

Manholes, hatches and portholes

PORTHOLES - GLASS STOPS - MANHOLES - DARKING TENTS - WINDSCREEN WIPERS -
CLEAR VIEWERS - GLASS CLEANER KIT - LIGHT RISER

19



'CONTOUR" low profile genuine 'USA BOMAR manholes"



Made of **light alloy white paint** epoxy resins and fitted with smoked tempered glass; complies with EC standards; **invisible** hinges fitted onto the profile, opening with hinged stoppers and ventilating position.

Code	Opening mm	Aperture required mm	outer mm	counterflange internal trim	Fly screen	Shades	Overhang mm	external handle kit
19.720.01	248x248	275x275	343x343	19.720.07	19.720.15	19.720.20	24	19.715.02
19.720.02	315x445	340x470	410x540	19.720.08	19.720.16	19.720.21	24	19.715.02
19.720.03	395x395	420x420	491x491	19.720.09	19.720.17	19.720.22	24	19.715.02
19.720.04	445x445	470x470	540x540	19.720.10	19.720.18	19.720.23	24	19.715.02
19.720.05	490x490	515x515	584x584	19.720.11	19.720.19	19.720.24	24	19.715.02
19.720.06	610x610	640x640	708x708	19.720.12	19.720.30	-	24	19.715.02



- All BOMAR's manholes can be painted with a reasonable quantity of a desired colour;
- the genuine BOMAR 'SUN-SHADES" are designed for mounting on the manholes in a matter of minutes; slide locking; with a special knob, the tabs that are initially overlapping each other, divide in two and make the passage of light and heat; available for all BOMAR's manholes, references are indicated on the table.



▲ 19.720.04 + 19.720.23



Genuine low profile BOMAR 'CONTOUR" circular model manhole



Made of **light alloy, white lacquered** with epoxy resins, hinged opening, smoked tempered glass; EC type approval.

Code	Opening mm	Aperture required mm	outer mm	counter-flange internal trim	Fly screen	Shades	external handle kit	Overhang mm
19.724.00	277	306	376	19.724.11	19.724.16	19.724.20	19.715.02	24
19.724.01	395	420	492	19.724.12	19.724.17	19.724.21	19.715.02	24
19.724.02	493	518	588	19.724.13	19.724.18	19.724.22	19.715.02	24



All BOMAR's manholes can be painted with a reasonable quantity of colour; the genuine BOMAR 'SUN-SHADES" are designed for mounting on the manholes in a matter of minutes; slide locking; with a special knob, the tabs that are initially overlapping each other, divide in two and make the passage of light and heat; available for all BOMAR's manholes, references are indicated on the table.



Outside handle kit for Contour Bomar hatch

Code	for manholes
19.715.02	19.720.01-02-03-04-05-06; 19.724.00-01-02

Manhole Bomar 'Voyager'

AISI 316

Fitted with **white lacquered light alloy** base, **mirror polished AISI 316 stainless steel** hatch, **smoked polycarbonate** clear part.

Code	opening mm	size mm	outer mm	counterflange internal trim optional	Version	SunshadeMos quitotent optional
19.717.03	410x410	420x420	470x470	19.720.13	-	19.717.23
19.717.05	502x502	515x515	560x560	19.720.11	-	19.717.25
19.717.06	627x627	640x640	686x686	19.720.12	-	-
19.718.02*	507	516	566	19.724.13	circolare	



* All BOMAR's manholes can be painted with a reasonable quantity of colour;



Sunshade/fly screen

Code	for manholes
19.717.23	19.717.03
19.717.25	19.717.05
19.718.22	19.718.02



Genuine 'USA BOMAR' 'FLUSHDECK' manholes

Made of **polycarbonate**; fitted with snap-in safety handles, closing from the inside, smoked polycarbonate glass.

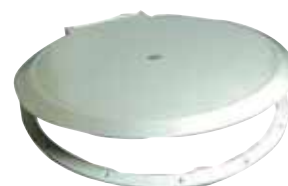
Code	Size mm	Colour	outer mm	size mm	Net light mm
19.910.10B	25	white	304x302	262x262	230x230
19.910.10N	25	black	304x302	262x262	230x230
19.927.10B	25	white	394x521	330x454	318x445
19.927.10N	25	black	394x521	330x454	318x445
19.966.10B	25	white	480x480	428x428	414x414
19.966.10N	25	black	480x480	428x428	414x414
19.995.10B	25	white	570x570	501x501	489x489
19.995.10N	25	black	570x570	501x501	489x489

BOMAR
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Genuine 'USA BOMAR' 'FLUSHDECK' manholes

Made of **polycarbonate**; fitted with snap-in safety handles, closing from the inside, smoked polycarbonate glass.

Code	Size mm	Colour	Version	Frame	glass	outer mm	size mm	Net light
19.715.00	25	white	round	white	polycarbonate	360	306	292

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BOMAR
BOMAR


▲ 19.224.01/03



▲ 19.224.01/03



▲ 19.224.01/03



▲ 19.229.00

Genuine BOMAR porthole; FLAGSHIP series.
AISI 316


Made of mirror polished AISI 316 stainless steel, features:

- 1) Invisible external screws;
- 2) Underlined water drain angle;
- 3) Fitted with counterflange and fly screen;
- 4) Adjustable lock wing nuts (no overhanging parts);
- 5) Tinted acrylic; 6) **EC approved under area 1 category 1**;
- 7) **Special mounting system: the porthole is coupled with the counterflange with just one quick operation, which means shipyard labour cost savings.**

Code	Type	External mm	recess mm	Net light mm	topside thickness mm
19.229.00	elliptical	460x200	415x155	375x115	6/32
19.228.96 new	elliptical	457x197	432x171	359x98	6/32
19.228.99	elliptical	492x216	470x194	397x120	6/22
19.224.01	oval	400x200	375x175	311x111	10/22
19.224.03 new	oval	438x210	412x184	348x121	10/22

new 19.228.80 Special counterflange for 19.228.99 to mount on bulwarks, gap 20/32 mm


▲ 19.228.96



▲ 19.228.96



▲ 19.228.96



▲ 19.229.00

Genuine "SCM" ELLIPTICAL shape porthole
AISI 316

Made of mirror polished AISI 316 stainless steel, counterflange with invisible screws; 10 mm plexiglas fly screen; smoked acrylic transparent part; colour bronzed.

Code	outer mm	Recess size mm	Net light mm	wall thickness mm	EC type approval	
					area	category
19.229.01	510x250	460x200	420x160	20/25	0	1


Genuine SCM "OVAL" shape porthole.
AISI 316

Made of mirror polished AISI 316 stainless steel; fitted with counterflange "Perspex".



Code	outer mm	recess size mm	Net light mm	wall thickness mm	EC type approval		Colour	Thickness mm
					area	category		
19.230.00	410x210	360x160	320x120	20/25	2	1	Bronzed	-
19.230.01	460x260	410x210	370x170	20/25	2	1	Bronzed	-


Genuine "American BOMAR" nylon ELLIPTICAL portholes

Includes fly screen, high resistant polycarbonate glass and stainless steel bolts and screws.

black	white	Net light mm	Size mm	outer mm	Neck mm
19.616.00N	19.616.00B	150x406	165x419	203x470	38
19.819.00N	-	171x432	203x483	254x523	38
19.515.00N	19.515.00B	84x352	90x359	146x415	28



new

Genuine BOMAR FLAGSHIP series portholes



Fitted with **nylon** body, finishing external ring and fly screen; adjustable locks; tinted acrylic; mounting with **invisible** screws; topside thickness 6-35 mm; EC type-approved.

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BOMAR

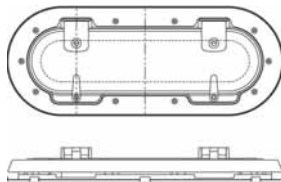
Code	Colour	Shape	external size mm	Cut mm	initial
19.510.21	White	oval	141x357	116x332	614
19.510.22	White	oval	216x444	191x419	620
19.511.21	White	elliptical	160x425	135x400	615
19.511.22	White	elliptical	209x468	184x443	618
19.511.24	White	elliptical	173x415	148x489	621



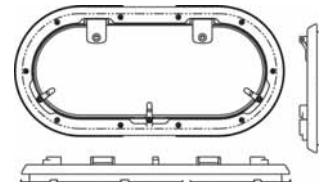
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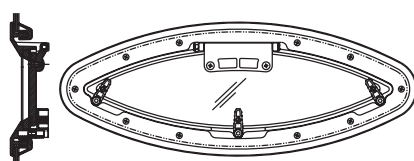
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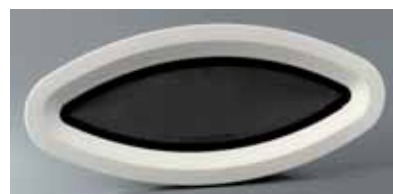
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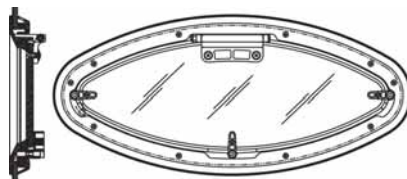
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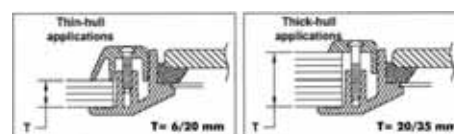
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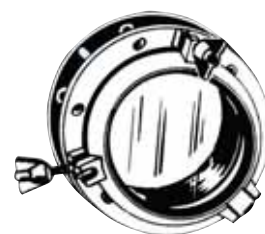
19.511.22



CIRCULAR porthole

Elegant shape, functional, fitted with plexiglas.

Code	Material / Colour	type of closing	Net light Ø mm	external size mm
19.750.01B	nylon/bianco	wing	135	220
19.750.01N	nylon/nero	wing	135	220
19.750.02B	nylon/bianco	wing	185	270
19.750.02N	nylon/nero	wing	185	270
19.750.03B	nylon/bianco	wing	235	320
19.750.03N	nylon/nero	wing	235	320



Portholes

Rust-proof, fitted with nylon counter-ring; built-in water drainer; includes screws.

Code	Material/ Colore	Glass made of	Version	Net light mm	external size mm
19.696.00B	white nylon	plexiglas	removable	320x120	400x200
19.696.00N	black nylon	plexiglas	removable	320x120	400x200
19.696.02N	black nylon	plexiglas	removable	415x165	500x250
19.696.02B	black nylon	plexiglas	removable	415x165	500x250



'LEWMAR" manholes

Made of anodized aluminium and tinted glass, 180° opening, self-locking in any position thanks to its built-in friction system. Features: - internal and external opening handles already installed; - ventilation locking position; - anti-intrusion safety lock; - replaceable glass. Customizable porthole versions made upon request.

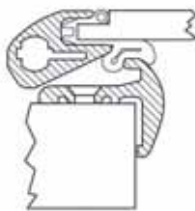
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'LOW PROFILE" series - rectangular models



- Overhang part of just 25 mm from the deck; type approved by EC standards for AREA 2.

Version with		Model	Frame overhang recess mm	↔ external mm				↔ cut (change if you use the frame) mm			Kg	Acrylic thickness mm	Hatche finishing couter frames + mosquito net
holding arm	stay up glass			X	Y	Z	R	X1	Y1	R1			
-	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
19.411.30	19.410.30	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	
19.411.44	19.410.44	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
19.411.60	19.410.60	60	15	577	577	25	72,5	507	507	42,5	6,4	10	19.413.60



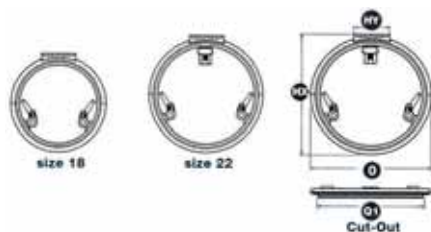
* Misure minime regolamentari EC per uscite di emergenza

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'LOW PROFILE" series - rounded models



- Overhang part of just 25 mm from the deck; type approved by EC standards for AREA 2.



Code	Model	Recess flange size mm	↔ external mm			↔ cutting measures (they can vary if the couterflange is used) mm		Kg	Acrylic thickness mm	Finish counterflange + mosquito net
			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

'OCEAN" series

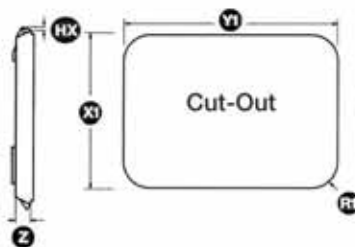
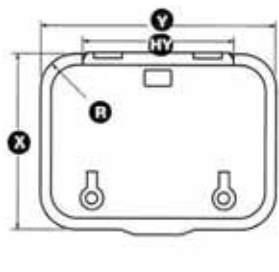


Classical model, very sturdy; for many years now it has been chosen for thousands of boats all over the world; EC approved for AREA 2.

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Code	Model	external mm						cutting measures (they can vary if the counterflange is used) mm			Kg	Acrylic thickness mm	Finish counterflange
		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



new

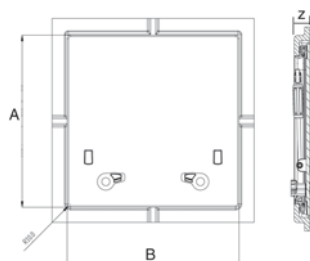
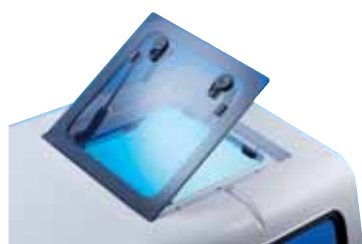
'Flush Hatch" series - Square shape

LEWMAR®



Deck installation with specially made hollow parts: clean aggressive look, can get rid of dangerous overhanging parts, using deck space wisely. Main features: - **no visible frame**; the only visible part on the deck is the black 10 mm Perspex board; - lacquered **anodized aluminium** frame; - **holding arm**, can be locked in any position up to a maximum of 90°; - tinted glass available upon request; - external lever models can also be used as a **escape hatch**; - EC approval under area 2A. Compatible with fly-screens, counterflanges and Lewmar frames.

Code	Model	Thickness for recess fit Z mm	external AxB mm	size mm	Kg	Acrylic thickness mm	counterflange kit
19.440.10	10	31	330x330	260x260	2,6	10	-
19.440.44	44	31	512x512	442x442	5,8	10	19.413.44
19.440.60	60	31	577x577	507x507	6,7	10	19.413.60



new

'Flush Hatch" series - round shape

LEWMAR®

Deck installation with specially made hollow parts: clean aggressive look, can get rid of dangerous overhanging parts, using deck space wisely. Main features: - **no visible frame**; the only visible part on the deck is the black 10 mm Perspex board; - lacquered **anodized aluminium** frame; - **Holding arm**, can be locked in any position up to a maximum of 90°; - tinted glass available upon request; - external lever models can also be used as a **escape hatch**; - EC approval under area 2A. Compatible with fly-screens, counterflanges and Lewmar frames.

Code	Model	Thickness for recess fit Z mm	Ø external A mm	Ø frame B mm	size mm		Acrylic thickness
					Ø Y	X	
19.440.18*	18	31	490	500	420	194	10
19.440.22	22	31	590	600	518	240	10
19.440.27*	27	31	690	700	619	291	10

*Models available upon request Frames, fly-screens and counterflanges are not compatible with Flush Hatch round shape models.



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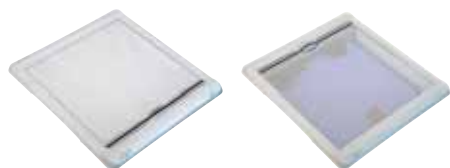


Finishing counterflange and fly screen

Suitable for all hatch series, colour white (ivory colour available upon request); includes fly screen.

Code	for pothole models	max deck thickness with series		min deck thickness with seriesmin deck		for portholes models
		Low	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 19.420.60 19.421.60 19.440.60
19.413.70	70	-	72	-	25	19.420.70

LEWMAR®



Shading tent + roll-up fly screen Lewmar

Compatible with all Lewmar series, also adaptable to **any** brand and type of hatch; fitted with special system that ventilates even when the shading tents are closed; colour white, easy to install.

Code	for Lewmar portholes	AxB mm	for manhole with max opening mm
19.427.30	30	465x542	457x327
19.427.40	40	556x506	421x421
19.427.44	44	580x528	442x442
19.427.54	54	531x592	392x507
19.427.60	60	645x592	507x507
19.427.70	70	765x712	627x627



LEWMAR®



Stainless steel round porthole

AISI 316



Made of AISI 316 stainless steel; supplied with **finishing counterflange made of chromed ABS, mounting screws** and smoked glass; ring nut installation with threaded holes eases the mounting requiring only one person;. 180° opening; EC approved under category B Area 1.

Code	outer mm	Size mm	Light mm	For boats with thickness
19.431.25	250	230	160	from 8 to 24 mm

Lewmar 'Standard' porthole series

EASY TO
INSTALL

The most widespread product sold throughout the globe for sailing boats, thanks to its high quality finish; fitted with built-in friction hinges, quick and secure handles; supplied with **finishing white ABS counterflange** (ivory colour available upon request), includes **mounting screws and fly screen**, smoked glass; ring nut installation with threaded holes eases the mounting requiring only one person; EC approved for AREA 2.

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Code	Model	←→ esterne mm				←→ di taglio mm				Spessore acrilico mm	Zanzariera di ricambio
		X	Y	Z	R	X1	Y1	R1			
19.430.00	0	176	323	4	62	156	303	52	1,1	8	19.433.00
19.430.10	1	191	367	4	62	171	347	52	1,3	8	19.433.10
19.430.18	1RE	191	367	4	95	171	347	85,5	1,3	8	19.433.18
19.430.20	2	176	425	4	62	156	405	52	1,4	8	19.433.20
19.430.30	3	191	449	4	62	171	429	52	1,7	10	19.433.30
19.430.40	4	191	646	4	62	171	637	52	2,4	8	19.433.40

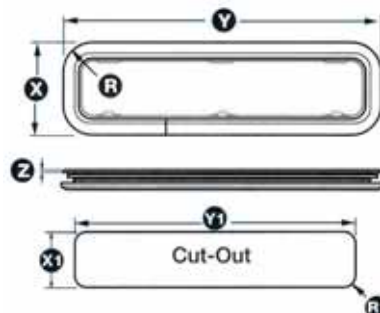
Cerniere frizionate
consentono di lasciare aperto
l'oblò in qualsiasi posizione e
non hanno parti soggette a
corrosione

Flangia interna ed esterna
in alluminio anodizzato a
spessore per la massima
resistenza alla corrosione

Maniglie rapide
non soggette a manutenzione e non
risentono delle vibrazioni sia aperte
che chiuse

Il design del profilo previene
l'entrata dell'acqua anche
quando montati su superfici
inclinate

a richiesta: controflangia colore avorio vetro chiaro, bianco o opaco



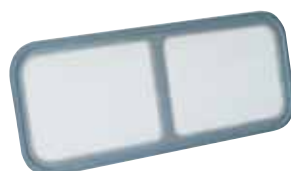
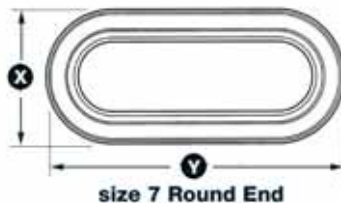
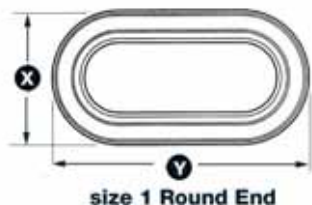
Stainless steel portholes

AISI 316



Made of mirror polished stainless steel, fitted with friction hinges and quick-release handles; modern, very clean look thanks to the hinges positioning and holes from the inner and outer visual field; supplied with chromed ring, studs size M5 x 20 (for bulkheads with thickness of 17/21 mm) and with removable fly screen; **EC approved for areas 1B and 2A.**

Code	Model	External size mm			Size mm		Bulkhead thickness			acrylic glass thickness mm
		X	Y	Z	X1	Y1	Max	Min		
19.430.80	8	196	452	4	176	432	30	9	1,9	10
19.430.82	1 RE	191	367	4	171	347	30	9	1,7	10
19.430.84	7 RE	191	425	4	171	405	30	9	1,9	10



LEWMAR®



LEWMAR®**new****Ventilator**

19.041.01 Made of reinforced plastic, exchanges air and keeps water from getting through; can be mounted onto the hatch glass or on the deck; universal model, EC approval.

**LEWMAR®****new****Hatch replacement parts for "Low Profile" series**

Suitable for hatches manufactured after 1998 (indicated on the plexiglas code A399XX03...)

For hatch model	Friction	Gasket	Hinge Kit	Locking lever		Plexiglas*
				right	eft	
00	-	19.901.00	19.903.05	-	19.910.01	-
03	-	19.901.03	19.903.05	-	19.910.01	-
10	-	19.901.10	19.903.05	-	19.910.01	19.902.10
18	-	19.901.18	19.903.05	19.910.04	19.910.03	-
20	-	19.901.20	19.903.05	-	19.910.01	19.902.20
22	19.903.01	19.901.22	19.903.05	19.910.04	19.910.03	-
30	19.903.01	19.901.30	19.903.05	19.910.04	19.910.03	19.902.30
40	19.903.01	19.901.40	19.903.05	19.910.04	19.910.03	19.902.40
44	19.903.01	19.901.44	19.903.05	19.910.04	19.910.03	-
50	19.903.01	19.901.50	19.903.05	19.910.04	19.910.03	-
54	19.903.01	19.901.54	19.903.05	19.910.04	19.910.03	-
60	19.903.01	19.901.60	19.903.05	19.910.04	19.910.03	19.902.60
65	19.903.01	19.901.65	19.903.05	19.910.04	19.910.03	-



*Plexiglas for models without product codes are available upon request

LEWMAR®**Replacement parts for "Medium Profile" hatches**

Suitable for hatches manufactured after 1998 (can be identified from the plexiglas code A399XX02...)

for porthole models	Friction	guasket*	hinge Kit	locking lever	
				Right	Left
30	19.903.01	19.911.30	19.903.05	19.910.04	19.910.03
40	19.903.01	19.911.40	19.903.05	19.910.04	19.910.03
44	19.903.01	19.911.44	19.903.05	19.910.04	19.910.03
50	19.903.01	-	19.903.05	19.910.04	19.910.03
54	19.903.01	19.911.54	19.903.05	19.910.04	19.910.03
60	19.903.01	19.911.60	19.903.05	19.910.04	19.910.03
65	19.903.01	-	19.903.05	19.910.04	19.910.03
70	19.903.01	-	19.903.05	19.910.04	19.910.03
77	19.903.01	-	19.903.05	19.910.04	19.910.03



*Seals for models without corresponding code are available upon request

LEWMAR®**new****Ocean series hatches spare parts**

For hatch model	Friction	Gasket*	Locking lever	
			right	left
10	19.903.02	-	-	19.910.07
20	19.903.02	19.921.20	-	19.910.07
30	19.903.03	19.921.30	19.910.06	19.910.05
40	19.903.03	-	19.910.06	19.910.05
44	19.903.04	-	19.910.06	19.910.05
50	19.903.04	19.921.50	19.910.06	19.910.05
54	19.903.04	-	19.910.06	19.910.05
60	19.903.04	19.921.60	19.910.06	19.910.05
70	19.903.04	19.921.70	19.910.06	19.910.05
77	19.903.04	-	19.910.06	19.910.05



*seals for models without product codes are available upon request; hinge kit available upon request; replacement plexiglas is no longer manufactured



new

Spare parts for standard portholes

Suitable for standard portholes: - **New series:** manufactured after 1997 (indicated on the snap-in lever and on the plexiglas code SZX2...) - **Old series:** manufactured from 1982 up to 1998 (indicated on the **L** lever).

Porthole model	For standard porthole NEW SERIES*						For standard porthole OLD SERIES**		
	Frame	Seal	Locking lever right	Locking lever left	For standard porthole NEW	Fly screen	Gasket	Locking lever right	Locking lever left
0	19.933.00	19.931.00	19.910.00	19.910.00	19.932.00	19.433.00	19.912.00	19.910.08	19.910.09
1 RE	-	-	19.910.00	19.910.00	-	19.433.18	-	-	-
1	19.933.10	19.931.10	19.910.00	19.910.00	19.932.10	19.433.10	19.912.10	19.910.08	19.910.09
2	19.933.20	19.931.20	19.910.00	19.910.00	19.932.20	19.433.20	19.912.20	19.910.08	19.910.09
3	19.933.30	19.931.30	19.910.00	19.910.00	19.932.30	19.433.30	19.912.30	19.910.08	19.910.09
4 DX	-	19.931.45	19.910.00	19.910.00	-	-	-	19.910.08	19.910.09
4 SX	-	19.931.45	19.910.00	19.910.00	-	-	-	19.910.08	19.910.09
4	19.933.40	19.931.40	19.910.00	19.910.00	19.932.40	19.433.40	19.912.40	19.910.08	19.910.09



* **NEW SERIES:** seals, frames, fly-screens and plexiglas for portholes models without corresponding codes are available upon request

** **OLD SERIES:** - **Seals** for portholes models without corresponding codes are available upon request

- **Plexiglas** available upon request - **Frames and fly-screens** are no longer made

"OVAL" portholes

Made of **chromed brass**, fitted with back **watertight** ring, quick snap locking.

Code	Net light	recess size Ø	Ø all out	Net neck size mm
19.698.01	100x225	102x230	150x280	20/43
19.698.02	115x330	120x340	160x380	20/50
19.698.03	120x430	125x435	170x482	20/50



Small 'OVAL' portholes

Made of **chromed brass**, fitted with back **watertight** ring, locking with wing nuts.

Code	Net light	recess size Ø	Ø all out	Net neck size mm
19.698.04	58x185	75x210	108x245	21



Large 'OVAL' portholes

Made of **chromed brass**, fitted with rear **watertight** ring, locking with wing nuts.

Code	Net light	Ø Recess size	Ø all out	Net neck size mm
19.698.05	170x340	95x365	65x435	20/70



'ROUND' portholes

Made of **chromed brass**, fitted with rear **watertight** ring, wing nut locking.

Code	Net light	Ø Recess size	Ø all out	Net neck size mm
19.697.01	165	195	268	20/50
19.697.02	200	230	300	20/50
19.697.22	345	382	480	20/70



'ROUND' porthole with thin edge

Made of **chromed brass**, fitted with rear **watertight** ring, wing nut locking.

Code	Net light	Ø Recess size	Ø all out	Net neck size mm
19.697.03	100	125	150	12
19.697.04	125	152	180	12
19.697.05	150	177	200	12





ELLIPTICAL portholes

Made of **chromed brass**, fitted with safety glass, quick adjustable lever locking and external flaring to prevent water stagnation.

Code	Net light	Ø Recess size	Ø all out	Net neck size mm
19.695.00	138x404	205x485	240x510	10/25
19.695.01	105x340	172x410	190x425	10/20



Genuine 'VEMEFA' portholes

Made of mirror polished **stainless steel**, fitted with counter-ring; snap-in locking, watertight.

Code	Telescopic neck	Net light mm	all out mm
19.070.01	from mm 5/17	100	165
19.070.02	from mm 5/17	125	190
19.070.03	from mm 5/17	150	215



Manhole

Made of **brass, watertight**; plexiglas anti-shock transparent part; opening from the outside and from the inside.

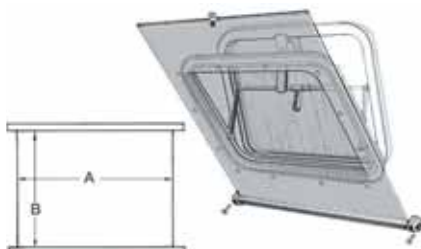
Code	Recess size mm	Net light mm	Passage mm
19.699.01	500x500	455x455	490x490
19.699.02	440x440x400	400x400x360	435x435x395 (trapezoidal)



Night shading tents 'CLIMAVISION MARE'

Fitted with **lacquered light alloy** body with epoxy resin; **stainless steel** springs. Darkening polyester fabric, with **silver metallized** external side to ensure complete darkness at night and solar light reflection during the day; designed for mounting under portholes in a matter of seconds without making any modifications.

white	cream	A mm	B mm	suitable for manholes or hatches max. Net light mm
19.359.01	19.358.01	360	400	330x330
19.359.02	19.358.02	450	500	410x410
19.359.03	19.358.03	500	600	460x500
19.359.04	19.358.04	550	650	510x550
19.359.05	19.358.05	680	780	620x680



Hatch hook chain

Provides the exact length required and eliminates the need for one or two chain rings.

Code	Material	Length mm
19.132.70	chromed brass	250



Spring glass stop

Code	Material	for glass or plexiglas	Ø mm	Length mm
19.198.00	chromed brass	from mm 5 to mm 12	22	44

Adhesive tape for portholes, manholes, windows seals etc.

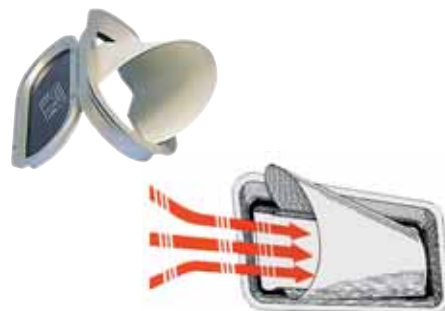
Designed to make **watertight** openings.

Code	Material/ Colour	thickness mm	Width mm	Length m	
19.114.00	black expanded PVC	3	19	3	blister psp
19.114.01	black expanded PVC	6	25	3	blister psp
19.115.15	black expanded PVC	10	15	5	busta o.
19.115.20	black expanded PVC	10	20	5	busta o.

**Universal air flow conveyor suitable for any type of porthole**

Made of **white plastic**, compact size, can be installed and removed in a matter of seconds, provides optimal ventilation for cabins.

Code	mm flattened
19.041.00	350x400

**'TMC' windshield wipers**

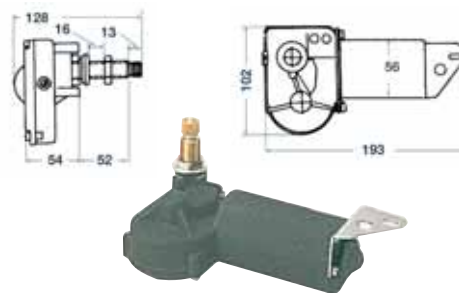
Fitted with **stainless steel** body; automatic standby position, powerful motor.

Code	Volt	Telescopic arm size mm	Brush size mm
19.152.50	12	200/280	280
19.152.51	12	270x350	350

**High quality watertight windshield wipers 'TMC'**

Rust-proof, for mounting onto bulkheads up to thickness of 50 mm, high power motor for long lasting hours of operation, fitted with adjustable cams for different angles: 80°- 100°- 110°- 120°, stall force 100 kgf/cm; automatic standby position.

Code	Volt	Colour
19.172.40	12	black paint
19.172.41	24	black paint

**High quality watertight windshield wipers 'TMC'**

New **streamline** model, fitted with **engineering polymer** 'UV' resistant white body; striped **brass** shaft, fits glass frame thickness up to 40 mm.

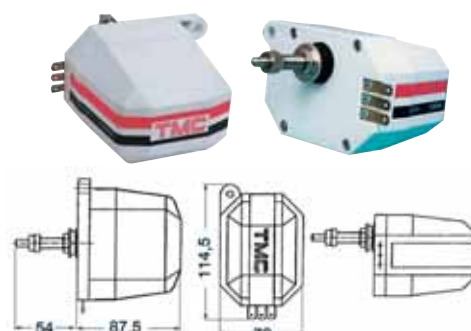


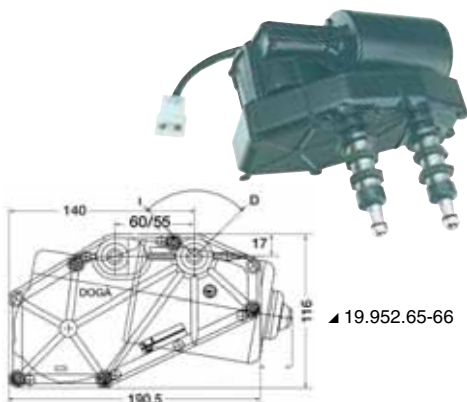
Code	mm	max torque	protection edges adjustable	Speed	Automatic return	Per spazzole e bracci	Volt
19.175.12	210x110x68 spessore	100 Kgf/cm	83-100-110-120°	2	a 0	19.152.14/15/16/36/45/55; 19.112.12/14/16/18/20/24	12
19.175.24	210x110x68 spessore	100 Kgf/cm	83-100-110-120°	2	a 0	19.152.14/15/16/36/45/55; 19.112.12/14/16/18/20/24	24

New streamline watertight windshield wipers.

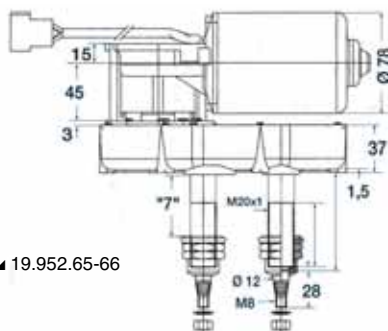
Stainless steel bracket and brushes.

Code	protective edge	automatic return	telescopic arm mm	brush mm
19.151.52	110°	a 0°	250/280	280
19.151.53	110°	a 0°	300/350	350





▲ 19.952.65-66



▲ 19.952.65-66

Genuine marine 'DOGA' windshield wipers

Heavy duty, suitable for large hulls where it requires a wiper with a length of 500 or 700 mm; fitted with brush size from 500 to 700 mm. Torque of 25 Nm; automatic stop; stop angle 72° (angles 60°, or 80°, supplied upon the requested specification, minimum of 10 pieces)); stroke of 50/minute; **black chromed watertight** body.

Code	Volt
19.950.62	12
19.950.63	24

Genuine marine 'DOGA' windshield wipers

Heavy duty, suitable for large hulls where it requires a wiper with a length of 800 or 1000 mm; fitted with brush size from 800 to 1000 mm. Torque 50 Nm; automatic stop; stop angle 72° (angles 60°, or 80°, supplied upon the requested specification, minimum of 10 pieces)); stroke of 50/minute; **black chromed watertight** body.

Code	Volt	stop on
19.952.65	24	left
19.952.66	24	right



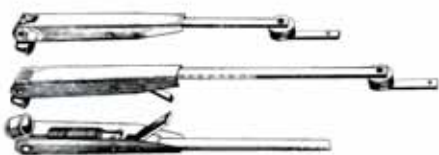
Black chromed stainless steel windshield wipers, fitted with washing spray

Code	Length mm	for windshield wipers	Code	Length mm	for windshield wipers
19.401.02	700	19.950.62/63	19.403.05	800	19.952.65/66
19.401.03	600	19.950.62/63	19.403.07	900	19.952.65/66
19.401.04	500	19.950.62/63	19.403.09	1000	19.952.65/66



Chromed stainless steel black brushes

Code	Length mm	for windshield wipers	Code	Length mm	for windshield wipers
19.616.50	500	19.950.62/63	19.620.08	800	19.952.65/66
19.616.60	600	19.950.62/63	19.620.10	1000	19.952.65/66
19.617.70	700	19.950.62/63			



Stainless steel telescopic wipers

Code	for windshield wipers	fpr coupling with brush	adjustable
19.152.14	19.172.40/41; 19.362.11; 19.175.12/24	19.112.12/14/16/18/20/24	from mm 280 to mm 360
19.152.15	19.172.40/41; 19.362.11; 19.175.12/24	19.112.12/14/16/18/20/24	from mm 360 to mm 480
19.152.16	19.172.40/41; 19.362.11; 19.175.12/24	19.112.12/14/16/18/20/24	from mm 457 to mm 610



Stainless steel parallelogram arms for windshield wipers

Code	for windshield wipers	fpr coupling with brush	Length mm
19.152.36	19.172.40/41; 19.362.11; 19.175.12/24	19.112.12/14/16/18/20/24	305/360
19.152.45	19.172.40/41; 19.362.11; 19.175.12/24	19.112.12/14/16/18/20/24	381/432
19.152.55	19.172.40/41; 19.362.11; 19.175.12/24	19.112.12/14/16/18/20/24	432/560



Stainless steel blades with special silicone flaps

Code	for windshield wipers	Length mm
19.112.12	19.172.40/41; 19.362.11; 19.175.12/24	305
19.112.14	19.172.40/41; 19.362.11; 19.175.12/24	356
19.112.16	19.172.40/41; 19.362.11; 19.175.12/24	405
19.112.18	19.172.40/41; 19.362.11; 19.175.12/24	457
19.112.20	19.172.40/41; 19.362.11; 19.175.12/24	505
19.112.24	19.172.40/41; 19.362.11; 19.175.12/24	600 (nylon)

Hand windshield wipers

19.150.00 Made of **chromed brass** with **stainless steel** arm and 280 mm neoprene blade.

**Windshield wiper control switch, fitted with two-speed adjustment.**

19.752.28 Suitable for 12 V windshield wipers, fitted **with** automatic standby position.

**Universal "intelligent" windshield wiper switches.**

Universal 12/24 Volt, backlight LED light, look and flush mount sizes identical to genuine USA 'CARLINGSWITCH' switches. **Version for 1 windshield wiper** Features: " On/off position; " 3 intermittent levels indicated by LED lights; " 2 speed levels; " Washing cycle; " Automatic park position; " Dimmer to adjust the light intensity level. **Version for 2 windshield wipers** Features: " On/off position; " Automatic synchronization of two wipers; " One wiper may be activated individually; " 3 intermittent levels; " 2 speed level; "Washing cycle; " Automatic parking position; " Dimmer to adjust the light intensity level.

Code	Version for
19.754.01	1 windshield wiper
19.754.02	2 windshield wipers

**Glass cleaning kit**

Fitted with **polyethylene** tray and motor with 12 V pump, includes bracket, pipe and two spray evaporators; specially designed for the nautical sector, to be used together with our windshield wipers available in our catalogue.

Code	←→	Litri
19.105.00	22x10x13	2,8

**Genuine "Doga" high quality windshield wiper system**

Designed for large size wipers (series 19.950.../19.952. and similar types Ancor or Speich).

Code	Description
19.106.12	tank size 9,7 litri, 12 V, with 2 pumps (for 2 wipers)
19.106.24	tank size 9,7 litri, 24 V, with 2 pumps (for 2 wipers)
19.107.24	tank size 9,7 litri, 24 V, with 3 pumps (for 3 wipers)
19.108.00	PVC pipe size mm 5 for windshield washeri, 24 meter coil
19.108.01	'T' joint
19.108.02	bulkhead-pass
19.108.03	check valve
19.108.04	water spray

**Light prism.**

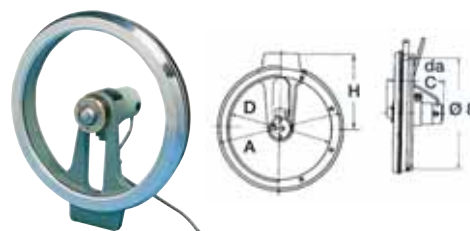
Designed for deck mounting to illuminate blind peaks and bilges.

Code	←→ mm	Frame made of
19.050.00	133x265	chromed brass

**Genuine Japanese clear viewer EIWA**

The most developed viewer available in the market; fitted with a tempered glass disk, which reaches a maximum speed of just 10 seconds; instant centrifuge system for water splashes, rain, salt, mud etc.

Code	Volt	Watt	Ø outer A mm	Net light D mm	Hole B mm	C mm	H mm	Kg	Giri min.
19.152.60	12	34	360	300	326	163	212	6	2000
19.152.61	24	34	360	300	326	163	212	6	2000



Manholes, hatches and portholes

PLUGS - FUEL VENTS - SCUTTLES - BOXES - LOCKERS -
HATCHES - SIDE POCKETS

20

Hatches, lockers and boxes made by Osculati

All hatches, lockers and boxes are made of 'Luran 'S' UV" resistant, genuine BASF product, which unlike typical ABS, it does not turn yellow over time.



Luran UV resistant inspection hatches 'PUSH PULL' version

EASY OPEN

Opening and closing with flush handle and snap-in locking system; neoprene cover gasket; 175° opening.

Code	External mm	Inner mm	Cut mm	Colour
20.303.00	380x280	295x198	310x210	<input type="checkbox"/>
20.304.00	600x350	513x265	530x280	<input type="checkbox"/>
20.305.00	400x375	320x285	320x300	<input type="checkbox"/>
20.306.00	520x465	430x375	445x390	<input type="checkbox"/>

20.094.00 Locking kit for "push-pull" hatches



▲ 20.303.00



▲ 20.304.00



▲ 20.305.00



▲ 20.306.00



White Luran inspection hatches, new streamline design with hidden screws

180° opening, very sturdy, antiskid finish, interchangeable sizes with product numbers 20.301.00-20.302.00.

Code	Outer mm	Opening mm	Cut mm	Locking Kit
20.298.00	280x380	198x295	210x310	20.093.00
20.299.00	350x600	265x513	280x530	20.093.00



White Luran inspection hatches 'FLUSH' version

The faired cover hides the frame completely; flush hinges; 180° opening; walking surface.

Code	Outer mm	Inner mm	Cut mm
20.291.00	380x280	295x198	310x210
20.292.00	600x350	513x265	530x280
20.293.00	375x375	285x285	300x300
20.294.00	520x465	430x375	445x390
20.295.00	600x250	515x165	530x180

20.093.00 Locking kit, quit installation



▲ 20.293.00

▲ 20.294.00



▲ 20.292.00



▲ 20.093.00 locking kit



▲ 20.291.00



▲ 20.295.00

White Luran inspection hatches, new streamline design with hidden screws

180° opening, very sturdy, antiskid finish, interchangeable sizes with product numbers 20.301.00-20.302.00.

Code	Outer mm	Opening mm	Cut mm	Locking Kit
20.298.00	280x380	198x295	210x310	20.093.00
20.299.00	350x600	265x513	280x530	20.093.00



Made by **OSCULATI**



White inspection hatches with very sturdy walking antiskid surfaces

Splash-proof cover locking with neoprene gasket; flush-mount; may be used as hatches for lockers, fishing tanks, or storeroom hatches and bulkheads 160° opening.

white	grey	Opening mm	Outer mm	Locking Kit Optional
20.301.00	20.301.60	180x280	280x380	20.093.00
20.302.00	20.302.60	250x500	350x600	20.093.00



Made by **OSCULATI**



**new****Inspection hatches**

Made of **white Luran** with sturdy anti-skid surface; **splash-proof** cover closure with neoprene seal; on-the-edge mounting; can be used as hatches for lockers, fishing containers or as boxroom hatches or bulkheads, 160° opening; **detachable front**.

Code	Outer mm	Opening mm	Colour
20.302.40	350 x 600	250 x 500	white

Made
by **OSCULATI**

**Inspection manhole fitted with cover made of LURAN 'S' UV resistant**

Antiskid **watertight** surface, recess hole with swivelling hollow flat.

Code	Passage mm	Ø Outer max mm	recess Ø mm	centre-to-centre holes mm	Colour
20.840.00	190	265	215	242	<input type="checkbox"/> white
20.844.00	240	315	290	290	<input type="checkbox"/> white

Design
by **OSCULATI**

**Fitted with hidden screws and cam cover locking**

Code	inner Ø mm	Ø Outer max mm	Recess mm
20.845.00	240	325	290

Made
by **OSCULATI**

White Luran boxes with watertight hatch

Fitted with seal and 3 removable drawers with internal compartments; ideal for wall-mounting on Fishermann hulls, suitable for keeping fishing accessories or as a hardware drawer.

Code	Outer mm	Inner mm	Cut mm	Hatch type	Lock kit	Depth	Frontal type
20.871.10	380x280	280x180	310x210	20.298.00	20.093.00	180	A
20.871.11	380x280	280x180	310x210	20.291.00	20.093.00	180	B
20.871.12 new	380x280	280x180	310x210	20.303.00	20.094.00	180	C



▲ A



▲ B



▲ C



▲ 20.093.00 Lock kit



▲ 20.094.00 Lock kit

Compartment

Made with a white Luna hatch and a polyethylene peak.

Code	Internal opening mm	depth mm	Outer mm	hatch type	Optional Locking kit	Type
20.310.00	280x180	240	380x280	20.301.00	20.093.00	A
20.311.00	280x180	240	380x280	20.298.00	20.093.00	B
20.312.00	280x180	240	380x280	20.291.00	20.093.00	C
20.313.00 new	180x280	240	-	20.303.00	20.094.00*	G
20.320.00	500x250	300	600x350	20.302.00	20.093.00	D
20.321.00	500x250	300	600x350	20.299.00	20.093.00	E
20.322.00	500x250	300	600x350	20.292.00	20.093.00	F



Made by **OSCULATI**



▲ A



▲ B



▲ C



▲ D



▲ 20.093.00 Lock kit



▲ E



▲ F



▲ G



▲ 20.094.00 Lock kit

White ABS side pocket, fitted with front hatch

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	Front mm	Hole mm	Depth mm	Locking kit
20.028.01	All open	600x250	530x190	190	20.093.00
20.028.02	Divided in 2 sections	600x250	530x190	190	20.093.00



Made by **OSCULATI**



Multipurpose object-holding compartments

Pleasant look and fine finish; may be mounted anywhere in the boat;

white polypropylene compartment with watertight locking hatch and **neoprene** seal; hidden screw frame, **white polycarbonate**, UV resistant cover.

Code	Outer mm	recess cut mm mm	Depth mm
20.017.00	364x183	321x140	150
20.017.01	364x183	321x140	75



Made by **OSCULATI**

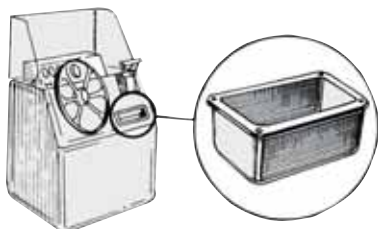




5-drawer object compartment

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 mm	Recess cut mm	Depth mm	Drawers mm
20.019.00	364x183	321x140	150	130x150x50



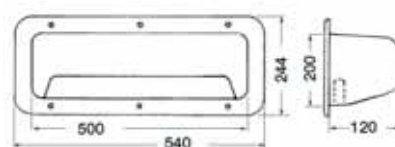
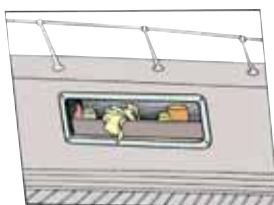
White polished ABS cockpit or instrument panel compartment

Code	Frame mm	Compartment mm
20.026.00	240x140	200x100x100



White ABS side pocket

Code	Maximum external stop mm	Depth mm	Net compartment mm
20.025.00	540x244	120	500x200x116



Side pocket designed for mounting stereo speakers

Made of **polished white ABS**; wall-mounting.

Code	Maximum external stop mm	Recess mm	Depth mm	For stereo speakers Optional
20.024.00	535x320	495x280	116	29.722.00-01.05; 29.721.99



▲ 20.027.01 right

White ABS side compartment, fitted with two glass-holders

Also designed to fit stereo speakers onto the wall.

Code	Outer mm	Recess mm	Depth mm	Side
20.027.01	720x310	685x275	120	right
20.027.02	720x310	685x275	120	left

UV-resistant Luran compartment

Code	Recess mm	Outer mm	Depth mm
20.033.00	195x95	240x145	48

White polished ABS side pocket used to hold glass, mugs, bottles, etc

Code	Outer mm	Recess mm	Depth mm
20.029.00	290x290	250x170x64 (Depth)	64

Toilette box

Suitable for storing personal toilette items or medicines

Code	Front mm	Recess mm	Depth mm
20.035.00	260x260	190x190	75

**White ABS compartment with double section, designed for wall mounting**

Made-ready for type-approved 1 kg extinguisher and store box.

Code	Extinguisher compartment mm	Object compartment mm	Outer mm	Recess mm
20.030.00	300x130	285x210	370x440	300x360x125

**White polished ABS peak, designed for wall mounting**

Fitted with hinged hatch (**stainless steel**) hinges and knob locking.

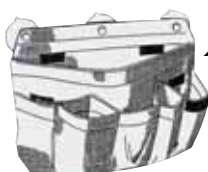
Code	Net compartment mm	Depth mm	Outer max stop
20.023.00	135x180	70	220x180
20.022.00	190x490	116	540x244





Object compartment with white frame

Code	←→ mm	Locking
20.021.00	285x180x260 (Depth)	yes
20.021.01	285x180x260 (Depth)	no



▲ 20.175.28



▲ 20.175.24



▲ 20.175.26

Object holding pocket made of sturdy white sail fabric

Suitable for stowing lines, winch handles, personal objects, etc; includes eyelets for wall installation and upper elastic band.

Code	←→ mm	Sections
20.175.24	240x390	1 with elastic
20.175.26	300x520	1 with elastic
20.175.28	390x300	8, 7 of them are open and 1 of them is lockable with velcro



White ABS watertight inspection manhole

20.209.00 Fitted with rear nylon object/document holding bag; size: Ø 150 mm.



Polypropylene inspection cover, fitted with rotating lock and bayonet

100% **watertight**, flush mount; the cap also covers the screws.

white	black	inner Ø mm	Ø Outer mm
20.337.01BI	20.337.01NE	100	135
20.337.02BI	20.337.02NE	155	204



Elegant functional inspection plug

Screw turning lock, 100% **watertight**, fitted with rubber 'O-ring'.

Polypropylene		Trasparent with white ring nut	Opening mm	Ø external mm
white	black			
20.204.00	20.204.20	20.204.01	102	147
20.206.00	20.206.20	20.206.01	125	172
20.205.00	20.205.20	20.205.01	152	205
20.207.00	20.207.20	20.207.01	203	220



Inspection covers made of polypropylene, fitted with hidden mounting screws

Screw-locking, 100% watertight, equipped with rubber 'O RING'.

Code	opening Ø mm	Colour	Ø external mm
20.199.01	102	<input type="checkbox"/> white	160
20.199.02	127	<input type="checkbox"/> white	182
20.199.03	152	<input type="checkbox"/> white	220

**Inspection covers fitted with inlet for easy opening**

Screw locking, **watertight**, equipped with rubber 'O Ring'; fitted with new inlet for easy opening (small overhanging part).

Code	Opening mm	Colour
20.201.00	102	<input type="checkbox"/>
20.202.00	127	<input type="checkbox"/>
20.203.00	152	<input type="checkbox"/>

**Mirror polished AISI 316 stainless steel inspection manhole**

Code	Ø Outer mm	Passage mm
20.100.10	141	100

**Watertight 'HENDERSON' manhole, fitted with screw cover**

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	Opening mm	Thickness mm	Ø Outer mm	Incasso mm	Interasse fori
20.400.00	180	32	236	187	212

**Professional watertight manhole 'HENDERSON TCL/3'**

Fitted with **light alloy** base and **nylon** cover, nitrile rubber seals; designed for heavy duty usage and for high pressure.

Code	←→	
	outside mm	opening mm
20.401.00	187x125	143x83

**Flush-mount white plastic compartment suitable for housing fuelling plugs**

Code	Recess mm	inner size mm	Frame mm
20.899.00	110x155	78	182x136





Nylon/fiberglass white fuel plugs, made in accordance with EC standards

Code	Type	Cap colour	Edge	Ø Flange mm	Neck length mm	Neck Ø mm
20.669.01	FUEL	red	raised	88	65	50
20.669.02	FUEL	red	flat	88	65	50
20.669.03	FUEL	green	raised	88	65	38
20.669.04	FUEL	green	flat	88	65	38
20.669.05	WATER	blu clear	flat	88	65	38



Nylon deck plugs with built-in vent, snap-in opening.

Code	Type	Colour	Base mm	Size mm	Neck Ø mm
20.670.01	FUEL	white	110x70	18	38
20.670.02	WATER	white	110x70	18	38



Chromed brass deck plugs made by Osculati, flush mounting.

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 45° inclined joint pin (to be used when the fuelling surface is inclined, made in accordance with **ISO 8099/1** standards). Supplied with small internal chain, maximum Ø size of 88 mm; type-approved by R.I.Na.

Code	Type	Neck Ø mm
Up right model		
20.667.01	FUEL	50
20.667.02	WATER	38
20.667.03	DIESEL	50
20.667.04	FUEL	38
20.667.06*	WASTE	38
20.667.07	WATER	50
Model with inclined row boat 45°		
20.667.08	FUEL	38
20.667.09	FUEL	50
20.667.10	WATER	38
20.667.11	DIESEL	50

*long neck complies with **ISO 80991** standards



▲ 20.467.xx



▲ 20.470.xx

Mirror polished stainless steel deck plugs, 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	Neck Ø mm	Flange Ø mm
Up right model			
20.467.01	FUEL	50	80
20.467.02	WATER	38	80
20.467.03	DIESEL	50	80
20.467.04	DIESEL	60	100*
Model with inclined connections 45°			
20.470.00	FUEL	38	80
20.470.01	FUEL	50	80
20.470.02	WATER	38	80

*for large hoses

SELF-ALIGNED 'UTILITY' CAP, fitted with special tip-over opening system

The special tip-over opening system avoids the need for keys, coins, screwdrivers or any other device; certified by R.I.NAL.

Code	Version	Type	Neck Ø mm
20.367.00	chromed brass	no inscription	50
20.367.01	chromed brass	Fuel	50
20.367.02	chromed brass	Water	38
20.367.03	chromed brass	Diesel	50
20.367.11	chromed brass	Fuel	38
20.367.12	chromed brass	Water	50
20.367.13	chromed brass	no inscription	38
20.368.01	Polished stainless steel AISI 316	Fuel	50
20.368.02	Polished stainless steel AISI 316	Water	38
20.368.03	Polished stainless steel AISI 316	Diesel	50
20.368.04	Polished stainless steel AISI 316	Fuel	38
20.368.06	Polished stainless steel AISI 316	Waste	50



▲ 20.368.02

**Chromed brass flush mount plugs with key, made by Osculati**

Fitted with special locking system and stainless steel waterproof key; made in accordance to R.I.Na. standards.

Code	Type	Neck Ø mm	Spare fork	Code	Type	Neck Ø mm	Spare fork
20.567.05	FUEL	38	20.567.04	20.567.01	FUEL	50	20.567.04
20.567.02	WATER	38	20.567.04	20.567.03	DIESEL	50	20.567.04
20.567.11	no name	38	20.567.04	20.567.12	WATER	50	20.567.04



▲ 20.567.11

**Precision cast mirror polished AISI 316 stainless steel fuel plugs, low overhang part**

It is unique for its **extremely flat** (overhang part of just 6mm). To be opened with a winch handle or with hex keys, in accordance with ISO 80991 standards.

Code	Type	cover Ø mm	neck width mm	Neck Ø mm
20.450.01	FUEL	86	70	50
20.450.02	WATER	86	70	38
20.450.03	DIESEL	86	70	50
20.450.04	WASTE	86	70	38*

20.715.10; 20.169.90; 20.567.04 *Opening key Optional*



Made
by **OSCULATI**

**Filler plugs type 'Francia', made of mirror polished AISI 316 stainless steel**

Fitted with standard DIN symbols; version:

A) Opening with winch handle

B) Opening with reduced hex key; it is aimed at **completely locking the plug 'Diesel'** with the same water plug handle in order to feed water instead of diesel and vice-versa.

Code	Type	Mounting flange Ø mm	Version	Opening key	Ø neck mm
20.460.02	WATER	85	A		38
20.460.03	DIESEL	85	B	20.460.11 Optional	54
20.460.06	WASTE	85	A		50



Made
for **OSCULATI**



▲ 20.460.02



▲ 20.460.06

Precision cast mirror polished AISI 316 stainless steel filler plugs, R.I.Na certified.

Code	Type	Neck Ø mm	Key	Flange Outer Ø mm
20.568.01	FUEL	50	yes	88
20.568.02	WATER	38	yes	88
20.568.03	DIESEL	50	yes	88
20.568.06	WASTE	38	no	88
20.568.11	FUEL	38	yes	88



Made
by **OSCULATI**





Precision-cast mirror polished AISI 316 stainless steel deck plugs, high quality finish.

Flush-mount plug, invisible screws hidden on the plug's rim.

Code	Type	Neck Ø mm	Code	Type	Neck Ø mm
20.866.23	WATER	38	20.866.31	DIESEL	50
20.866.35	WASTE	38	20.866.32	FUEL	50
20.866.30	FUEL	38	20.866.34	WASTE	50



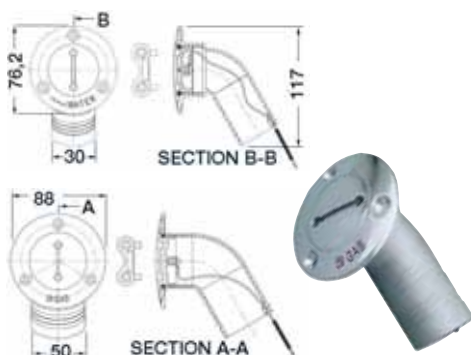
Mirror polished AISI 316 stainless steel refuel plugs, fitted with built-in vent

Fitted with special clever system, the plug neck can be mounted on the deck with just one hole

Code	Type	Mounting hole Ø mm	Vent Ø mm	Plug Ø mm	Size mm	Mounting ring nut Ø mm	Neck Ø mm
20.565.01	FUEL	50	16	82	14	74	38
20.565.02	WATER	50	16	82	14	74	38
20.565.03	DIESEL	50	16	82	14	74	38
20.565.05	DIESEL	50	16	82	14	74	50



1= cover; 2=opening cover; 3=ring; 4=blemish; 5=gasket; 6=tank cover.



Flush-mount mirror polished AISI 316 stainless steel deck plugs, fitted with 30° elbow.

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	76
20.867.04	DIESEL	50	76
20.867.06	WASTE	38	76



Mirror polished AISI 316 stainless steel professional deck plugs

Complete flush-mounting; supplied with AISI 316 stainless steel key.

Code	Type	Neck Ø mm	Mounting flange Ø mm
20.490.02	WATER	50	120
20.490.03	DIESEL	50	120



Flush mount chromed brass deck plug

Code	Type	Neck Ø mm
20.159.00	FUEL	50
20.159.01	WATER	35



Chromed brass fuel deck plug

20.155.00 3 hole ring screw mounting, neck Ø 60 mm, milling plug for a better grip.



Universal plug keys.

20.169.90 Made of **stainless steel**, designed to unscrew any filling plug.

**Plug opening reduced key**

Code	For opening	It is suggested for
20.460.11	20.460.03	diesel plugs, type Jeanneau/Beneteau since 2000

**Fiberglass octagonal key designed to open fuel/water plugs**

20.715.10 Winch handle type hollow, length 100 mm.

**Handle suitable for opening fuel/water and locker plugs**

20.714.00 Made of **AISI 316 stainless steel**; standard hexagon type sail boat winch.

**Spare opening fork for chromed plugs**

Code	For plugs
20.567.04	20.567.01-02-03-05-11-12

**Chromed brass fuel vent for hose Ø size 16 mm**

20.120.80 Fitted with fire-proof screen, 3/8" hose adaptor, made-ready for mounting elbows; splash-proof screen protection; made in accordance with **R.I.Na** and **EC** standards.

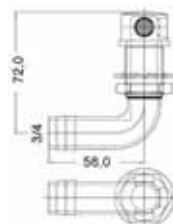
**Mirror polished stainless steel fuel vent**

Fitted with fire-proof screen and hose adaptor; made in accordance with **R.I.Na** and **CE** standards.

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



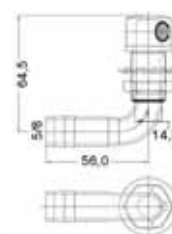
▲ 20.289.01



▲ 20.289.01



▲ 20.287.80/81/82



▲ 20.288.01

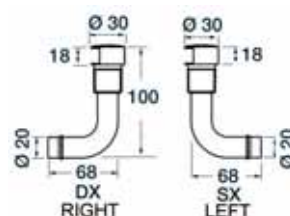


▲ 20.288.01

Chromed brass fuel vents with 90° hose adaptor

Fitted with flame-proof screen; **complies with R.I.N.a and EC standards.**

Code	Direction	Ø mm
20.287.91	right	16
20.287.92	left	16
20.287.93	right	20
20.287.94	left	20





Chromed brass flush mount fuel vent

CE Fuel vent

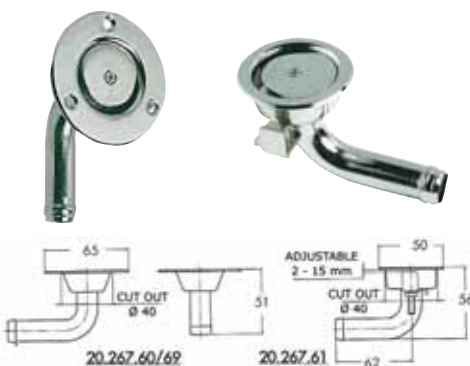
Elbow 90°, right	Elbow 90°, left	Straight	Hose adaptor Ø mm
20.285.01	20.285.02	20.284.01	16
20.285.03	20.285.04	20.286.01	20



Cast mirror polished stainless steel fuel vent, flush mount.

CE Fitted with flame-proof screen, detachable for easy maintenance

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

CE Designed with a special patented system, remains perfectly on the topside and can be adjusted to right or left; Chromelux finish; complies with R.I.Na and EC standards.

Code	Fitting	Mounting hole mm	hose adaptor mm	head Ø mm
20.267.60	with 3 screws	40	16	66
20.267.69 new	with 3 screws	40	19	66
20.267.61	invisible	40	16	50



Mirror polished AISI 316 stainless steel fuel vent, fitted with anti-flood system

CE Equipped with fire-proof screen; nickel-plated bronze anti-flooding device.

Code	Hose adaptor for pipe size mm	Head Ø mm	Size mm
20.268.00	16	35	7,5



Chromed brass fuel vent with splash-proof protection

CE 20.172.01 Large capacity, Ø 20mm hose adaptor; complies with R.I.Na and EC standards.



Mirror polished stainless steel fuel vent, flush mount.

CE Fitted with a clever cup system uses just one stud for fixing, which enables the hole vent rotation on the desired position; made in accordance with R.I.Na and EC standards.

CodeArticolo	Hose adaptor mm	Ø Outer mm	Hole mm
20.270.00	dritto 16	42	35

Special fuel vent, genuine 'ATTWOOD' product

attwood

20.446.19 Hose adaptor size 16 mm at 90° and vent fitted with valve to prevent water from getting into the hull **completely**; **nylon** body, **polished stainless steel** outer part, made in accordance with **R.I.Na** and **EC** standards.



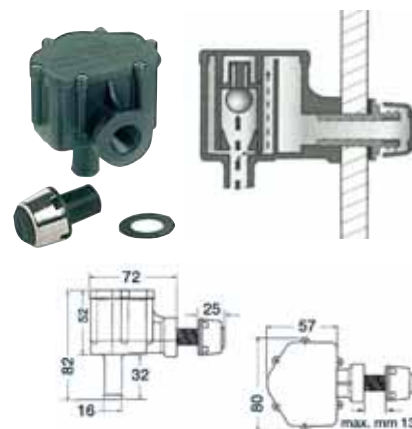
Elbowed fuel vent

20.287.90 Made of **nylon**, fitted with double internal screen, hose adapter Ø size 16 mm; made in accordance with **R.I.Na** and **EC** standards.



Fuel vent 'P-TRAP', fitted with stainless steel exterior

20.168.21 This new innovative product lets air out **without letting the fuel out**, therefore it eliminates the need for fuel line vents due to this problem. Moreover, it also prevents water from coming into the vent and is designed to make a gurgle sound when it near the fuel giving a sound alarm to signal the "full" level. Includes 16 mm hose adapter; made in accordance with **R.I.Na** and **EC** standards.



Device designed to be fitted along the fuel piping system, two function 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".



new

Funnel to avoid foam connected to the fuel plug.



This engine avoids lacks of foam and fuel which could be caused by the whirl of the supply handle. This engine allows the foam to return to the liquid status, and in this way it returns into the tank.

Code	For plugs Ø mm
20.364.00	38/50

