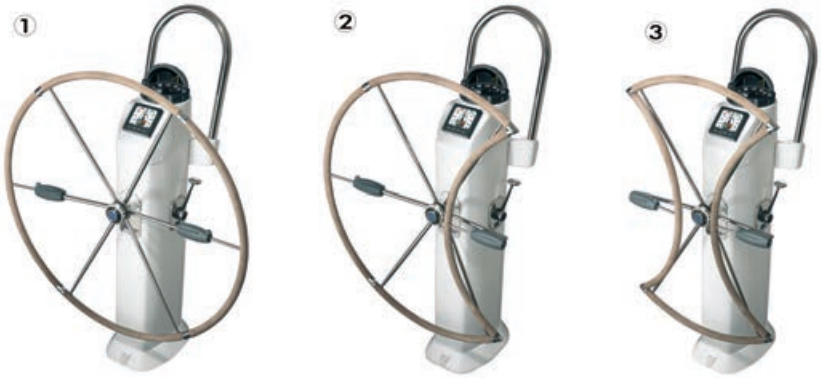
Quick folding system.

Traditional wheels take much room in the cockpit.

Lewmar folding wheels prevent this issue. Ideal for a wide range of yachts, including those with double wheels.

Folding wheels take less than half the space in comparison with their competitors.

The stainless steel hinges make them very rigid for navigation, whereas the composite handles make the handling very easy with quick wheel opening/closing.



Code	Model	Ø cm
69.101.40	Folding	101
69.101.36	Folding	91

Other sizes available on request

Wheel brake spinner LEWMAR

AISI 316

To be installed on any Lewmar steering system; locks the steering system, made of mirror polished stainless steel, available in 2 versions depending on the wheel used.

Code	For wheels
69.911.00	Folding Commodore (single wheel spoke)
69.911.01	Mini Maxi and Fastnet (twin wheel spoke)

Quick release nut for Commodre wheels LEWMAR

69.812.01 Can quickly remove the wheel from the bollard with just one winch handle movement; made of mirror polished AISI 316 stainless steel, upon request also available in Mini, Maxi or Fastnet versions.

Pipe wheel carrier LEWMAR

69.811.00 Can be used on most boats, designed to fit the steering wheel onto the pulpit after removing it from the bollard.
- Made of die-cast AISI 316 stainless steel; - Designed for steering wheels with conical or parallel hubs size of 1"; - Suitable for pipes with diameters of 25.4 mm, 28.6 mm or 32 mm

Engine control with single lever LEWMAR

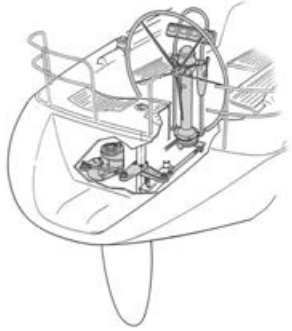
AISI 316

69.810.00 Designed exclusively for Lewmar, this engine control system has magnetic features, therefore can be mounted onto the bollard or onto the bulkhead without interfering with the compass; made of AISI 316 stainless steel, fitted with straight lever and idle button.

Maintenance kit for Lewmar engine levers LEWMAR

69.910.00 In addition to the cable terminals includes a spare idle button with respective pin.

LEWMAR



Engine unit with autopilot LEWMAR

Designed in collaboration with shipyards in order to resolve issues concerning the correct functioning of the autopitol and to ease the installation.
1) All units are fitted with a electro-mechanical friction system that eliminates almost all the system resistance when not in used
2) All units are compatible with most AP electronic products, like Raymarine, B&G and Simrad
3) All the engine units have a low power absorption
4) Availability of engine units with power equal to 1/4, 1/2 and 1 CV suitable for all types of Lewmar steering systems.

Code	Suitable for installation on
69.310.01	Bavaria 30, 33, 37 and 39 cruising
69.310.02	Bavaria 40, 42, 44, 46, 49 and 50 cruising - Dufour Gib Sea 43 - Hallberg Rassy 46, 48 e 53 (12V) - Hanse 461 - Hunter 49 - Najad 460, 490 and 511
69.320.01	Dufour 34
69.320.02	Dufour 40 and 44

► ARC teak object holders

ARC soap dish

Shell shape.

Code	⟷ WxDxH mm
71.370.70	180x90x35

ARC soap dish

Fitted with removable tray.

Code	⟷ WxDxH mm
71.602.08	120x80x25

ARC towel holder

Code	⟷ Ø mm
71.602.76	170

ARC toilet paper holder

Code	⟷ WxDxH mm
71.602.48	175x100x112

ARC container for shower items

Fitted with lower removable grate for cleaning.

Code	⟷ WxDxH mm
71.328.20	265x108x120

ARC toothbrush/glass holder

Code	⟷ mm
71.602.09	206x89x37

ARC triangular grating for shower accessories

Code	⟷ WxDxH mm
71.602.13	250x250x17

ARC towel bar

Code	⟷ WxDxH mm
71.602.71	250x60x25
71.602.72	350x60x25
71.602.74	580x60x25

ARC plate rack, mug holder (stackable), kitchen towel holder

Code	⟷ WxDxH mm
71.602.01	490x106x425

ARC plate rack, mug (stackable) and cutlery holder

Code	⟷ mm
71.602.05	395x152x282

ARC plate and mug (stackable) holder

Code	⟷ WxDxH mm
71.602.03	490x106x228
71.602.04	312x108x250

ARC mug holder (stackable)

Holds 4 mugs.

Code	⟷ WxDxH mm
71.602.06	212x103x250

ARC plate rack

Holds 12 plates.

Code	⟷ WxDxH mm
71.601.99	285x95x260

ARC can and accesory holder

Sall mounting.

Code	⟷ WxDxH mm
71.602.00	316x101x254

ARC can/mug holder

Code	⟷ mm	Bore Ø cm
71.371.10	125x115x100	8

ARC 3-slot mug holder

Code	⟷ WxDxH mm
71.371.20	295x100x90

ARC bottle rack

Wall mount, holds 2 bottles.

Code	⟷ WxDxH mm
71.602.20	260x115x105

ARC bulkhead mount bottle rack

Holds 4 bottles.

Code	⟷ mm
71.602.22	560x115x105

ARC bulkhead-mount glass holder

Inner diameter of glass holder: 72 mm.

Code	N. glasses	⟷ WxDxH mm
71.602.10	2	275x87x90
71.602.12	4	425x87x90
71.602.14	6	600x87x90

ARC cutlery holder

Code	⟷ WxDxH mm
71.602.15	150x80x210

Nespresso ARC coffee capsule holder

Code	⟷ WxDxH mm
71.602.18	140x16x310

ARC grating countertop

Code	⟷ WxD mm
71.324.10	150x150
71.324.20	200x200

ARC glass/can holder

Bulkhead mounting, foldable.

Code	Ø mm	⟷ LxH cm
71.305.10	70	13x11

ARC pot/spice holder

Code	⟷ WxDxH mm
71.602.07	350x90x65

ARC paper towel holder with spice container

Code	⟷ WxDxH mm
71.602.66	327x90x250

ARC kitchen paper holder

Code	⟷ WxDxH mm
71.602.64	310x97x90

ARC container

Code	⟷ WxDxH mm
71.519.00	290x83x55

ARC container

Code	⟷ WxDxH mm
71.517.00	300x700x850

ARC compact object holder

Code	⟷ WxDxH mm
71.208.71	280x100x105

ARC chopping board

Code	⟷ WxD mm
71.602.99	200x275

ARC multipurpose container

Code	⟷ WxDxH mm
71.513.00	500x100x100
71.514.00	250x100x100

ARC multipurpose object holder

Code	⟷ WxDxH mm
71.326.50	180x60x75
71.326.60	335x64x75

ARC binocular/object holder

Code	⟷ WxDxH mm
71.603.04	250x95x200

ARC magazine rack

Code	⟷ WxDxH mm
71.605.10	265x110x280

ARC book holder

Code	⟷ WxDxH mm
71.602.30	375x190x200
71.350.10	466x241x106

ARC book shelf

Code	⟷ WxDxH mm
71.350.00	382x150x131

ARC flag container

Code	Version
71.010.00	For 40 codes, 5 courtesy, includes national flag, cm 41x31x10,5
71.009.00	For 7 various types, includes national flag, cm 26x11x10,5

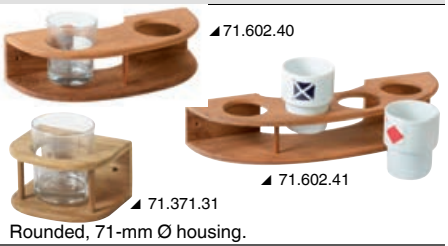
ARC container

Code	⟷ WxDxH mm
71.515.00	180x50x100

ARC plotting instrument holder

Code	⟷ WxDxH mm
71.605.50	435x100x150

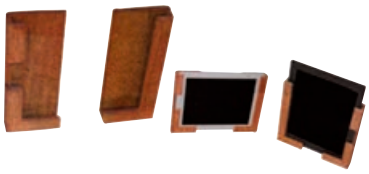
ARC wall mounting glass holder



Rounded, 71-mm Ø housing.

Code	No of glasses	⟷ WxDxH mm
71.371.31	1	130x102x74
71.602.40	2	306x125x74
71.602.41	4	452x145x74

ARC tablet stand



Code	⟷
71.327.11	Universal for all models

ARC pencil/compass holder

Code	⟷ WxDxH mm
71.602.33	115x25x75

ARC “Mini Compass” holder

Code	⟷ WxDxH mm
71.305.00	110x57x106

ARC GPS holder

Code	⟷ WxDxH internal mm
71.327.10	78x36x77

ARC radio VHF and cell phone holder

Code	⟷ WxDxH internal mm
71.603.15	132x43x73

ARC fishing rod holder

Fitted with screw-in support.

Code	N. rod
71.606.13	4

► ARC teak accessories

ARC handrail with rounded edges

Height 60 mm, Width 27 mm.

Code	N° passages	Width mm
71.601.01	1	325
71.601.02	2	545
71.601.04	3	825
71.601.06	4	1075
71.601.08	5	1325

ARC coat hook

Code	⟷ WxH
71.323.80	180x90

ARC teak wood plugs

Code	Ø mm	ORDER BY BOX
71.601.50	6	100
71.601.51	10	100
71.601.52	12	100
71.601.53	8	100
71.601.54	6/8/10	50 assorted
71.601.55	15	100

ARC belaying cleats

Code	Lengthmm	Bore centre distance mm
71.604.01	150	38
71.604.02	200	45
71.604.04	250	43
71.604.06	300	50

ARC bordered footboard

Code	Version
71.605.04	large size 288x112 mm
71.605.06	small size 215x82 mm

ARC edge step

Code	⟷ WxDxH mm	For tube Ø mm
71.309.00	305x45x22	25

ARC flag poles

Code	Width cm	Stainless steel base OPTIONAL
71.607.50	60	35.390.13
71.607.52	75	35.390.13
71.607.54	90	35.390.13
71.607.56	120	35.390.13

ARC pulpit motor stand

Made-ready for pipe Ø 25 mm.

Code	⟷ WxDxH mm
71.208.90	175x45x175

► ARC teak cabinets, doors and handles

ARC flush-mount box

Designed for wall mounting, can store various items.

Code	⟷ WxDxH mm
71.601.57	450x190x190

ARC medicine cabinet with mirror

Code	⟷ WxDxH mm
71.605.75	375x112x275

ARC kitchen/toilet cabinet

Fitted with two mirrors.

Code	⟷ WxDxH mm
71.605.78	560x110x380

ARC toilet mirror

Code	⟷ WxH mm
71.605.74	275x375

ARC kitchen/toilet cabinet

Fitted with two shutter door.

Code	⟷ WxDxH cm
71.605.79	56x11x38

ARC cabinet shutter fitted with frame

For mounting on the right or left.

Code	⟷ WxH mm	Hinges OPTIONAL
71.607.20	305x305	71.607.00; 71.607.01
71.607.22	380x380	71.607.00; 71.607.01
71.607.24	380x500	71.607.00; 71.607.01
71.607.26	380x610	71.607.00; 71.607.01

ARC protection front panel

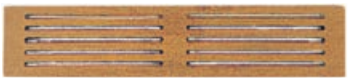
Suitable for refrigerator bases, ventilation ducts, lockers etc.

Code	⟷ WxH mm	Picture n°
71.396.30	445x100	1
71.396.31	300x100	2
71.396.32	200x100	3
71.396.33	200x150	7
71.396.60	125x65	4

Code	⟷ WxH mm	Picture n°
71.396.70	125x125	5
71.396.71	125x250	6
71.397.00	Ø 100	-
71.397.10	Ø 150	-

◢ 71.397.00

◢ 71.397.10


◢ 71.396.30

◢ 71.396.31

◢ 71.396.32

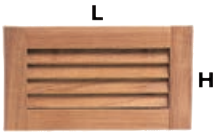
◢ 71.396.71

◢ 71.396.70

◢ 71.396.33

◢ 71.396.60

ARC shutter ventilation grids - 18-mm thickness



Code	⟷ L x H mm
71.607.10	235x408
71.607.12	235x193
71.607.14	288x163
71.607.16	452x237

ARC kitchen and bathroom cabinet

With shutter

Code	⟷ WxDxH mm
71.607.40	375x112x275

ARC shutter ventilation grids

◢ 71.303.10

Code	⟷ WxH mm
71.302.10	140x115
71.300.10	150x150
71.303.10	128x350

ARC DIY system to make customizable ventilation grids and hatches

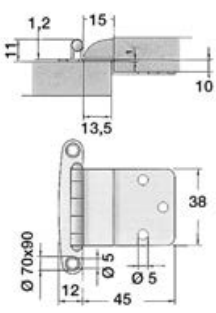
Code	Description
71.607.02	Pair (dx+sx) side profiles already provided with hollows for fitting blinds, size 45x22 mm, length 121 cm
71.607.03	Head profile 45x22 mm, length 121 cm
71.607.04	shutter profile length 122 cm

To calculate how much profile model 71.607.04 is required, do the following calculation: hatch height minus 9 cm, all divided by 2.5; this is the number of slots needed for placing profile model 71.607.04.

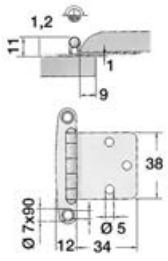
Stainless steel hinges for hatchways

To lock the device it's advisable to use the stopper model 38.107.41 or similar.

Code	Type	For hatches	⟷ mm
71.607.00	with overhang size mm 10	71.607.20; 71.607.22; 71.607.24; 71.607.26	57x44
71.607.01	without overhang part	with flat stop	38x46



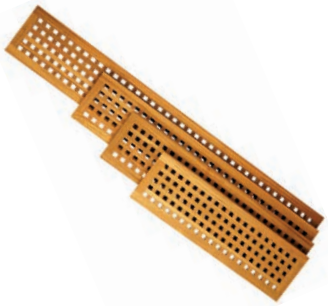
◢ 71.607.00



◢ 71.607.01

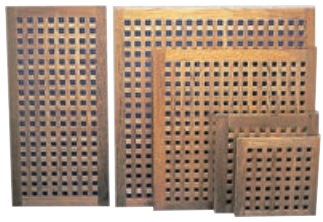
► ARC teak gratings

ARC grating for floors and gangways - 22-mm thickness



Code	⟷ mm
71.118.07	1000x300
71.118.08	1250x300
71.118.09	1500x300

ARC shower, toilet and floor grating - 22-mm thickness



Code	⟷ mm
71.117.99	400x400
71.118.00	500x500
71.118.01	600x600
71.118.02	500x1000
71.118.05	800x800
71.118.06	1000x1000

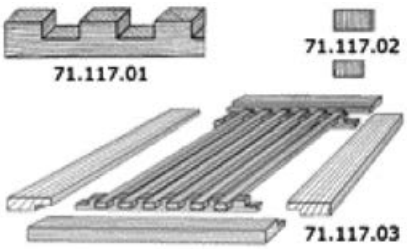
ARC grating for showers, toilets or round bars - thickness 22 mm

Code	Ø mm
71.118.03	500
71.118.04	400

"Do it Yourself" system for creating cratings

With lights size 18x18 mm and thickness 18 mm.

Code	Description
71.117.01	staircase profile T032 mm 18x18, length cm 122
71.117.02	Rectangular T039 mm 18x9, length cm 122
71.117.03	perimetrical border T042, length cm 122
71.607.05	mounting wooden pins for end frame, 8 piece bag



► ARC teak tables and chairs

ARC real teak folding chair

Extra high quality finish, brass fittings.

Code	Cushion and backrest in	Color	Type	Fittings
71.323.20	Simple fabric	blue	chair *	stainless steel
71.323.21	Simple fabric	white	chair *	stainless steel
71.326.30	Stuffed fabric	blue	chair *	stainless steel
71.326.31	Stuffed fabric	sand	chair *	stainless steel
71.336.50	Stuffed fabric	blue	stool	stainless steel

* *Size: closed 45x68x23 cm, opened 57x89h cm.*

ARC teak folding stool

Extra compact model; ideal for fitting into narrow spaces with teak chairs and tables.

Code	⟷ cm	
	open	folded
71.308.00	30x30x45	30x50x6

ARC teak tip-top table and extension

Code	Description
71.306.00	Folding table made of real **teak**, size 60x60x60 cm (height)
71.306.10	Insert made of **teak used to extend** table 71.306.00 to cm 60x76, with corresponding height increase of 70 cm.

ARC teak tip-top table

Adjustable by height.

Code	Size cm	Height cm	Folded cm
71.305.75	90x70	59/70	108x70x13
71.305.76	70x45	58/70	94x45x10

ARC teak tip-top table, adjustable height

Code	Open top cm	Heightcm	Folded cm
71.305.20	50x40	35x40	62x40x10

ARC teak removable table

May be used as a tray.

Code	⟷ cm
71.305.40	80x60x53h

ARC oval tip-top table made of real teak

Code	⟷ cm	Folded cm
71.306.15	80x65x57	80x65x7

ARC table top for sailing boat post

Foldable and collapsible (to make it collapsible buy art. 71.240.10), made of real teak, with **brass** fittings. Supplied without support arms to be ordered separately.

Code	⟷ cm	
	opened	closed
71.202.00	70x64	35x64
71.202.60	70x80	35x80
71.202.70	70x90	35x90

◀71.202.00

ARC reak teak table

Foldable and adjustable in 3 heights.

Code	⟷ cm		Height cm	
	open	folded		
71.305.60	110x70	110x70x14	44/59/70	Adjustable
71.305.70	125x80	125x80x14	44/59/70	Adjustable
71.305.72	150x85	150x80x14	70	Fixed
71.305.80*	118x70	110x70x14	44/59/70	Adjustable

* *Smooth top*

◢ 71.305.80

ARC tip-top table with hinged legs

Thanks to its **dual folding system** is a convenient table when opened; reduced size for stowage.

Code	⟷ cm	
	opened	closed
71.356.60	78x145x72(height)	78x15x72(height)

ARC real teak table tops

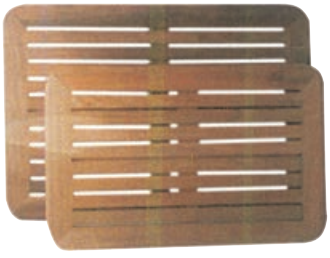
◢ 71.307.00/10

◢ 71.307.11

Fitted with edges and drains on each angle.

Code	⟷ mm
71.307.00	400x700
71.307.10	550x800
71.307.11	Ø 800

ARC real teak table top



Fitted with rounded edges and slats.

Code	⟷ cm
71.307.28	45x70
71.307.29	55x80

Foldable arm pair

For table models 71.202.00; 71.202.60; 71.202.70; made of **stainless steel**, supplied with a kit for mounting the pipes into post Ø 22/30 mm.

Code	⟷ mm
71.240.10	303x165

► Teak strips for decks

ARC teak strips for decks

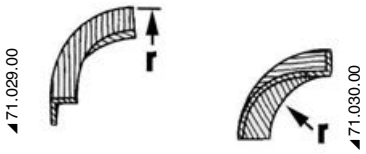
Code	⟷ mm	Length cm
71.100.70	45x10	200
71.101.30	60x10	200

ARC teak strips

Length 200 cm.

Code	⟷ AxB mm
71.100.20	45x10
71.200.40	100x10
71.200.50	150x10
71.317.70	20x20
71.317.80	30x30

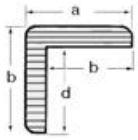
► Additional parts for profiles



ARC profile corner pieces

Concave	Convex	Adaptable to profile
71.030.00	**71.029.00**	71.028.00

ARC “L” profiles

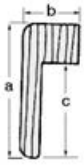


Code	A mm	B mm	C mm	D mm	Length m
71.028.00	23	23	18	18	2

ARC gunnel profile

Code	A mm	B mm	Length m
71.012.00	28	20	2

ARC profiles



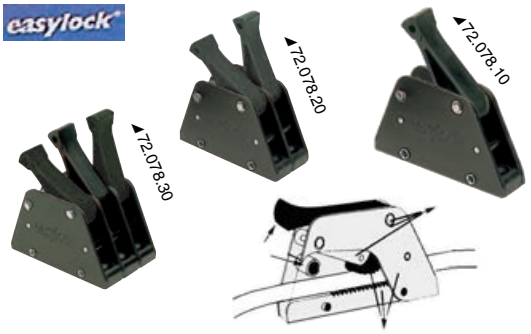
Code	A mm	B mm	C mm	Length m
71.043.00	34	15	24	2

► Easylock Clutches

EASYLOCK Clutch

The world's most famous.
The first patented device to tension and ease lines under load.
Anodized aluminium housing, **stainless steel** cams and shafts, delrin levers and rollers.
For hulls 6 to 9 m.

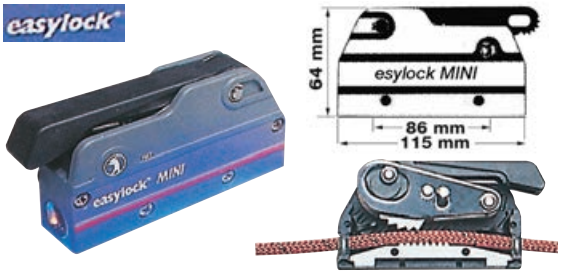
Code	Version	Model	Breaking load kg	Work load kg	Line Ø mm	⟷ mm	g
72.078.10	Single	Black anodizing	725	300	6-10	108x65x24	245
72.078.20	Double	Black anodizing	625	300	6-10	108x45x65	435
72.078.30	Triple	Black anodizing	725	300	6-10	108x66x65	630



Easylock Mini

Model designed for max 33' boats (IOR halftonner). Stylish design, all polycarbonate, with base and levers of light anodized alloy, screws and rivets of stainless steel.
"Powerlock revolutionary anti-slip system: locks the line in both directions.

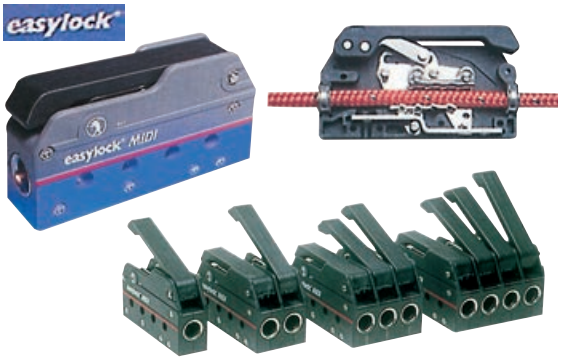
Code	Version	Working load kg	Line Ø mm	⟷ mm	g
72.090.10	Single	450	6-10	30x115x64	300
72.090.20	Double	450	6-10	55x115x64	566
72.090.30	Triple	450	6-10	80x115x64	824
72.090.40	Quadruple	450	6-10	105x115x64	1084



EASYLOCK Midi stopper

Evolution of the world's famous Easylock I.
Based on the principle of two **stainless steel** parallel plates that lock the sheets.
The greater the sheet tension, the more the holding action.
100% black polycarbonate and stainless steel.
For hulls 9 to 12 m.

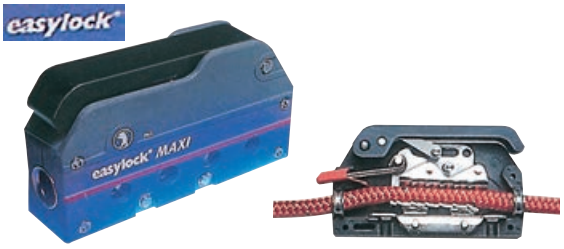
Code	Version	Working load kg	Line Ø mm	⟷ mm
72.092.10	Single	700	6-12	140x80x33
72.092.20	Double	700	6-12	140x80x63
72.092.30	Triple	700	6-12	140x80x92
72.092.40	Quadruple	700	6-12	140x80x121
72.092.50	Quintuple	700	6-12	140x80x150



EASYLOCK Maxi stopper

Designed for large boats, suitable for ropes 10 up 14 mm and boats up to 18 metres.
Includes all the features of the Midi and Mini versions.
Stainless steel, nylon and aluminium body, color black.

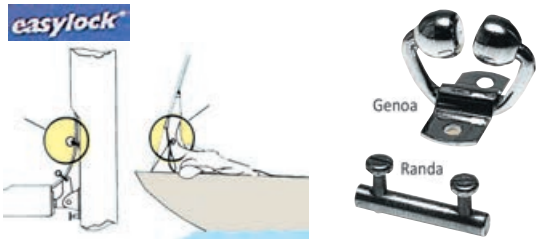
Code	Easylock MAXI	Work load kg	Line Ø mm	⟷ mm	g
72.140.94	Single	1400	8-14	36x149x88	750
72.140.95	Double	1400	8-14	71x149x88	1450



EASYLOCK Feeder stopper

Sail feeders for genoa or mainsail. Made of stainless steel. Universal fit, installation in seconds.

Code	Description
72.230.23	"Mainsail" sail feeders
72.230.24	"Headsail" sail feeders
72.230.25	The same 72.230.23 but with pipe 8 mm



PRODUCTS INDEX

Anchorage and docking
01 - Anchors, rollers and compensators
02 - Windlasses and Thrusters
06 - Lines and ropes
34 - Oars

Safety and maintenance
21 - Horns
22 - Liferafts, personal floatation devices and dinghies
23 - Safety harnesses and other accessories
24 - Clothing
30 - Distress signals
31 - Fire extinguishers
32 - Radar reflectors, first aid kit cases, floating anchors
65 - Insulation, cleansing agents, paints

Plumbing and sanitary fixtures
15 - Showers, Manual pumps
16 - Bilge pumps, impellers, fresh water pumps
17 - Skin fittings, filters
18 - Clamps, hoses, drain plugs, tanks
50 - Wash basins, stoves, refrigerators, toilet units

Deck accessories
03 - Rigging Hardware
04 - Splicing, hardware and rigging
05 - Hardware and rigging
07 - Rigging and accessories
08 - Shackles, snap shackles
09 - Snap hooks
19 - Hatches and portlights
20 - Deck fillers and hatches
39 - Rings and eyebolts
40 - Cleats and fairleads
41 - Pulpits, fishing rod holders and stanchions
53 - Vents
72 - Easylock clutches

Stainless steel hardware
37 - Screws
38 - Gas springs, stainless steel hardware

Electrical equipment
11 - Navigation lights
12 - Torches, batteries
13 - Spotlights, ceiling lights
14 - Electrical materials

Electronics and navigation
25 - Compasses
26 - Binoculars, plotting
27 - Engine instruments and installations
28 - Meteorological instruments
29 - Electronics

Fenders, buoys
33 - Mooring buoys, fenders
44 - Rubbing strakes and rubber extrusions

Motorboating and accessories
43 - Anodes, engine bellows
45 - Steering systems
46 - Biminis
47 - Outboard brackets
51 - Trim tabs, mufflers
52 - Tanks, propellers, impellers
54 - Letters and EC tags
63 - Bungees, sail ties, fixing straps
64 - Waterskis, wakeboards, inflatables, snorkeling
66 - Accessories for inflatable boats

Ladders, gangways and platforms
42 - Davits, gangways
49 - Ladders
48 - Seats, tables, table pedestals and object holders

Sailing equipment
55 - Control blocks and cam cleats
56 - Cam cleats
57 - Winch handles, jib furlers
58 - Chain plates, sail battens
59 - Mast steps
60 - Tiller extensions and spinnaker fittings
61 - Tracks, travellers and organisers
62 - Tracks, travellers, Toerails
67 - Genuine "Pfeiffer" alloy accessories
68 - Lewmar equipment
69 - Lewmar Steering Systems

Onboard comfort equipment
10 - Eyelets, pins, knives
35 - Wind indicators, flags, key rings
36 - Cleaning kits, canvasses
71 - Teak

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Description	Group	Page
A		
Abrasive cleaner	65	1030
Abrasive pad	36	592
Abrasive paste	65	1028-1030
Absorbent cloth	65	1008
	36	588
Accessories	02	59-68
	46	781
Accessories for antennas	29	505
Accessories for awnings	46	773
Accessories for batteries	14	225-227
	29	527
Accessories for bimini tops	46	772,773,775
Accessories for dinghies	66	1049
Accessories for inflatable boats	66	1048-1051
	34	572
Accessories for platforms and gangplanks	48	823
Accessories for porthlights	19	401
Accessories for tenders	66	1048
Accessories for tents	46	773-774
Accessories for trailers	02	65-66
Accumulator tanks	16	277
Accumulators	12	147
Actuators	38	610
	51	912
Additives	65	1009
Adeprene	65	1036
Adhesive stripe	65	1033, 1038
Adhesive systems	65	1034
Adhesive tape	46	790
	65	1036-1037
Adhesives	65	1036
Adjustable lights	13	157, 167, 170, 172, 183, 186
Adjustable strips	13	170
Adjustable wall lamps	13	167
Aerator pumps	16	292,293-294
Aerosol	31	542
A-frames	48	824
Air conditioner	50	907-908
Air filters	17	358, 372
Air horn	21	431
Air intakes	53	957, 960, 962
Air Pressure Gauge	66	1051
Air vents	19	391
	46	790
	53	957-962
AIRHEAD	64	995
AIRPAX/SENSATA	14	207
AISI 316 terminals	05	75
AISI316 anchors	01	14, 16
AISI316 chain	01	18,21
AISI316 connectors	01	20
AISI316 strakes	06	88
Alfa-Lok	65	1034
AL-KO	02	64
Alloy pipes	41	687
Aluminium anchors	01	17
Aluminium fuel tanks	52	930
Aluminium rollers	01	29
AM/FM Antennas	29	507, 511
Ambient lights	13	150, 152, 161, 64-165, 168, 173-174
Ammeters	27	484
AMPHIBIOUS	23	453-455
AMPHIBIOUS	47	798
Amplifier	29	495-496
Anchor connector	01	20, 23
Anchor kit	01	22
Anchor lines	01	19, 22
Anchor lockers	01	28
Anchor pins	01	19
Anchor retrieval	01	23
Anchor retrievers	01	23, 26
Anchor rodes	02	51
Anchor sets	01	19
Anchor shackles	01	19
Anchor swivelling connectors	01	21
Anchor winche	01	25-26
Anchorage	01	14-17, 19, 23
Anchoring	01	14, 22
Anchorlube	02	51
Anchors	01	14-17, 21-23, 27-28
	32	547
Angle locks	38	646
ANL	02	54
Anodes	02	51
	43	707-730
Anodized anchors	01	17
Antenna bases	29	513
Antenna cables	29	512
Antenna supports	29	505, 512, 528, 530
Antennas	29	505, 507-508, 512-513, 516, 523, 527
Anti nausea bands	32	546
Antifog	64	1001
Antifouling	65	1040 ,1045
Antifouling electronic device	65	1047
Antifouling paints	65	1041, 1043, 1045-1047
Antisiphons	51	919
Antiskids	49	856
Antislip	49	856
Anti-slip coatings	65	1021
Antislip tape	49	856
Antitheft devices	02	62
	38	661
Apollo steering wheel	45	740
Apparel	24	461-463
Applicators for glue	65	1012
Aqua Clean	52	956
AQUATIC AV	29	496-497
ARC	71	1072
Arms for windshield wipers	19	403
Articulated lights	13	167-168
Articulated spotlights	13	165, 168
Ash-trays	32	547
ATF	65	1006
Attitude correctors	51	912-913, 917
Attitude indicators	51	917
Attwood	13	188
ATTWOOD	16	282, 289-290, 293, 324
	48	807
Automatic battery switch	14	199
Automatic bilge pumps	16	280
Automatic brake	02	55-56
Automatic electronic signalling devices	22	442
Automatic fresh water pumps	16	276

Description	Group	Page
Automatic fuses	14	206
Automatic pilots	29	517
Automatic switches	14	221
Automatic unipolar battery switch	14	199
Autopilots	29	517, 525
	69	1070
AUTOSOL	65	1030
Autotransformers	14	220
Awning	46	770-773, 776-781
Axial vertical floaters	27	488
Axiom	29	520 -521

B

Backpack	23	454
	47	798
Bag	22	439,447
	23	453,454,456
	15	259
	47	798
Bags for lifejackets	22	432
Bailer	15	270
	18	381
Balance	42	701
Ball valves	17	333, 337, 343-344
	50	903
Barbecue	48	829-831
Barigo	28	490-492
Barometers	28	490-494
Base	41	695
	62	988
	38	609
	41	683-684
Bases for beds and berths	48	839
Bases for cleats	40	671-672
Bases with pin	38	609
Bathroom	50	888, 896-897
	52	927
Bathrooms	50	902
Bathyscope	12	139
BATSYSTEM	13	150, 155-157, 165, 167, 169-170, 174, 176
Batteries	12	142, 144-147
	14	198,199, 215, 223
	29	527
Battery accessories	14	227
Battery boxes	14	215
Battery cables	14	226
Battery chargers	14	201, 216-218, 223,245-246
Battery clamps	14	225
Battery deviators	14	201
Battery disconnect switches	14	198
Battery holders	14	214-215
Battery isolators	14	196-199, 201, 222
Battery monitors	14	219
Battery protect	14	221
Battery switch	14	196-201
Battery terminals	14	225
Battery testers	14	213
Beacons	13	157, 170, 172, 183
Bearing compasses	25	476
BEDFLEX	48	839
Bedside light	13	165,166
Belaying cleats	67	1057
	71	1074
Bellows	02	63
	03	71
Bells	32	549
Belts	02	56-57
Benches	22	447
BENNET	51	913, 917
Berths	06	91
Bicolour lights	11	117, 124-126, 128-131, 135-138
Bidet	50	891, 893, 897
Big telescopic ladders	49	844
Big under-platform sliding ladders	49	849
Bilge pump	15	269
	16	272, 279-282, 284-285, 287, 290
Bilge pumps manual	15	267-270
Bimini	10	112
	46	770-773, 775-779
Bimini top straps	46	775
Bimini top system	46	779
Bimini tops	10	110
Bimini tops	39	662
	46	775-777, 779-781
	48	828
BINO fender profiles	44	733
Binoculars	26	477-478
Bird deterrent devices	35	584
	29	584
Black anchor signal balls	30	537
Black inflatable signal balls	30	537
Black water indicators	50	898
Black water tanks	50	900-901
Black waters	50	902
Blade connectors	14	236
Blades for windshield wipers	19	403
Blinds	19	385, 396-400
Blisters	06	82
Blocks	55	964-971
	56	976
	68	1058-1061
Blowers	16	325
Blue Wave	05	75
	07	94
Bluetooth amplifiers	29	495-496
Boarding ladder	49	853, 855
Boat cleaning	36	589
Boat cover vents	46	789
Boat hook	34	564-566
Boat shampoo	65	1021, 1030
Boat trailer accessories	02	59-68
Boat trailer brakes	02	64
Boat trailer lights	02	65-68
Boat trailer spare parts	02	59-68
Boat trailers	02	59-68
	47	795
Boathook	34	565
Boilers	50	873
Bolts and screws	37	595-602
BOMAR	19	384-387
Boots	24	464
	64	1000

Description	Group	Page
Boris	15	255, 261
Boss Marine	29	495
Bosun's chair	23	452
Bottle cock	50	871
Bottle holders	50	870
Bottles	50	878
Bow angular joints	41	685
Bow fairleads	01	25
Bow light	13	185, 188
Bow pins	01	19
Bow rollers	01	25-29
Bow shackles	01	19
Bow stop	02	59-60
Bow thruster	02	52-54
Bow thrusters	02	51-54
Bow/stern pulpits	41	689
Bracket for remote control	17	361
Bracket for ring lifebuoys	22	441
Bracket for table legs	48	814
Brackets	02	60-62
	30	538
	48	828
Brackets for lifebuoys	22	440
Brackets for scuba diving bottles	47	800
Braids	01	22
	06	78-88
Brake cables	02	64
Brake winch	02	55
Brass fasteners	10	110
Brass hose connectors	17	338
Brass valves	36	586
Brass washers	17	336
Brillwood	65	1026
Broadside lights	13	185,188,190-191
Bronze caps	17	344-345
Brooms	36	593
Bruce rollers	01	26-29
Brush	36	585-586,
		588-591
Bucket	23	593
	36	593
	48	806
Buckles	06	92-93
	09	102-103
	37	604
	46	774
Built-in lights	13	162
Built-in transducer	29	527
Bulbs	14	250-251
Bulkhead-mounting rod holders	41	692
Bumper fenders	44	734,736
Bungee	63	989-990
Bungee hook	63	989-990
Bungee sail ties	63	990
Buoy	01	21,24,34
Buoys	33	553-554,
		561-563
Buoyancy aids	22	433
Burner	50	861-864,
		866-867
Bushings	18	379
	41	694
	42	701
	46	779
	52	950
Bushings for cable hoses	16	330
Butterfly vents	53	960

Description	Group	Page
C		
Cable glands	03	71
Cable Hook	06	90
	14	194
Cable sheaths	14	237-238
Cables	02	56
	03	69
	05	76
	06	80
	14	226
	29	511
	45	752
Cabling coils	14	237
CAF-COMPO screw studs	10	109
Calibrated chain	01	18-19,21
Cam cleats	68	1062
	38	633
Cam-cleats	56	976
Can holders	48	835-836
Canopies	44	736
	46	770-776, 778,
		780, 785
Canopy	10	112
Cap	24	463
Capstans	02	45, 56-57
Capsule holder	71	1072
Carabiner	09	101
Carbon	39	668-669
Carling switch	14	205
Carpets	65	1035
Carriers	47	797
Carrying container for petrol	18	383
Cars	68	1063-1064
Cased gearings	02	55
Cases	22	439
Cast iron anchors	01	17
CATERPILLAR	52	942
Caulking gun	65	1012
C-Clips	34	569
Ceiling lights	13	150, 152, 154,
		156-157, 159,
		161-163, 166,
		168-173, 175-177
Cell phones	14	246
Central rollers	02	59-62
Centre pieces	52	933
Centrifugal pumps	16	281, 292
Ceramic knives	10	105
Certified lights	11	117-118,
		121-126,
		128-131, 133,
		135-138
Chafe guards	06	88-90
	23	457
Chafing	06	88-89
Chain	01	18
	02	51
Chain and rope	01	22
Chain Boy	01	22
Chain counters	01	23
	02	47-50
Chain grippers	01	23
Chain guides	01	27
Chain link	02	51
	01	19, 22
Chain marker	01	23

Description	Group	Page
Chain pieces	01	34
Chain plates	58	979-980
Chain Rainbow	01	23
Chain stoppers	01	22-23
Chain stowing systems	01	22
Chain swivels	01	21
Chainplate protections	23	457
Chains	01	18-19, 21-23, 34
Chairs	24	465
	48	832-833
	71	1077
Charge controllers	12	144
Chart light	13	168,169
Charting	26	479
Charting lights	13	167
Chartplotters	29	514,516-517,530
Chartwork	26	479
Check valves	17	336, 350
Chians links	01	21
Chock	02	64
Chromed brass plugs	20	418
Circinus	13	154
Circuit breakers	02	50-51
	14	198, 207
Clam cleats	56	972-976
Clamp rings	18	375-377
Clamps	04	72
	18	375-378
	52	924
Classic Evo	15	253-254
	16	328
Claw anchors	01	14
Cleancoat	65	1026
Cleaners	19	391
	65	1013, 1022-1023, 1032
Cleaners	66	1056
Cleaning	16	272
	65	1008
	36	591, 593
	65	1027
Cleaning Cloth Dispenser	65	1018
Cleaning products	33	560
	36	585-586, 588-592
	48	835
	65	1013-1018, 1021-1024, 1031
	66	1055
Cleansing agents	52	956
Cleanteak	65	1026
Clear viewers	19	406
Clearance lights	02	65-67
Cleats	40	671-677,680-682
	66	1048
	67	1057
	71	1074
Clever	20	417
Clevis pin	37	603
Climbing ladder	49	845
Clips	34	569-570
	60	984
Clocks	28	490-494
Closures	38	613, 660
Clothing	24	461, 464
Cloths	36	589
Clutch	02	55-56

Description	Group	Page
Clutch	72	1081
	56	976
	68	1061
Coat racks	38	658-659
Coatings	65	1021
Cockpit drains	17	346-347
Cockpit floors	65	1035
Cockpit flushes	17	346
Cockpit lights	13	175
Code flags	35	583
Collapsible anchors	01	17
Collapsible bucket	36	593
Collars	53	961
COLUMBUS	23	456-457
Combined lights	11	116-117
Compact extractor fans	13	157
Compartments	20	415
Compasses	25	466-476
Compensators	01	31-33
Connecting cables	02	53
Connectors	01	19-21, 23
	12	144
	17	338, 348
	29	526
	52	925
Console covers	46	781
Contactors	02	47, 51
Control	02	52-53
Control Box	02	50-51
	45	751
Control devices	51	916
Control panel	14	210,213
	51	915
Control panel covers	46	781
Controllers	02	46-51, 53
	12	144
Controllers for winches	02	47
Controllers for windlasses	02	51
Converter	14	222-224
	29	527
Cooker	50	861, 868, 872
Cooker hoods	50	872
Cooktops	50	861-867, 872
Cookware	48	835
Cool box	50	876
Coolers	50	876
Cooling	50	878
Cooling system pipes	17	373
Cooling units	50	877, 883
Copper pipe joints	17	341
Copper pipes	17	373
	45	768
Copper plates	14	228
Cordura chafe guards	06	89
Cotter pins	52	935
Coupling release system	39	662
Couplings	17	350
	52	922
Course protractors	26	478-479
Courtesy LED lights	13	151-152, 155, 160, 177
Courtesy lights	13	150-156, 158, 160-166, 168, 170-173, 175-178
	48	829
Cover for inflatables/tenders	46	786
Cover for open hulls	46	786

Description	Group	Page
Cover tensioners	37	604
Coverings	65	1035
Covers	10	110
	46	781-782,
		786-789
Covers for electrical connections	14	192
Cowl vent	53	958
CQR anchors	01	14, 17
CQR rollers	01	26, 29
Crimping tool	14	227
Crosstree covers	57	977-978
CUMMINS	52	943
Current	12	145, 147
Cushion	24	465
Cushion fastening	10	112
Cushion holders	10	108
Cushions	24	465
Cutlery holders	48	834
	71	1072
Cut-off devices	14	208
Cutting pliers	04	73

D

Danforth anchors	01	16
Danforth rollers	01	26, 29
Davits	42	703-704
Decanters	17	363
Deck Fillers	20	415-420
Deck lights	13	157, 170-172,
		178
	48	829
Deck organisers	61	986
Deck showers	15	253-259,
		260-263
Deck vent	53	957
Deep beam lights	13	182
Deflation	66	1052-1054
Defrosters	50	906
Degreasers	65	1026
DELAHOUSSE	10	112
Delta anchors	01	15, 19
Delta rollers	01	28-29
Demountable bathyscope	12	139
Depth sounders	29	522, 524-525
Desy	15	260
Detergent	52	956
	65	1009, 1013,
		1017, 1022-1023,
		1026, 1032
	66	1056
	48	835
Device	50	878
DEVOCEAN	64	995
DHR	11	124-125, 138
Diesel	52	927
Digital displays	29	524
Dimmable switches	14	248
Dinghies	22	446-449
	49	853
	52	943
Dinghy accessories	22	447
Dinghy fabric	66	1056
Dinghy holders	22	447
Dinghy lift systems	22	446
Dinghy repair	66	1056
Disconnect switches	14	198
Displays	29	520
Distress flares	30	536
Distress signals	30	536-537
Dive boots	64	1000-1001
Docking fenders	33	557, 560
	44	736
Docking lights	13	188
Dodgers	02	59
DOGA	19	406
Doggy ramps	49	854
Dolphin strikers	01	25
	48	820-821
DOMETIC	19	395-398
	50	872, 886
Door latches	38	647
Door stop	38	615, 642, 644
Doormat	23	460
	23	460
Doors	38	646
	46	790
Doorstop	38	629, 632,
		642-645
Double sheaves	01	28
Double TDP	39	669
Doublebraid	06	78-79
Double-joint connectors	01	20
Double-sided tapes	19	401
DOUGLAS MARINE	01	22, 32-33
Drain plug	18	380
Drain systems	18	379-381
Drainage	15	269-270
Drains	50	860, 865
Drawer closures	38	660
Drawer compartments	20	411
Drawer fridges	50	886
Drinkable water tanks	52	954
Drives	29	525
	69	1070
Drogues	32	547
Drop nose pin	46	773
	37	603
Drum reels	06	91
Drums	21	430
Dry-Wash	65	1013
D-SPLICER	10	105
Dual battery charger	14	221
Dual cone loudspeakers	29	498-499
Dual Drive	02	56
Dual-cone drogues	32	547
DURALAC	65	1004
Dyneema	06	79-82, 84
	08	97

E

Earmuffs	52	931
EASYLOCK	72	1081
EasyTroller	52	933
Echosounders	29	527
Eco-friendly horns	21	431
Elastic band hooks	63	989-990
Elastic bed base	48	839
Elastic cable	63	989
Elastic compensators	01	32
Elastic joints	52	922
Elastic mooring systems	01	31-33
Elbows	17	344-345, 348

Description	Group	Page
Elbows for WHALE pumps	17	348
Electric barbeque	50	869
Electric battery	12	142
Electric cable	14	195 ,236-237
Electric coolers	50	876
Electric hob units	50	864
Electric inflators	66	1052-1055
Electric material	14	210, 232, 235
Electric panel	14	210,212
Electric plugs	02	68
Electric pumps	16	295-297
Electric rope cutters	06	90
Electric sockets for boat trailers	02	68
Electric toilet	50	889
Electric toilet bowls	50	892-893
Electric toilet conversion kit	50	890
Electric toilet units	50	889
Electric torch	12	142
Electric winch	02	35, 37-45,57
Electrical actuators	38	610
Electrical adapters for boat trailers	02	68
Electrical cable junctions	14	226
Electrical cables	14	226, 238, 244
Electrical equipment	14	212, 235-236
	29	527
Electrical joints	14	236
Electrical material	14	212-213,237
Electrical panels	14	211-213
Electrical parts	14	225-227, 231,
		234-237, 239,
		242, 247
Electrical pedestals	48	818
Electro-controlled lights	13	183
Electronic components	29	516-517
Electronic fridges	50	876
Electronic heaters	50	906
Electronic signalling devices	22	442
Electro-operated light	13	182
Electrovalves for WC	50	896
Elephant	02	57
	16	281
Elissa	15	256
Ellebì	02	65
Emergency devices	29	533
Emergency flashing lights	11	138
Emergency ladders	49	855
Emergency light	12	141-142
Emergency locator beacons	29	533
Emergency personal floatation devices	22	441
Emergency plugs	22	443
Emptying	15	270
ENECOM	12	143-144
Energy	12	143-144, 147
Engine carrier wheels	47	797
Engine control cables	45	745-746
Engine control instruments	27	480-481,
		483-489
	50	898
Engine control mechs	69	1070
Engine coupling rod	45	754 ,765
Engine covers	46	782-785
	52	933
Engine oil filters	17	368, 370, 372
Engine oils	65	1008
Engine pumps	16	298-303
Engine stands	47	793
Engine supports	47	792

Description	Group	Page
EPDM	01	31
EPIRBs	29	533
Epoxy resins	65	1020
Ergonomic seats	48	802, 807
EUROCOVER	33	556
Europump	16	279-280, 292
Evaporators	50	877
EVINRUDE	52	942
EVO winches	68	1065
Evoled	11	114
Excel D12	06	81-82
Excel D2 Racing	06	80
Excel Fusion	06	81
Excel Pro	06	80
Excel PS12	06	81
Excel Racing	06	80-81
Exeterior lights	13	188
Exhaust mufflers	51	919
Exhaust pipes	51	920
Exhaust silencers	51	919
Exhaust systems	51	918
Exhausts seacocks	17	346
EXIDE	12	147
Extension cables	02	67
Extension rudder rods	60	983-984
Exterior lights	13	182, 184
Extra small needles	10	105
Extra Thin	65	1034
Extractor fans	13	157
Extra-lightweight folding gangplanks	42	701
Eye plate	60	985
Eye straps	06	93
	39	665, 667
Eye terminals	05	75
Eyebolts	01	22
	05	76
	39	663-665
Eyes	09	103
	39	666

F

Fabric	66	1056
Fairing lights	13	188
Fairleads	01	25, 29-30
	03	71
	14	241-242
	40	673-675,
		678-682
	58	981
Fall Safe	02	37-40
Fans	16	331
Fast Fit	02	38-39
Fast Rubber	66	1048
Fasteners	10	110, 112
	38	613
Fastening brackets	48	814
Fastening system	39	662
Fastmount	10	112
Faston	14	235
Faucets	17	354-355
Feeders	10	106
Female hose connectors	17	345
Fender basket	33	558
Fender covers	33	555-556
Fender fixings	40	678
Fender holder	33	558

Description	Group	Page
Fender hooking device	33	559
Fender profiles	33	553, 556
	44	731-734
	52	943
Fender storage	33	558-559
Fender terminals	44	731
Fenders	06	87
	33	550-555,560-561
	39	662
	44	736
Fenders for wharves	33	557, 560
FENDERTEX	33	554, 561
Fiberglass repairs	65	1020
Fid	10	106
Fighting chairs	48	804
Filler	20	417
	65	1020, 1044
Filler caps	20	418
Filler for wood	65	1020
Filtering funnels	18	383
Filters	17	366,368,370-372
	36	586
	52	956
Fins	64	1001
Fire extinguishers	31	540-541,543
Fire portholes	17	361
	31	542
Fire suppression systems	31	542
First aid	32	545-546
	47	799
First aid kit cases	32	545-546
	47	799
Fishfinders	29	514
Fishing accessories	36	591
	41	697
Fishing rod brackets	41	696
Fishing rod holder	41	692-698
Fittings	17	345
	45	763
Fixed spotlights	13	164
Fixed VHF	29	531
Fixing clips	34	570
Fixing plates	60	985
Flag pole	35	578 -579
	66	1049
	71	1075
Flags	35	574-577
	66	1049
Flagstaff	35	578-579
Flanges	27	489
	52	927
Flaps	51	912-913, 917
Flares	30	536-537
FLATTING	52	943
Flexible LED strips	13	173-174
Flexible water heaters	17	352
FlexMod	14	199
Floater for fuel meters	27	488
Floating anchors	32	547
Floating batteries	12	142
Floating drain plugs	18	380
Floating helmets	22	443
Floating rescue lights	22	437, 442
	30	538-539
Floating smoke signals	30	536
Floating torches	12	142
Floats	27	486

Description	Group	Page
Floats	64	1000
Floor mop	36	587
Floor plate stops	38	632
Fluida	64	1001
Fluorescent ceiling lights	13	176
Flush pulls	38	634
Flyscreens	19	385,396-398,400
FM radio	29	495
FM/AM antennas	29	507
Foams	65	1013
Fog horn	21	430
Foghorns	21	427
Foldable eyebolts	39	666
Foldable pole lights	11	114-115,
		118-119 ,122
Foldable seats	48	807
Folders	23	453
Folding anchors	01	14, 16-17
Folding bucket	36	593
Folding eyebolt	39	666
Folding pad eyes	39	666-667
Folding sink	23	593
Folding sun umbrella	46	780
Foot pocket	64	1001
Foot pumps	15	267
Footblocks	55	969-971
	68	1059, 1062
Footboards	71	1074
Footrest boards	40	812
	48	810-811
Footswitches	02	46
Forestay plate	58	979
Foresti e Suardi	13	154, 166
Fork bases	38	609
Fork terminals	05	75
Fortress anchors	01	17
Frames	48	801-807
France	32	546
Free-standing lights	13	157, 170, 172
Freezers	50	882-884
Fresh water inlets	16	329
Fresh water pumps	16	271-277
Fridges	50	876, 884
Fuel	52	927
	65	1008
Fuel bulb	52	924
Fuel connectors	52	924
Fuel filters	17	362-367, 372
Fuel floats	27	486, 488-489
	50	898
Fuel funnels	18	382-383
Fuel hoses	52	925
Fuel jerricans	18	382
Fuel level meters	27	483 ,488
Fuel level sensors	27	486, 488-489
	50	898
Fuel oil filters	17	368, 370
Fuel pipe pump	52	924
Fuel pipes	17	373
	52	923-924
Fuel primer bulb	52	924
Fuel pumps	52	924
Fuel skimmer	20	423
Fuel strainer	17	364 ,373
Fuel tanks	18	381-382
	52	926-931
Fuel taps	17	360

Description	Group	Page
Fuel valves	17	358, 360, 362
Fuel vents	20	421-423
Fume detectors	31	543
Funnels	18	382-383
	20	423
Furlers	57	978
Fuse boxes	14	231-233
Fuse holder	02	54
	14	231-234
Fuses	02	54
	14	206-207,
		230-232
G		
Gaffa tape	65	1033
Galvanic isolators	14	221
Galvanized anchors	01	14, 16-17
Galvanized chain	01	18-19, 21-22
	02	51
Gangplank	49	845
Gangplank holders	42	703
	64	996
Gangplank lights	13	190-191
Gangplanks	02	48
Gangplanks	48	822-823
Gangways	42	699-701
GARMIN	29	514, 516-518
Garmin charts	29	530
Gas blowers	16	324
Gas bottle containers	50	869-870
Gas bottle kit	50	870
Gas electric blowers	16	324-326
Gas exhaust pipes	51	921
Gas grills	48	830
Gas horn	21	431
Gas leak detector	50	871
Gas lighters	10	106
Gas ranges	50	867
Gas springs	38	606-609, 614
Gaskets	63	990
Gate valves	17	333, 337, 343
	50	903
Gauges	27	488
Gear boxes	45	751
Gear Oil	65	1025
GELCOAT	65	1020-1021, 1026
Gelcoat protection	06	89
Generator	12	143-144
	50	908-909
Genovese chain	01	19
Glands	14	241-242
Glass fibre	39	668
Glass fuses	14	230
Glass holders	48	835-837
	71	1074
Glasses	48	834
Glazed surfaces	65	1026
GLOMEX	29	505, 510
Glove	36	588, 592
	24	464
Glue	65	1004, 1010-1013,
		1036
	66	1056
GMR	29	516
GOBIUS	27	489
	50	898
Goggles	64	1001
Gold plated	02	54
GPS	29	515-516, 518
GPS antennas	29	516-517, 534
Grapnel anchors	01	16, 19
Grease	65	1005, 1024-1025
Grey water tank	16	289-290
Grey waters	50	894
Grills	48	830
Ground disposals	29	527
Ground plates	52	931
Ground wires	14	228
GUARDIAN	27	483-484
	50	898
Gudgeon	59	982
Guns for sealants	65	1012
Gunwale	62	988
Gypsy	02	35-45, 48
H		
Hall anchors	01	17, 19
Halyards	01	22
	06	78-88
Hand	36	591
Hand brush	36	588
Hand pumps	15	269
Handbook	10	105
Hand-held controllers	02	46-51
Hand-held flare	30	536-537
Handheld GPS	29	518
Handle	02	51
	36	589, 592
	38	657, 688
	40	682
	41	688
	49	845
Handle cover	36	589
Handle for stern gangplank	49	845
Handle mate	36	589
Handles for hatches	20	411
Handles with suction pads	36	586
Hand-operated windshield wipers	19	402
Handrail bases	41	683-687
Handrail fittings	41	683-687
Handrail joints	46	773
Handrail terminals	41	683, 685, 687
Handrails	41	685, 688-689, 691
Harness	23	451-452
Harnesses safety	23	450
Hasp & Staple	38	631
Hat	24	463
Hatch covers	19	399
Hatch protection hood	19	401
Hatch stay	38	606-610
Hatches	19	388-389
	20	408-409, 411,
		414-415
	23	459
Haulage	02	55-57
Hauling rollers	47	796
Hawseholes	01	30
Heat exchanger pipes	17	373
Heater connections	17	352
Heater for heat-shrinkable sheaths	14	238
Heaters	14	238
	50	906

Description	Group	Page
Heating elements	27	486
Heat-insulation panels	65	1004
Heat-resistant clamps	18	378
Heat-shrinkable	06	90
	14	237-238
Heat-shrinking adhesive tape	46	790
Heliographs	30	537
Helly Hansen	24	461-463
Helms	45	743
Henderson	15	268
	17	349
HH	24	461-463
Hidden ladders	49	848, 850
High beam lights	13	178-181, 183
High power lights	13	178, 183
High pressure pipes	45	762, 768-769
High Strength Fastener	65	1034
High-beam lights	13	179
High-power lights	13	179, 181-182
Hiking straps	06	91, 93
Hinged bow Rollers	01	26-28
Hinges	38	615-624,
		626-629, 632, 644
	50	874
	71	1076
Hobs	50	861-864,866-867
Hob spirit	50	872
Hob units	50	864
Holders	20	411-413
HONDA	52	943
Hoods	46	776-777
Hook & loop fastening system	65	1032
Hook&loop fasteners	65	1032
Hooks	02	63
	09	103
	34	564-566
	37	605
	38	658-660
	58	980
Hooks for windscreens	44	736
Horn	21	430-431,424-431
Horseshoe lifebuoy covers	22	438-439
Hose clamps	18	374-375
	37	605
Hose connector for deck filler	20	421
Hose connector for fresh water	16	328-329
Hose connectors	16	326-330
	17	338, 345
	53	961
Hose vent	53	960
Hoses for cables	16	330
Hoses for electric blowers	16	324
Hoses for gas electric blowers	16	324
Hourmeters	27	484
Housings	20	410-413, 415
Hull tarpaulins	46	787
Hull-Cleaner	65	1016
Hydraulic fittings	17	333-334,338-341,
		343,345,351-352
Hydraulic gangways	42	702
Hydraulic joints	17	339, 349, 355
Hydraulic oil	45	768
	65	1006-1025
Hydraulic steering	45	763-764
Hydraulic steering gears	65	1006
Hydraulic steering systems	45	755-758, 761,
		763-764, 766,
Hydraulic steering systems		768-769
Hydraulic steering wheels	45	768
Hydraulic steering, nylon hoses	45	765
Hydrofoil	52	934
Hydroglass	65	1027
Hydrowood	65	1027

I

Description	Group	Page
Ice makers	50	874, 886
Iceboxes	50	874-875
Identification plates	54	963
IGLOO	50	874-875
Ignition cut-off	14	208
Ignition keys	14	214
Impeller extractors	52	941
Impeller puller tools	16	319
Impellers	16	304, 307-309,
		311-320
	52	936-941
Inboard motor flusher	52	932
Inclinometer	26	479
Indicators	45	743
Indoor lighting	13	157, 161
Inflatable boat accessories	66	1050,1055-1056
Inflatable buoys	33	554, 561
Inflatable lifejackets	22	434-435
Inflatable ring lifebuoys	22	435
Inflatable signals	33	550-551
Inflatables	22	448-449
Inflaters	66	1054
Inflaters for SUP	66	1054
Inflating buoys	33	553
Inflator	33	560
	21	431
	66	1052-1055
Inflators for dinghies	66	1052-1053
Inflators for SUP boards	66	1053
Inflators/Deflators	66	1054
Inspection hatch	20	414-415
Inspection light	12	141
Inspection trapdoor	52	927
	20	415
Inspection/emergency lights	12	141
Instrument holders	29	532
Instruments	28	490-492
	29	532
Interior Light	13	164-166, 169
Inverters	02	50
	14	223-224
	65	1006
iPad supports	23	458
Isolator controllers	14	199
Italian style	13	163
ITALWINCH	02	43-45

J

Description	Group	Page
JABSCO	16	275
	50	888-890
Jacket	24	462-463
Jacob's ladder	49	853, 855
Japanese ceiling lights	13	163
Jet wash	36	586
Jib furlers	57	978
JOBE	64	995
JOHNSON	52	942

Description	Group	Page
Joints	07	94
	17	333-334,
		338-340,343,349
Joystick controls	02	53

K

Kayak paddle	34	568
Keel rollers	02	59-62
Keji	15	256-257, 262
Keji Continuum Flow	15	257, 262
Key for skin fittings	17	336
Key for strainers	17	373
Key rings	35	580-582
Keypads	29	521
Keys	66	1051
Kill Cords	14	208
King StarBoard®	65	1036
Kitchens	50	868
Kitchenware	48	834-835
Knives	10	104-105
Knobs	38	645-646,
		648-650
Knots	35	583
Kong	01	23

L

LA CROSSE	28	494
LABCRAFT	13	169, 173, 176
Labels	27	486
Lacing buttons	37	603-604
Ladder	49	842-852
	59	982
Ladder lights	13	189
	49	845
Ladders for dinghies	49	853
Ladders for platform	49	844
Ladders to be mounted under the platform	49	848
Lamps	14	249, 251
	32	549
Large steps	49	844
Latch	38	.611-613,629-637,
		644-646, 648-650,
		653-657
Lead core lines	01	22
LED	02	66-67
	12	141
	13	157-158, 165,
		170-174, 179
LED beacons	13	157, 170, 172
LED bulbs	14	250-251
LED ceiling lights	13	152, 157-158,
		160, 162, 176
LED courtesy lights	13	..152-153,161-
		163, 168
LED light	02	66-67
	11	113, 121-123,
		131, 133, 137
	13	.157,161,167-168,
		170-172, 176,
		178, 185-186, 189
	14	251
	48	829
	49	845
LED spotlights	13	157,165, 178
	48	829
LED strips	13	170, 173-174
LED torch	12	140-142
Ledders	49	843, 846, 852
LEDs	13	178
	48	829
Legs for tables	71	1079
LENCO	38	610
LENCO actuators	51	916
Lever latches	38	646
	02	51
Levilene	06	84
	01	22
	02	51
LEWMAR	01	14-16
	02	35-42, 46-47,
		51-54, 56
	19	388-393
	53	958
	68	.1060,1062-1065,
		1068
	69	1070
LEWMAR anchors	01	14-16
LEWMAR controllers	02	46
LEWMAR hatches	19	388-389
LEWMAR portlights	19	390-391
LEWMAR thrusters	02	51-54
LFX anchors	01	16
Lifebuoys	22	440, 442
Lifejacket accessories	22	435
Lifejackets	22	.432-433,436,441
Lifejackets for cats/dogs	22	443
Lifejackets for kids	22	432-433
Liferaft holder	22	445-446
Liferaft hydrostatic hooks	22	445
Liferafts	06	92
	22	443-445
Lifting systems	06	93
Light	12	141-142
Light bars	13	172
Light brackets	11	113
Light bulb	14	250
Light buoys	30	539
Light fixtures	13	161-162
Light strip	13	170, 173 -174
Light support	13	180, 187
Lighter socket	14	243-244
Lighters	10	106
Lighting	13	157, 161,
		164-165
Lights	02	65-68
	11	113-126,
		128-131, 133,
		135-138
	12	141-142
	13	150-151,
		153-172,175-176,
		178-185, 187-188
	14	214, 250-251
	30	539
	48	829
Lights for trailers	02	65-66
Line	02	51
Line clamp cutter	52	951
Line drum reels	06	91
Line stopper balls	06	90
Line terminals	06	90
Linear powered stays	38	610

Description	Group	Page
Lines	01	19, 22
	06	78-91
Line-throwing guns	23	458
Liqui Moly	65	1008-1009
Littelfuse	14	198-199, 233
Lock	38	645-646
Locker	20	410-412
	50	869-870
Locking devices	02	62
Locks	02	62
	38	611-613,
		629-631, 634,
		646-647, 651-658
	50	874
Locks for doors	38	648
Locks for lockers	38	611
Logs	29	524-525, 528
Loops	39	668-669
Loud speakers	29	498-501
	48	829
Louvred Vents	53	959-962
Lower unit gear oil	65	1007
Lubricant	02	51
	65	1005-1009,
		1017, 1024-1025

M

Macerators for toilets	50	902
Mafrast	36	587-588
MAGMA	48	830
Magnet kits	02	48
Magnetic locks	38	646, 652
Mainsail cursors	58	980
Male hose connectors	17	345
Man Over Board	29	533
	30	538-539
Manometers	66	1051, 1053-1054
Manual depth sounders	29	528
Manual toilet	50	888
Manual winches	02	55-56
Mares	64	1001
Marina fenders	33	557, 560
	44	736
Marine cameras	29	522
Marine cover	46	790
Marine fire suppression systems	31	542
Marine Shampoo/Shower Shampoo	32	548
Marine soap	32	548
Marine vaseline	65	1025
MARINER	52	942
Marlin Spike	09	101
MARLOW	06	78-82, 84
	08	97
Mask	64	1001
Masking tape	65	1033
Mast chocks	58	979
Mast head	11	124-125, 130, 133
Mast head lights	11	115-126,
		128-131, 135-138
Mast plates	58	979-980
Mast steps	59	982
Master mooring	01	32-33
Mattbraid	06	78
Max Marine	31	542
Maxi connectors	01	20
MC thinners	65	1041
Medical equipment	32	545-546
	47	799
Medicine box	32	546
medicine cabinet	20	413
Medicine chests	32	545-546
	47	799
Mega	14	233
Mega connectors	01	20
Mega Xenon	13	182
Megaphones	21	429
MERCURY	52	942
Meteo stations	28	494
Microfiber cloths	36	589
Microlux	13	176
Mini paddle	34	566
Mirrors	32	549
Mitt	36	588, 591
Mixers	15	259-261
	17	356-358
Mizar	15	253-254, 260-261
MOB	22	442
	30	538-539
Modular system	40	674
Modular tanks	52	930, 954
Moisture absorbers	52	956
Monster Tower	48	828-829
Mooring	01	14-17, 19-23,
		25-34
	02	35-45, 51
	06	87-89
	08	97
Mooring belts	01	33-34
Mooring compensators	01	31-34
Mooring devices	01	23, 31-33
Mooring elastic systems	01	32
Mooring hooks	34	564-566, 569
	36	591
Mooring lights	11	114-126,
		128-131, 133,
		135-138
Mooring lines	06	84
Mooring springs	01	31-33
Morosini	45	744
Motion sensors	14	249
Motor brackets	47	791-794
Motor gearboxes	68	1065
Motor stand	71	1075
Motor supports	47	797
Mould removers	65	1023
Mounting bracket	16	284
Mounting kit for liferafts	22	445-446
Mudguards	02	63
Mufflers	51	918-919
Multifunction displays	29	520-521
Multifunction instruments	27	480
Multiple hose connector	17	350
Multipurpose lubricants	65	1005
Multipurpose tools	10	104
Mushroom vent	53	957
MZ ELECTRONIC	02	47

N

NANNI	52	942
Nausea bracelets	32	546
Navigation black signal cones	30	537

Description	Group	Page
Navigation controllers	27	482
Navigation kit	26	478-479
Navigation lights	11	114-126,
		128-131,133-138
	13	181,185
Navilight	11	113
Navimount	11	113
NAVIONICS maps	29	529
NAVISAFE	11	113
Needles for ropes	10	105
Nemo lights	11	133
Neoprene fabric	66	1056
Net pockets	20	409
	48	837
New Edge	15	253-255,261
	16	328
Niagara	15	255
Night eye	13	178,181
Nipples	17	345
NMEA 2000 connectors	27	487
NMEA connectors	29	526
Noise suppressor for instruments	29	527
Non-stick valves	17	344
Norcross	29	527
No-return valves	17	350
Nuts	45	763
Nylon buckles	06	92

O

Oar holders	34	569
Oar-holder clips	34	569 -570
Oarlock	66	1049
	34	570-572
Oars	22	447
	34	567-568,570
Object compartments	20	412
Object holders	06	91
	20	409,411-413,
		415
	48	837
OCEANAIR	19	396
	50	904-905
Oceansouth	46	788
Oil	02	51
	65	1006-1008,1025
Oil absorbers	65	1018
Oil change kits	16	294,297
Oil extractors	16	294
Oil filters	17	368,370-372
Oil pressure bulbs	27	486
Oil pressure meters	27	484
Oleophilic sponges	65	1008
OMC	52	942
Onboard first aid kits	32	546
One-Wrap	65	1034
Orca	66	1056
Orchid	02	44
Organizer	06	90
	14	194
Orizon	13	173
Osculati	01	14
	11	114-126,
		128-129,131,
		135-138
	13	178,180,183
	50	903
Osculati	65	1008,1028-1029,
		1040
Osculati anchors	01	14
Osculati chain links	01	21
Osculati chain markers	01	23
Osculati connectors	01	20
Osculati controllers	02	46
Osculati hawseholes	01	30
Osculati plugs	14	193
Osculati rollers	01	26-29
Osculati sockets	14	193
Osculati springs	01	32
Outboard	17	373
Outboard Bracket	47	793-794
Outboard engine controls	45	753-754,
		756,765
Outboard engine spare parts	52	935
Outboard motor bracket	47	792,794
Outboard motor lifters	47	794
Outboard safety keys	14	208
Outboard washing caps	52	931-932
Outboard wing nuts	52	935
Outflow	15	269
Oval	15	260
Oval hawseholes	01	30
Ovens	50	868
Overboard	30	538-539
Overhead lights	13	164-165,
		167-168,172,178
	48	829
Oxigenators for livewell tanks	16	293

P

Pad eyes	39	666
Paddle	34	566-568
Pad-Eye	01	22
	39	663-669
Padlocks	38	661
Pads	36	592
Paint brushes	65	1041
Paint protection	06	89
Painting supplies	65	1041-1042
Paints	52	943
	65	1040-1041,
		1043-1046
Panel fastening	10	112
Panel lights	14	214
PAOMAR	01	23
Parachute flares	30	536-537
Parasol	46	780
Pawl straps	63	991
Peaks	48	838
Pedestals	48	808-811
Personal floatation devices	22	441
Personal locator beacons	29	533
Petrol filters	17	368,370
Pianosa	45	744
Pile fenders	44	736
Pins	01	19,22
	10	108-112
	37	603-604
Pintle	59	982
Pipe	18	374
Pipe caps	41	687
Pipe cutter pincers	17	351
Pipe plugs	41	685

Description	Group	Page
Pipes	41	687
Pivoting connectors	53	960
Pivoting rollers	01	26
Plastic buckles	06	92
Plastic Coins	65	1034
Plastic lights	11	114-124
Plate rollers	01	27
Plates	06	93
	09	103
	48	834
Platforms	48	821-823
PLB	29	533
Pleated blinds	19	395
Pliers	10	109
Plough anchors	01	17
Plug bushings	18	380
Plugs	02	68
	14	193, 239-240, 244-245
Plugs	20	418
Plugs for connection to the dock	14	193
Plugs with key	20	418
Pneumatic fenders	33	555
Pocket compasses	25	476
Pole bases	11	123
Pole lights	11	113-123, 125
	60	984-985
Poliglass	65	1026
Polis ceiling lights	13	160
Polish	65	1013,1026-1030
Polo shirts	24	461
Polycarbonate lights	11	117-118, 126, 129-131,137-138
Polyester lines	01	22
	06	78-88
Polyester straps	06	92
Polyester webbing bands	06	92
Polyethylene sheets	65	1036
Polyform	33	561
Polyform fenders	33	550-551
Polypropylene straps	06	91
Pontoon fenders	33	557, 560
Pop-out table light	13	177
Portable coolers	50	876
Portable electric fridges	50	876
Portable GPS units	29	518
Portable petrol tank	18	383
Portable toilets	50	887
Portable vacuum cleaner	50	872
Portable VHF	29	530
Portholes	23	459
Portlights	19	386-387,394,401
Portofino	45	744
Position lights	02	65
Pot holders	50	861
Pouches	23	456-457
Power lugs	14	227
Power sockets	14	192-195
Power supply splitter	14	244
Power Trim	27	484
Powered hatch stay	38	610
Power-supply units	50	885
Pressure gauges	66	1053
Pressure reducers	16	328-329
Pressure switches for pumps	16	273
Pre-stretched	06	79-80
Primer	65	1040-1041
Princeton	12	142
Pro Loop	39	669
Procion	13	161
Profiles	44	731-736
PROLOC	65	1012
Propeller pullers	52	949
Propellers	02	53
	52	948-949
Proportional controllers	02	54
Proportional thrusters	02	54
Pro-Series	02	35
Prospeed	65	1047
Protecting products	65	1013
Protection nettings	06	91
Protective	65	1027
Protective greases	65	1025
Protective products	65	1013
Pull catches	38	640-642
Pull handles	38	631-637
Pull latches	38	633, 641
Pulleys	01	25
Pulpit joints	41	684, 687
Pulpit nettings	06	91
Pulpit opening/closing systems	41	685
Pulpit sockets	41	683-687
Pulpits	06	91
Pump	65	1007
Pump automatic switches	16	287-289
Pump connectors	17	348
Pump panel switches	16	288
Pump strainers	16	275
Pumps	16	272-273, 275, 280-281,285-286, 290-291,293-295, 297, 303
	18	382
	52	932
Purifying filters	17	365
Pury Tabs	50	905
Pushbutton panels	02	47
Push-up cleats	40	676

Q

Description	Group	Page
Quick couplings	17	350
Quick Fit	10	112
Quick fittings	16	327
Quick pipe connections	17	351-352
Quick release	39	662
Quick-couplings	16	327

R

Description	Group	Page
RACOR	17	364, 366-367
Radar antennas	29	523
Radar reflectors	32	544
Radars	29	516, 523
Radio controls	02	47-48
Radio remote control cables	45	763
Radio stereos	29	495-497
Rail holders	71	1074
Rail lights	13	173
Ramps	49	854
Ranges	50	867
Ratchet strap	63	991
Ratchet straps	63	991
RAYMARINE	29	520-521,523-524

Description	Group	Page
Reading lights	13	164-166, 168
Rear bars	02	67
Rear lights	02	65-67
Rear-view mirrors	48	829
Rear-view mirrors	64	994
Recess fit ceiling lights	13	160
Recessed emergency ladder	49	855
Recess-fit ceiling lights	13	158
Recess-fit LED spot light	13	157
Recess-fit taps	15	259
Red Oil	65	1006
Reducers	17	345
Reels	06	82
Reflecting tapes	33	562
	22	442, 445
Reflective tapes for ring lifebuoys	22	436
Reflectors	02	68
Refrigerators	50	877-885
Regulators	12	144
Relay	14	201
Remote control boxes	45	746-749
Remote control cable compartments	17	360-361
	31	542
Remote controller	13	184
Remove Gel	65	1016
Rescue equipments	22	442
Resins	65	1019
Retaining Clips	34	569
Retractable davits	42	704
Retractable ladder	49	850
Reusable clamps	18	378
Rheostats	14	248
Ribs accessories	66	1048-1049, 1051
Ribs profiles	66	1050
Rigging screws	07	94-95
Rigid iceboxes	50	874-875
Rigid tanks	52	954
Ring	39	668-669
Ring lifebuoy covers	22	436
Ring lifebuoys	22	436-437
RIVIERA compasses	25	466-472
Rock	02	55
Rocker switches	14	204
Rokk	14	245-246
Roll bar lights	13	180, 187
Roller hawseholes	01	30
Rollers	01	25-31
	02	59-63
	65	1041-1042
Rollers for boat trailers	02	58-66
Rollers for trailers	02	65-66
Rope and chain	01	19
Rope cutters	06	90
Rope for fenders	33	559
Rope holder	63	991
	34	570
Rope/chain	01	21
	02	51
Ropes	01	19, 22
	02	51
	05	76
	06	78-88
	33	559
Ropes for ring lifebuoys	22	440-441
ROPEYE	39	668-669
Rotating bases	48	811
ROUND-ALU	48	818
Rowing	34	568, 571
Rowlock	66	1049
Rowlock socket	34	571
Rowlocks	34	570-572
RPM counter	27	483
Rubber	01	32-33
Rubber bellows	02	63
Rubber dinghy Repairs	65	1024
Rubber extrusion	44	735
Rubber stuffing box	52	951
Rubber support	02	59
Rubbing strake	44	731, 733
	66	1050
	06	88-89
	33	556
	44	731-732, 734
Rudder fittings	59	982
Rudder retaining clip	58	980
Rudder tiller extension	60	983
RULE	16	284, 288-290,
		293-294

S

Description	Group	Page
S.S. Rivets	37	605
Safety	01	22-23, 28
Safety belt	23	450-451
Safety chock	02	64
safety equipment	23	451
	22	441
Safety harnesses	06	92-93
Safety keys	14	208
Safety lights	11	113
Safety line	23	450-451
Safety switch	14	208
Sail battens	58	981
Sail cleaning	48	835
Sail cord	63	990
Sail feeders	72	1081
Sail gloves	24	464
Sail repair	10	106-108
Sail tie	63	990
Sailing gloves	24	464
Sailing Watch	29	517
Sanitary fixtures	50	897
	52	927
Sanitary ware	50	888
Sanitation hose	18	374
SCANSTRUT	14	241, 245-246
SCHENKER	50	910
Scissors for ropes	10	105
Scout	29	508
Screw studs	10	109
Screws	37	594, 604
Screws and nuts	37	595
Scrubbing brushes	36	587
Scrubs	36	586, 590
Scuba buoys	33	563
Scuppers	17	346-347
Sea anchors	32	547
Sea lighter	13	243
Sea rail covers	24	464-465
Sea Sure	06	92
Seacocks	17	346-347
	18	381
Seaflo	16	279
Seal	44	735

Description	Group	Page
Sealant	65	1004,1010-1012, 1031, 1040
Sealant gun	65	1012
Sealants	66	1055
Sealer	65	1011
Sea-sickness	32	546
Seat covers	46	782
	48	807
Seat hinges	48	803
Seat mounts	48	808-811
Seat pedestals	48	809, 817
Seats	48	801-807
Secondary anchors	01	23
Sector 7	12	142
Self amalgamating tape	57	978
Self-adhesive letters	54	963
Self-adhesive strakes	06	89
Self-amalgamating tape	65	1037
Self-flooding buoys	01	34
Self-inflatable lifejackets	22	434-435
Self-inflatable liferafts	22	444
Self-inflatable rafts	22	443-445
Self-locking rollers	01	27, 29
Self-supporting hinges	38	615
SELVA	52	943
Semi-circle with bar	39	668
Semi-rigid elbows	17	348
Sensor	27	486,488
Separator	17	364
Service feeding	12	147
Set of needles	10	105
Sewing yarns	10	106
Sextants	26	479
Shackle	08	98
Shackle Spike	09	101
Shackles	01	19, 22
	02	51, 56
	06	93
	08	97-99
	68	1059
Shades	46	781
Shadescreens	46	776-778, 780
Shaft Anode	43	720
Shaft line bushings	52	950-951
Shampoo	32	548
	65	1030
Shear pins	52	935
Sheath for electrical cables	14	237
Sheaves	01	26-31
	03	70
	55	971
Sheets	01	22
	06	78-88, 90
	65	1036
Shell vents	53	958
Shimming chocks	01	27
Shock absorbers	55	964
Shock cord hook	63	989-990
Shock-absorbing stoppers	38	615
Shore Power	14	194
Shower foam	32	548
Shower heads	15	253-257,260-266
Shower hoses	15	266
Shower housings	15	256-257, 262
Shower stands	15	263
Showers	15	253-258, 260-264, 266
Showers	17	355
	52	952
Shrinkforming guns	46	790
Shroud tensiometers	04	73
SHURHOLD	36	589-591, 593
Side lights	02	66-67
	11	125
Side object holders	20	411
Side pocket	20	409,412
	48	837
Sidelights	02	66
Sierra handle	38	688
Signalling buoys	30	539
Signalling lights	30	538-539
Signals	02	68
	35	577, 583
SIKA® / SIKAFLEX	65	1010-1011
Silencers	51	918-919
Silicone sealants	65	1012
Single-cable steering systems	45	751
Single-lever controls	45	749
Sink drains	50	860
Sink hose adaptors	50	860
Sinks	50	857-860,865-867
Siphon pumps	18	382
Siphon U-traps	51	918
Sirens	21	428-429
SK75	06	84
SK78	06	79-81
Ski spare parts	64	995
Ski tow	64	992-994
Skin fitting accessory	17	346, 349
Skin fittings	17	332-333, 335-336, 341-345, 347
	18	381
Sleeves	04	73
	41	691
Slides for pedestals	48	810
Slides for seats	48	811
Sliding door accessories	38	658
	46	774
SLR	39	669
Small telescopic davits	42	704
Smartphone accessories	29	532
Smart-R1	02	43
Smart-R3	02	43
Smash Lock	40	678
Smoke signals	30	536-537
Snap fasteners	10	110
Snap hooks	09	100-101
	64	993
Snap latches	38	646
Snap mounting battery terminals	14	225
Snap shackles	09	102-103
Snap-hooks	01	22
	09	103
Snapshackles	05	74
	08	99
	09	100-103
Snorkel	64	1001
Snubber	01	31
Soap	32	548
Socket	02	68
	14	192-193, 239-240, 242-245, 248

Description	Group	Page
Soft close	38	660
Soft Down Stay	38	615
Soft ice boxes	50	875
Soft shackles	08	97
Soft straps	06	92
Soft webbing bands	06	92
Soft-closing slides	38	660
Solar energy	12	143-144
Solar panels	12	143-144
Solar showers	52	952
Solar vent	53	958
Solar ventilators	53	958
Solas cartridge	17	367
Soldering tools	14	238
Sole	64	1000
Solenoids	02	46-50
Sonars	29	519, 527
Sound-deadening panels	65	1002-1004
Sound-insulating panels	65	1002-1004
Spare bases	11	123
	41	694
Spare cartridges for fuel filters	17	363
Spare filters	17	364
Spare gasket kit	50	891
Spare ogives	50	871
Spare parts	02	51, 59-68
	19	393
	22	447
	52	922
Spare parts for hatches	19	384, 392-393
Spare parts for portholes	19	393
Spare parts for portlights	19	390, 393, 401
Spare parts for trailers	02	65
Spare rollers	02	58-59
Spare sheaves for rollers	01	30-31
Spare valve kits for lifejackets	22	435
Spare valves	50	903
Spare wheel support	02	63
Spares	01	30-31
	41	694
	50	903
Spares for inflatable lifejackets	22	435
Spares for pull catches	38	641
Spares for trailers	02	66
Spares parts for hatches	19	390
Spark plug caps	52	935
Spark-plugs	47	799-800
Speakers	29	499-501
Speed discs	02	68
Speedometer hoses	27	487
Speedometers	27	483
	29	524
SPHAERA fender profiles	44	732
Spinnaker pole eye	60	985
Spiral hoses	18	374
Spliced lines	06	87
Splicing	05	75-76
	10	106-107
Splicing handbook	10	105
Splicing pliers	04	73
Splicing terminals	05	74-76
Split pins	52	935
Split rings	37	603
Sponge	36	592
	65	1008
Spotlights	13	150-152,
		154-155, 158,

Description	Group	Page
Spotlights		160-165, 167-168,
		172-173, 175-176,
		180-182, 184
Spout	17	353 -354
Spray antifouling paint for engines	65	1046
Spray gun	36	586
	65	1012
Spray hood	10	112
	46	773-774
Spray hose	36	586
Spray paint for engines	52	942-943
Spreader boots	57	977-978
Spreader caps	57	978
Spring Clips	34	569-570
Spring glass stops	19	401
Spring locks for hatches	38	647-648
Springs	01	31-33
Square line	06	85
Squeegees	36	588
SS anchor lockers	01	28
SS anchors	01	14, 16
SS bolts and screws	37	596-602
SS buckles	06	92-93
SS ceiling lights	13	161
SS chain links	01	21
SS chains	01	18-19
SS connectors	01	20, 23
SS hawseholes	01	30
SS plates	06	93
SS rings	06	93
	39	667-668
SS rollers	01	25-29
SS sheaves	01	26-27, 31
SS strakes	06	88
SS swivels	01	21
SS turnbuckles	07	94
Stabilizers	52	933-934
Stainless inspection hatch	20	415
Stainless steel anchors	01	14
Stainless steel bolts and screws	37	602
Stainless steel cutlery	48	834
Stainless steel lights	11	114,117,124-126,
		128-131, 133,
		135-137
Stainless steel pipes	41	687
Stainless steel poles	11	115-116
Stainless steel rollers	01	26, 28
Stainless steel snap shackles	09	103
Stainless steel supports	29	505
Stainless steel winches	02	56
Stanchion base	62	988
	41	690-691
Stanchions	41	690-691
Stand Up Paddle	64	996
Staple	38	631
Starting	12	147
Starting key	52	935
Startup braid	52	935
Startup handles	52	935
Stay covers	23	457
Steeing wheels	45	737
Steel anchors	01	14, 16-17, 19
Steel buckles	06	92-93
Steel chains	01	18-19 ,21
Steel connectors	01	20-21
Steel fairleads	01	25
Steel hawseholes	01	30

Description	Group	Page
Steel pins	01	19
Steel poles	11	116-123
Steel protection	06	89
Steel rollers	01	25-29
Steel shackles	01	19
Steel springs	01	32-33
Steel strakes	06	88
Steel switches	14	205
Steel swivels	01	21
Steel terminals	05	75
Steel turnbuckles	07	94
Steel windlasses	02	35, 37-42
Steering boxes	45	750-752
Steering consoles	48	838
Steering systems	45	743, 750-752, 757-758, 760
	65	1006
Steering wheel	45	740 ,743, 737-744
	69	1070
Steering-gear	03	70-71
Steps for mast	59	982
Stereo	29	496, 498
Stereo covers	29	498
Stereo systems	29	497
Stereos	29	495
Stern lights	02	67
	11	115-126,128-131, 133, 135-138
Stern plates	45	754
	47	798
Stern platforms	48	821
Sterndrive units	52	922
Stick	36	587
	60	983-984
Stickers	35	583
Stiff iceboxes	50	875
STOP GULL	35	584
Stop lights	02	65-66
Stoppers	06	90
	38	615
Storage locker	20	410-412
	48	838
Storage pocket	20	413
Stove	50	862-864
Strainers	17	348, 364, 373
	18	383
Strap kit	42	703
	46	775
	64	996
Straps	01	22
	02	57
	06	91-93
	18	377-378
	63	990
Strip shackles	08	99
Stuffing box	52	951
	14	241-242
Sub-Extreme Light	12	141
Submersible bilge pumps	16	279
Submersible lights	13	189
Submersible pumps	16	279-280, 282-284
Subwoofer	29	501
Suction pipe	52	930
Suction pump	15	269
	52	924
Sugatsune	38	650
Sunshades	46	780
Sup	64	996
	66	1052-1053
SUP board holders	42	702-703
	64	996-997
SuperCleanteak	65	1026
Super-compact antennas	29	509
Support	02	59, 62
	26	478
	29	505
Supports for covers	46	789
Supports for pads	36	592
Surf	06	81
Survival equipment	32	545-546
	47	799
SUZUKI	52	943
Swimming	64	1001
Swinging rollers	02	61
Switch	14	208
	38	648
Switch covers	14	203
Switch panels	14	210-211, 213
Switches	02	49-51
	14	200, 202-207, 212-213, 224, 248-249
	16	287
Swivelling connectors	01	19-20
Swivels	01	21
	08	99
Symbols	35	583

T

T joints	41	684-685
Table arms	48	819
Table extension universal kits	48	818
Table light	13	172,177
Table pedestals	48	812-819
Tables	48	812, 819, 831-833
	71	1078-1079
Tablet stand	71	1074
Tablets	23	458
Tabs	50	905
Tail lights	02	65
Tail sheaves	61	986
Tangled anchors	01	23
Tank brackets	52	927
Tanks	18	381-382
	52	927
Tape	65	1033 ,1042
	10	105
	46	790
Tapes for seals of portlights	19	401
Taps	17	353-358
Taps and washbasins	17	356
Taps with recess-fit housing	15	259
Tarpaulin accessories	46	781
Tarpaulin telescopic supports	46	788
Tarpaulins	46	781, 785-790
Tarpaulins for dinghies	46	788
T-connector	17	349
Teak	65	1026
	71	1071-1077,1080
Teak accessories	71	1072
Teak protection	65	1027

Description	Group	Page
Teak Super Cleaner	65	1015
TECMA	50	892, 894
Tecma seat covers	50	894
Tecma spare parts	50	893
Teflon strakes	06	89
Teflon tapes	17	345
Telescopic handle	36	592
Telescopic hooks	34	566
Telescopic ladders	49	843, 850, 853
Telescopic paddle	34	566
Telescopic rods	15	263
Tenax	10	110
Tender garage winches	02	57
Tenders	02	55-57, 59-62
Tensiometers	04	73
Tent accessories	46	773-774, 781
Tents	46	770-778, 780
Terminal boards	14	228-229
Terminals	01	19, 22
	02	51
	05	75
	14	235-236
Tessilmare	44	732-733
Thermal cameras	29	522
Thermometers	27	486
	28	490-494
Thermo-welded foot covers	52	933
THETFORD	50	887
Thimble	05	76
	01	22
	06	87
Thinners	65	1041
Threaded tubes	50	871
Three-way valves	17	349
Through hull drains	17	347
Thru-hull fittings	17	349
Thru-hull scoop strainers	17	333, 336, 344
Thruster adapters	02	53
Thruster controls	02	53
Thrusters	02	51-54
Tie down straps	63	991
Tie straps	37	605
Tiger	15	253, 257, 262
Tiller extension	60	983-984
Tiller lock	67	1057
Tilting supports	29	505
T-joint	45	763
Toerail	62	988
Toggle handle actuators	14	207
Toggle switch	14	204-206
TOHATSU	52	943
Toilet accessories	50	897
Toilet box	20	413
Toilet brush holder	50	904
Toilet brushes	50	904
Toilet filters	50	904
Toilet hoses	18	374
Toilet macerators	50	902
Toilet paper	50	905
Toilet paper holder	50	904
Toilet pipe fittings	50	891
Toilet products	50	905
Toilet spare boards	50	891
Toilet steps	49	851
Toilet U-traps	50	904
Toilet valves	50	903
Toilets	17	356
Toilets	50	887-891, 894-898, 902, 905
	52	927
Toilets locks	38	635
Tool	14	227
Tools	08	99
Tool bags	47	798
Tool boxes	47	799
Topside lights	13	188
Torch	12	140-142
Toreail	62	988
Touch-control	14	212
Tow balls	02	62
Towable tubes	64	998-1000
Towing	47	794
Towing hooks	40	682
Towing rollers	47	796
Towing wheels	47	795
Track lights	13	172
Track sliders	61	986
Tracking systems	29	535
Tracks	62	987-988
	68	1062
Traditional anchors	01	17
Trailer accessories	14	247
Trailer straps	63	991
Trailers	02	65-66
Transducers	29	515-516, 521
Transfer systems	50	894
Transformers	14	219-220
Transmission bellows	43	705-706
Transmitters	27	486
Transmitters and trasducers	29	528
Transom wheels	47	795
Transport	02	59-66, 68
Trapdoor	52	927
Trapeze accessories	60	984
Trash bins	50	911
Trash compactor bins	50	911
Travellers	62	987-988
Trawl fishing	52	933
Trays	48	834
Treadmaster	65	1035
Trefoil anchors	01	14, 19
Trefoil rollers	01	26-29
Triangle with bar	39	667
Triangular hawseholes	01	30
Tricolour lights	11	113
Trim tab actuators	51	913
Trim tabs	51	912-915, 917
Trolley wheels	47	795
Trolling plate	52	933
Trousers	24	462-463
Trumpets	21	427
T-Shirt	24	461
T-TOP accessories	48	827
T-TOP covers	48	827
T-tops	48	825-827
T-Track	61	986
Tube lamps	13	172
Tube lights	13	173
Tumbler switch	14	205-206
Tuners	29	496-497
Tunnels	02	52-53
Turnbuckle protections	23	457
Turnbuckle terminals	05	75
Turnbuckles	07	94-96

Description	Group	Page
TV antennas	29	502-505
Twist connectors	01	20
Two-lever controls	45	749
Type-approved lights	11	115
Type-approved tow hooks	02	63
Type-tested lights	11	114-126,128-131, 133, 135-138
Tyres for boat trailers	02	64

U

U-bolts	06	93
	39	662-663
	67	1057
U-brackets	02	60, 62
U-clamps	18	376
ULTRAFLEX	45	744, 758
UMTS/GSM antenna	29	534
Unbreakable glasses	48	834
Underplates	41	684
Under-platform sliding ladders	49	849
Underwater lights	13	189-191
	49	845
	65	1047
Underwater torch	12	141-142
UNIMER	01	31
Universal anchor lockers	01	28
Universal battery terminals	14	225
Universal chain counter radio controls	02	47
Universal chaincounter pushbutton panel	02	47
Universal Flooring	65	1034
Universal gauge	27	488
Universal handle	49	845
Universal pushbutton panels	02	47
Universal radio controls	02	47
Universal rollers	01	26-28
Universal screw studs	10	109
Universal snap mounting battery terminals	14	225
Unjammed lubricants	65	1005
Upper	64	1000
USB ports	14	248
Utility	13	180

V

Vacuum cleaners	50	872
Vacuum pumps	15	270
Valve keys	66	1051
Valves	22	447
	36	586
	50	903
	66	1051
Varnish	65	1047
Vectran	06	82
VELCRO	65	1034
VENEZIANI	65	1043
Ventilator	53	958
Vents	20	422
Vertical level sensors	27	489
VETUS	52	943
VHF antennas	29	508-511, 513
Vibration dampening supports	51	921
VICTRON	12	145
	14	216-224
VM	52	943
Voltage converters	14	223
Voltmeters	14	213
Voltmeters	27	484
VOLVO	52	943
VOLVO air filters	17	372
WAECO	50	872
Waist bags	23	454
Waistbags	47	798
Wakeboard	64	995
Wall lamp	13	164-167
Wall-mounting peaks	20	413
Washdown	16	272, 326, 330
Washdown kit	16	276
Washdown pumps	16	272, 274
Washers	17	336
	37	604
	38	658
Washing	16	272
Washing hoses	36	585
Washing system for engines	52	932
Washing up liquid	48	835
Waste	35	583
Waste hose connectors	20	421
Waste water	27	484
	50	898, 902
Waste water tanks	50	899-902
Waster holders	50	872
Water drain plug	18	379-380
Water filters	17	358-359
Water fittings	17	349
Water heaters	50	873
Water hoses	18	374
	36	585
Water level meters	27	483
Water level sensors	27	489
	50	898
Water makers	50	910
Water pipe fittings	17	345
Water plugs	18	379-381
Water quick joints	17	351-352
Water removing blade	36	590
Water skiing	64	995
Water skiing mirrors	64	994
Water skiing towing ropes	64	992-993
Water skis	64	995
Water spiral hoses	36	585
Water strainer	17	364
Water strainers	17	359
Water tanks	52	952-955
Water temperature meters	27	484
Water/fuel separator	17	364
Water/fuel separators	17	366
Waterline markers	65	1038
Watermakers	50	910
Waterproof bags	23	453
Waterproof electric boxes	14	228
Waterproof folders	23	453
Waterproof foot covers	52	933
Waterproof holders	35	582
Waterproof lighters	10	106
Waterproof lights	13	161
Waterproofer	65	1022
Waterproofs	24	464
Waterprrof lamp	13	161
Water-ski towing hooks	40	682
Watersport tower	48	828
Watertight backpack	23	454
Watertight bags	23	453-456
	47	798

Description	Group	Page
Watertight boxes	47	799
Watertight ceiling lights	13	162
Watertight converters	14	192
Watertight fuse holders	14	231
Watertight lights	13	150
Watertight plugs	14	193, 244-245
Watertight rockers	14	204
Watertight sockets	14	193, 244-245
Watertight switches	14	204
Watertight terminal boards	14	228
WC	50	896-897, 905
	52	927
WC accessories	50	897
WC filter	50	904
	52	927
WC pipes	18	374
WC valves	50	903
WD-40	65	1005
Weather stations	28	492
Webbing bands	06	92-93
Webbing straps	63	991
WHALE	15	264, 267-269
	16	273-274, 281, 283, 285-287, 289-290
	17	348-350, 352, 354
	20	415
	50	902-903
Wheel locking device	02	64
Wheel support	02	62
Wheels	02	59, 63-64
	45	738, 740-742, 744
Whipping	10	106
Whistles	21	430
Winch	68	1067
Winch belts	02	56
Winch cables	02	56
Winch covers	68	1069
Winch handle pockets	57	977
Winch handles	57	977
	68	1068
Winch steel cables	02	56
Winches	01	22
	02	47, 51, 55-57
	68	1065-1069
Wind	10	106
Wind generator	12	144
Wind indicator strips	35	573
Wind meters	29	532
Wind power	12	144
Wind scoops	23	459
Wind sleeves	53	958
Wind stations	29	524-525
Windex	35	573
Windex Ready	29	508
Windlass chain counters	02	48
Windlass controllers	02	46-50
Windlass lines	01	19, 22
Windlass switches	02	49
Windlasses	01	19, 22, 26-30
	02	35-51, 55-57
Windless ropes	02	51
Windmeters	29	532
Window cleaning kits	19	406
Window rails	44	735
Window stays	38	614-615
Windproof lighters	10	106
Windscreen wiper	19	406
Windshield wipers	19	402-406
Windshields	65	1027
Wiper blades	36	588
Wireless	02	47
Wireless battery chargers	14	245-246
Wiring kits	02	54
Witches hat	03	71
Wooden accessories	71	1071-1077, 1080
Wooden surfaces	65	1026
Worktops	48	831

X

Xenon	13	182
XINTEX	31	543

Y

Yachticon	36	592
	50	905
	52	956
Yachticon	65	1013-1018
Yachticon telescopic handle	36	592
	50	905
Yamaha	17	373
YAMAHA	52	942
YANMAR	52	942

Z

Zincs	43	707-730

How to choose the right antifouling

OSCULATI

Osculati antifouling paints do not contain copper and therefore are fit **for any kind of hull** (fiberglass, aluminium, wood, etc.).

Both **self-polishing** and **hard-matrix** antifouling paints are available on the market:

- Self-polishing antifouling paints are gradually subject to wear over time and therefore help maintain the hull clean. They are meant to last all season if applied on sailboats and not too fast boats (up to 25 knots).
- Hard-matrix antifouling paints will not wear out through use and therefore their function is essentially chemical. Suitable for fast boats (over 25 knots) and long cruises.

HARD-MATRIX

- good abrasion resistance
- for boats whose speed is > 25 knots

SELF-POLISHING

- smooth surface and good film solubility
- for sailing or motor boats whose speed is < 25 knots

Boat type		Hard matrix		Self-polishing matrix	
		HM-Classic 153 65.611.xx	HM-Premium 365 65.612.xx	SP-Classic 153 65.601.xx	SP-Premium 365 65.602.xx
Always in water			X		X
Seasonal use		X		X	
Up to 25 knots	Fiberglass			X	X
	Wood			X	X
	Steel			X	X
	Aluminium			X	X
Over 25 knots	Fiberglass	X	X		
	Wood	X	X		
	Steel	X	X		
	Aluminium	X	X		
Fresh water		X	X	X	X
Salt water		X	X	X	X

N.B. Prior to the antifouling paint always apply 2 coats of Primer Sealer 65.620.10/20 or 1 coats of two-component epoxy Primer 65.621.10/20

Application: approximate liters of 2 coats of antifouling paint

Meters lenght		6	7	8	9	10	11	12	13	14	15
Liters	Sail boat	3	3	4,5	5,25	6	6,75	8,25	9	10,5	12
	Motor boat	3	4,5	6	7,5	9	10,5	12,75	14,25	16,5	18

See pages 1040 - 1042

Notes

NEMO series

navigation lights

RINA certified for boats up to 20 m

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