

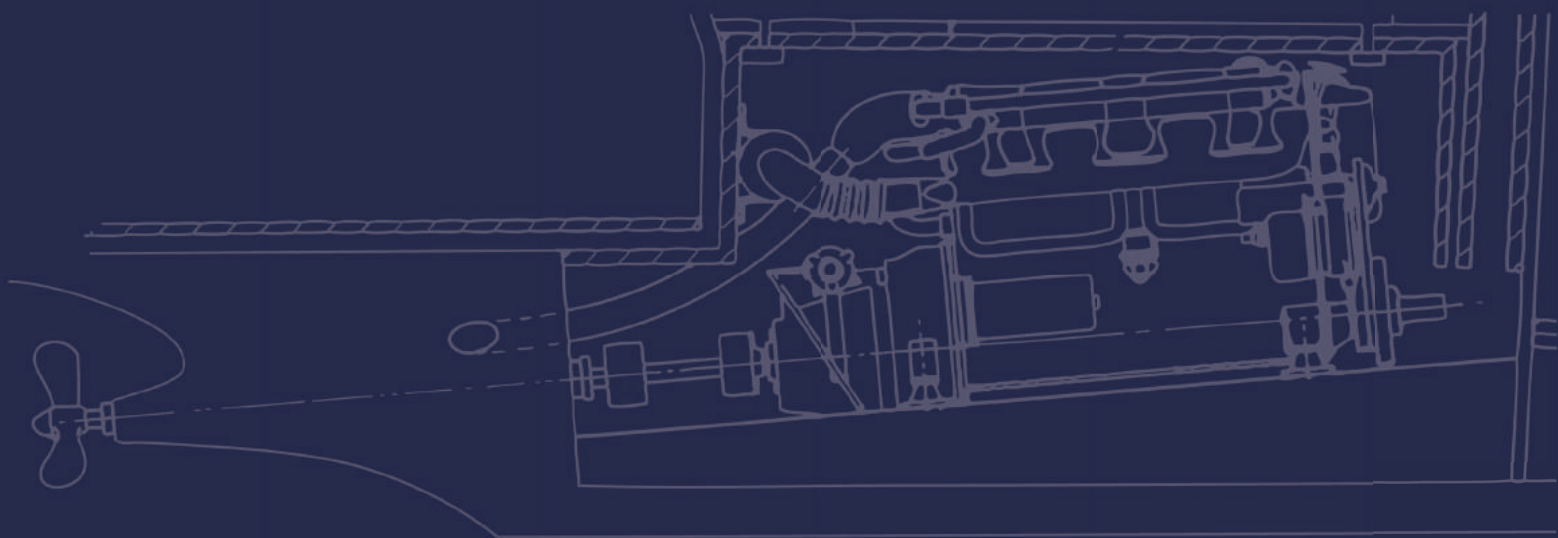


# A.S.A.P. Supplies

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Marine Products for Maintenance,  
Repair & Overhaul

Product Catalogue



Proud to distribute products from leading  
Marine manufacturers since 1989.



# A.S.A.P. Supplies

## WELCOME

A.S.A.P. Supplies offers a comprehensive range of over 14,000 marine equipment and boat parts and specialise in products for maintenance, repair and overhaul requirements. With over 25 years of experience dealing with marine products and spares for Leisure and Commercial boats of all sizes, you can rely on us to provide you with excellent technical knowledge and quality service when you need it most.

### Why choose A.S.A.P.?

- Customer focused service - take a look at our ratings below!
- Trusted and reliable project help and technical advice
- Quality branded products
- Quick delivery - order stock items by 3.30pm for same day despatch, Mon - Fri
- Complete packages tailored to your requirements
- Hassle free returns
- Exclusive discounts for Leisure, Trade and Commercial sectors

Google Reviews

4.9 / 5

Ratings correct as of 30th November 2016

Customer Feedback

9.6 / 10



[www.asap-supplies.com](http://www.asap-supplies.com)





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# ANODES

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## MGDUFF Sacrificial Boat Hull Anodes

The number, size and type of anodes required is determined by the type of material, the surface area being protected, and the environment in which the vessel is operating.

**Aluminium** is suitable for salt and brackish water applications

**Magnesium** should only be used in fresh water (never fit to a wooden hull vessel as they can damage the timber)

**Zinc** is suitable for all salt water applications



*Inspect your anodes annually and replace if more than 50% wasted  
Do not paint the working surface of the anode, it won't work to its full capacity*



All listed anodes are stock items, many others are available at [www.asap-supplies.com](http://www.asap-supplies.com)

MGDuff model number	Anode overall dimensions			Fixing / Type	Bolt centres	Aluminium anodes in brackish or salt water (nominal weight)	Magnesium anodes in fresh water (nominal weight)	Zinc Anodes in salt water (nominal weight)	Backing pad
	Length mm	Width mm	Depth mm						
51	70	70	25	10mm bolt (M10)	Centre	-	-	<b>812011</b> (0.5kg)	<b>812912</b>
52	50	50	25	5mm bolt	Centre	-	-	<b>812030</b> (0.27kg)	-
55	225	225	25	10mm bolt (M10)	Centre	<b>812315</b> (2.8kg)	-	-	-
56	100	100	25	10mm bolt (M10)	Centre	<b>812312</b> (0.4kg)	<b>812112</b> (0.25kg)	<b>812012</b> (1kg) c/w backing pad	<b>812912</b>
58	150	150	35	10mm bolt (M10)	Centre	<b>812314</b> (0.8kg)	-	<b>812014</b> (2.2kg)	<b>812914</b>
59	70	70	25	6mm bolt	Centre	-	<b>812131</b> (0.1kg)	<b>812031</b> (0.42kg)	-
72	457	102	64	Weld / bolt	Drill	-	<b>812108</b> (3.5kg)	-	<b>812908</b>
72B	457	102	64	16mm bolt (M16)	225mm	<b>812319</b> (5kg)	-	<b>812019</b> (12kg)	<b>812918</b>
72BM	457	102	38	10mm bolt (M10) 16mm bolt (M16)	200-225mm	-	-	<b>812018</b> (7kg)	<b>812918</b>
73	356	152	32	Weld / bolt	Drill	-	<b>812105</b> (3.5kg)	-	-
75	100	45	28	Weld / bolt	Drill	-	-	<b>812010</b> (0.5kg)	-
76	114	76	32	Weld / bolt	Drill	<b>812301</b> (0.5kg)	<b>812101</b> (0.4kg)	<b>812001</b> (1kg)	-
76 Mini Euro	200	65	32	10mm bolt (M10)	>110mm	-	-	<b>812026</b> (1.2kg)	<b>812926</b>
77	157	83	41	10mm bolt (M10)	200mm	<b>812302</b> (1kg)	<b>812102</b> (0.8kg)	<b>812002</b> (2.1kg) c/w backing pad	<b>812902</b>
77 Euro	318	65	32	10mm bolt (M10)	100-210mm	-	-	<b>812027</b> (2.4kg)	<b>812927</b>
78	305	76	32	Weld / bolt	Drill	<b>812306</b> (2kg)	<b>812106</b> (1.5kg)	<b>812006</b> (4.5kg)	-
78B	305	76	32	10mm bolt (M10)	200mm	<b>812317</b> (1.7kg)	<b>812117</b> (1.3kg)	<b>812017</b> (4kg) c/w backing pad	<b>812917</b>
78BM	356	76	32	10mm bolt (M10)	200mm	-	-	<b>812020</b> (5kg)	-
79	171	83	41	Weld / bolt	200mm	<b>812303</b> (1.5kg)	<b>812103</b> (1kg)	<b>812003</b> (3kg)	-
80	305	152	32	Weld / bolt	Drill	-	<b>812104</b> (2kg)	-	-

Weld on anodes can be drilled and secured with bolts.

## MGDUFF Hanging Hull Anodes

MGDuff hanging anodes feature an interchangeable system allowing the replacement / change of the anode material without disturbing the bonding system (saving time). This is particularly useful when a craft is moored in differing water types as the system allows for the correct anode material to be selected whilst using only one hanging cable.

Supplied with 4 metres of cable and M10 terminal.

Part no.	Material	Suitable for	Dimensions l x w x d mm	Replacement anode
<b>812329</b>	Aluminium	Salt and brackish water	76 x 76 x 100	<b>812328</b>
<b>812129</b>	Magnesium	Fresh water	76 x 76 x 100	<b>812128</b>
<b>812029</b>	Zinc	Salt water	76 x 76 x 100	<b>812028</b>



812029

## MGDUFF Anode Fixing Studs



812980



812986

Part no.	Fixing	Material	Type	Hull type
812980	M10B	Galvanised steel	Through hull	Wood / GRP hulls
812981	M16B	Galvanised steel	Through hull	Wood / GRP hulls
812985	M10C	Mild steel	Weld on	Steel hulls
812986	M16C	Mild steel	Weld on	Steel hulls
812990	M10BSS	Stainless steel	Through hull	Wood / GRP hulls
812991	M16BSS	Stainless steel	Through hull	Wood / GRP hulls



734153-A



## Bonding Cable

Cable for connecting anodes and equipment to be protected. Cable size 4.0mm<sup>2</sup>

Part no.	Coil size meters	Type
734153-A	30	Thin wall
734159-A	100	Thin wall
748153-A	30	Tinned



812701



812702

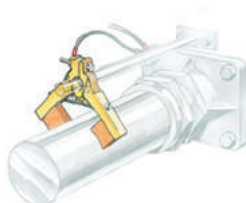


Illustration of 812702

## MGDUFF Electro Eliminators

The MGDuff electro eliminator works by making contact with the boat propeller shaft through brushes, then needs to be connected to the hull anodes.

Part no.	Shaft size
812701	Up to 50mm diameter
812702	Over 40mm and up to 200mm diameter



715703



## Ground Plates

Made from porous bronze and supplied with special nuts and bolts for installation.

Part no.	Length mm	Width mm	Thickness mm	Equal to copper mass m <sup>2</sup>	Hole centres mm
715701	150	50	12	1.1	68
715703	200	64	12	1.9	100
715705	300	75	12	3.7	215

## Shaft Anodes

**MGDA** – Low drag aluminium anodes with integral core bar.

**MSA** - Standard magnesium ball anode which clamps to the shaft with machine screws.

**ZSA** - Standard zinc ball anode which clamps to the shaft with machine screws.

**MGD** - Low drag zinc anode. Core bar extends effective life.

All anodes listed are stock items, our full range is available at [www.asap-supplies.com](http://www.asap-supplies.com)

*Drive Force*

ZSA  
812409

**MGDUFF**

MGD  
812519

**MGDUFF**

Magnesium  
812625

**MGDUFF**

Aluminium  
812805

Aluminium MGDA	Magnesium MSA	Zinc ZSA Ball type	Zinc MGD Low drag	Shaft inches	Shaft mm
-	-	812401	812501	3/4"	19
812802	-	-	-	-	20
812803	-	812403	812503	7/8"	22
812805	812625	812405	812505	-	25
-	812627	812407	812507	1"	-
-	-	812409	812509	1-1/8"	28
812811	-	812411	812511	-	30
-	812633	812413	812513	1-1/4"	-
812815	-	812415	812515	1-3/8"	35
-	-	812417	812517	1-1/2"	38
812819	-	812419	812519	-	40
-	-	812421	812521	1-3/4"	-
812821	-	812422	-	-	45
812823	-	812423	812523	2"	50
-	-	812424	-	2-1/4"	57

## Replacement Zinc Engine Anodes

Some engines use specially shaped engine anodes, while others use standard pencil engine anodes. If you cannot find the exact engine anode you need, especially for discontinued engines, it may be possible to use one of the standard universal pencil engine anodes, or to adapt one of the zinc pencil rod anodes. Please note: These are not OEM made.



ORB 19705



ORB 19929



105650



105627



105621



105624



105626



105641



205999



105630



105670



105671



105672



105673



105680



105681



105691



105692

Part no.	Replaces Volvo / Yanmar number
ORB 15300	43957300
ORB 15301	43957301
ORB 15302	43957302
ORB 15303	43957301
ORB 15304	841063 and 3858995
ORB 15661	823661
ORB 19042	21868042
ORB 19130	3854130
ORB 19139	872139
ORB 19395	873395
ORB 19411	3855411
ORB 19499	3858399
ORB 19638	876638
ORB 19705	855105
ORB 19745	3588745
ORB 19746	3588746
ORB 19835	875835
ORB 19929	838929, 804107, 800476, 858501
ORB 8-20020	27210-200200
ORB 8-20030	27210-200300
ORB 8-20055	27210-200550, 177301-54900
ORB 8-41300	104211-41300

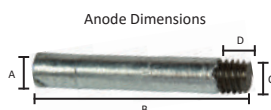
Engine manufacturer	Series Model	Part no.	Diameter 'A' mm	Length 'B' mm	Thread Diameter 'C'	Thread length 'D' mm
Bukh	000E0450	105650	12	35	5mm (M5)	12
Bukh		105627	12	40	3/8" UNC	10
Caterpillar	2283	105621	10	55	1/4" UNC	11
Caterpillar	2288	105624	16	63	3/8" UNC	13
Caterpillar	2284	105626	28	55	3/4" UNC	20
Caterpillar	2280	105627	12	40	3/8" UNC	10
Cummins		105641	16	45	3/8" UNC	13
Martec - cooling kit		205999	8	14	1/4" UNC	11
Onan (non threaded)		105630	10	30	8mm boss	6mm boss
Volvo Penta	200 / 250 / 270	105670	15.5	40	7/16" UNC	10
Volvo Penta	838929	105671	16	30	7/16" UNC	10
Volvo Penta		105672	16.5	10	5/16" UNC	13
Volvo Penta	823661-4	105673	25	44	3/8" UNC	10
Yamaha		105680	20	39	M8	11
Yamaha (non threaded)	Button	105681	20	20	No thread	-
Yanmar	YS 8-12HP	105691	20	20	M8	8
Yanmar	Plug	105692	30	40	M8	8

## MGDUFF Replacement Universal Zinc Engine Anodes

Many engine manufacturers have special anodes, if you can't find the exact pencil anode for the job or just want to add a pencil anode, we have a range of universal zinc pencil anodes and threaded adaptor plugs to help.



105824



Part no.	Diameter 'A'		Length 'B'		Thread 'C'	Length 'D'	
	mm	Inches	mm	Inches		mm	Inches
105802	10	3/8"	51	2"	3/8"	10	3/8"
105803	10	3/8"	75	3"	3/8"	10	3/8"
105804	10	3/8"	100	4"	3/8"	10	3/8"
105812	13	1/2"	51	2"	3/8"	12	1/2"
105814	13	1/2"	100	4"	3/8"	12	1/2"
105816	13	1/2"	152	6"	3/8"	12	1/2"
105822	16	5/8"	51	2"	3/8"	12	1/2"
105823	16	5/8"	75	3"	3/8"	12	1/2"
105824	16	5/8"	100	4"	3/8"	12	1/2"
105832	19	3/4"	51	2"	5/8"	12	1/2"
105833	19	3/4"	75	3"	5/8"	12	1/2"
105834	19	3/4"	100	4"	5/8"	12	1/2"
105836	19	3/4"	152	6"	5/8"	12	1/2"
105852	25	1.05"	51	2"	3/4"	12	1/2"

## SEAFLOW Manicooler Replacement Anode

### 226923

Replacement zinc pencil anode for the Seaflo exhaust manicoolers. You will need one anode per manicooler.



226923

## Brass Base Plugs for Universal Anodes

Part no.	Male NPT	Female UNC
105892	1/4"	3/8"
105893	3/8"	3/8"
105894	1/2"	3/8"
105895	3/4"	5/8"



105893

## MGDUFF Sterndrive Anodes

Sterndrive anode kits to suit most popular sterndrives from Volvo Penta and Mercruiser. Some are available in zinc, aluminium or magnesium to suit your cruising / mooring location.



812342



812141



812050



812053

Mercruiser / Mercury			
Type	Aluminium	Magnesium	Zinc
Bravo 1	812340	812140	812040
Bravo 2 + 3	812341	812141	812041
Alpha 1, Gen 2	812342	812142	812042
Alpha 1, Gen 1	812343	812143	812043
Bravo 3 (2004+)	812344	-	812044
Verado 6 cylinder	812347	-	-

Volvo Penta			
Type	Aluminium	Magnesium	Zinc
280 Sterndrive	812350	812150	812050
280 Duo prop drive	812351	812151	812051
290 Sterndrive	812352	812152	812052
290 Duo prop drive	812353	812153	812053
SX Drive	812354	812154	812054
DPH Drive	812355	-	-



812061



812062



812063



812064



812065



812066



812068

## Bow Thruster Zinc Anodes

Part no.	For bow thrusters kgf
812061	25
812062	35 and 55
812063	60, 75, 80 (later model) and 95
812064	130, 125 and 160
812065	220
812066	23, 50 and 80 (older model)
812068	45

## MGDUFF Prop Nut Anodes

Zinc shaft nut anode, used for Beneteau, Dufour and Jeanneau.

Part no.	Inside diameter mm	Outer diameter mm	Length mm
812460	25	34	40
812461	30	41	54
812462	35	46	58
812463	40	51	67
812464	45	61	76



ORB 19913

## Prop Nut Anodes

Zinc shaft nut anode, used for Volvo Penta Sterndrives.

Part no.	Replaces Volvo number	Suitable for shaft diameter mm
ORB 19140	828140	40
ORB 19913	833913	25 + 30
ORB 19915	833915	35

## MGDUFF Zinc Outdrive Anode

105701

Engine manufacturer: Yanmar Saildrive  
Length: 147mm  
Width: 107mm  
Depth: 26mm



105701

More outdrive anodes available online, please visit [www.asap-supplies.com](http://www.asap-supplies.com)



## Galvanic Isolation Blockers

Galvanic isolation blockers eliminate the potential difference between boats and the shore, preventing galvanic action caused by the different metals used.



WP 60110140

Part no.	Amps
WP 60110140	16
WP 60110150	32



812473

## MGDUFF Zinc Max-Prop Shaft Anodes

Part no.	Outside diameter mm	Inside diameter mm
812471	63	38
812472	70	42
812473	83	46



- Cam Bars
- Catches
- Coat Hanger
- Cup Holder
- Door Handles
- Door Stoppers
- Fire Ports
- Hinges
- Hooks
- Locks & Latches
- Signs & Labels

## Catches, Latches, Locks and Bolts

We have a wide range of locks, latches, catches and stoppers. These are suitable for use with windows and doors, as well as our range of hatches.



827911  
Black / Chrome (1091)



827914  
White / White (1091)



827922  
White / Chrome (1092)



827923  
Black / Black (1092)

### PERKO® Round Locks and Latches

#### Step 1 - Choose your lock or latch

Suitable for a 63.5mm (2-1/2") diameter hole for surfaces between 3 to 19mm (1/8" to 3/4") thick. This Perko latch is not supplied with a cam bar, please order separately, see step 2.

Lock (with 1 key)		
Part no.	Body colour	Handle type
827911	Black	Chrome
827912	White	Chrome
827913	Black	Black
827914	White	White

Latch (non-locking)		
Part no.	Body colour	Handle type
827921	Black	Chrome
827922	White	Chrome
827923	Black	Black
827924	White	White

#### Step 2 - Choose your cam bar

Cam bars are sold separately, please choose type required.

Part no.	Cam bar number	Type	Threaded	Length mm (inch)
827931	1	Offset	3/8"	48 (1-7/8")
827933	3	Straight	3/8"	48 (1-7/8")
827934	4	Offset	3/8"	73 (2-7/8")
827935	5	Straight	3/8"	67 (2-5/8")
827936	6	Offset	3/8"	76 (3")



No. 1  
827931



No. 3  
827933



No. 4  
827934



No. 5  
827935



No. 6  
827936



827961



827969



827975



827979

### PERKO® Square Locks and Latches

- Detents for open and closed
- Easily installs in a 51mm (2") hole for door thickness 6-28mm (1/4" to 1-1/8")
- Face plate dimensions: 64 x 64mm (2-1/2" x 2-1/2")
- Supplied with a cam bar

Lock (with 2 keys)			
Part no.	Body colour	Supplied cam bar no.	Cover to suit
827961	Black	1	827969
827962	Black	2	827969
827963	Black	3	827969
827971	White	1	827979
827972	White	2	827979
827973	White	3	827979

Latch (non-locking)			
Part no.	Body colour	Supplied cam bar no.	Cover to suit
827965	Black	1	827969
827966	Black	2	827969
827975	White	1	827979
827976	White	2	827979
827977	White	3	827979

### PERKO® Spare Cam Bars

To suit Perko square locks and latches, these are to suit 5/16" thread shafts.

Part no.	Cam bar number	Type	Centre to centre dimensions mm
827981	1	Offset	51 (2")
827982	2	Offset	38 - 51 adjustable (1-1/2" to 2")
827983	3	Straight	65 (2-9/16")



No. 1  
827981



No. 2  
827982



No. 3  
827983



827952

### PERKO® Self Adjusting Slam Latch

Self adjusting Perko 0675 slam latches with slide action are designed to keep the inside of hatches dry. These latches will still install even with a slight misalignment of components due to the design of the cam bar.

Part no.	For surface thickness mm	Hole diameter mm	Face plate O.D. mm	Colour
827952	3 - 19 (1/8" to 3/4")	51 (2")	60 (2-3/8")	White

## 4Dek Flush Lift Handle Catch

- Made from precision cast mirror polished stainless steel 316
- Folds flush into the catch
- Typical uses include floor boards, hatches and access panels
- Supplied with catch plate



831304

Part no.	Catch dimensions mm	Plate dimensions mm
831304	57 x 76	58 x 19

## 4Dek Hatch / Drawer Stopper Catch

- Made from brass with chrome plated finish
- Folds flush with spring action to retain
- Typical uses include lockers, cupboards, drawers and small access panels
- Supplied with catch plate



831302

Part no.	Catch dimensions mm	Plate dimensions mm
831302	45 x 42	20 x 42

## 4Dek Knob Lock and Latches

Compact push knob latches, designed to secure cabinet doors and drawers in place. These latches are used in conjunction with 831077 door lock (to the right) which is used on the inside of the cabinet to provide a locking action.

Part no.	Finish	Dimensions mm
831078	Gold	55 x 30
831079	Chromed	55 x 30



831078



831079

### 831077

This is a fitting designed to sit on the inside of the drawer and to be used with 831078 and 831079 knob latches. The complete latch is suitable for a door thickness of 15mm-30mm.



831077

## 4Dek Folding Lockable Latches

These two part hasp and staple latches are hinged and can be folded onto the separate eye plate to provide a point to lock the latch into place. *Please note: Lock not supplied.*

Part no.	Open dimensions mm	Material	Eye end
831080	90 x 26	Stainless steel	Swivel
831081	65 x 23	Stainless steel	Non-swivel
831082	140 x 35	Chromed brass	Non-swivel
831083	95 x 25	Chromed brass	Non-swivel
831084	33 x 87	Stainless steel	Non-swivel
831085	33 x 107	Stainless steel	Non-swivel
831086	64 x 24	Stainless steel	Swivel
831087	91 x 24	Stainless steel	Swivel
831088	89 x 32	Chromed brass	Swivel



831080



831081



831082



831083



831084



831085



831086



831087



831088

## 4Dek Magnetic Door Stops

Compact magnetic door stop fitted with a checking plate.

Part no.	Material	Overall height mm	Overall diameter mm
831101	Chromed brass	35	40
831102	Polished brass	35	40
831103	Pearl chromed brass	35	40



831101

## 4Dek Door Stoppers

Part no.	Material	Diameter mm
831092	Stainless steel and nylon	60
831093	Stainless steel 316	45



831092

## 4Dek Sliding Door / Window Catches

These 4Dek window catches made from stainless steel 316 are ideal for sliding glass windows and as a folding stopper for small lightweight doors. Fitted with a shock proof PVC cover.

Part no.	Open dimensions mm	Closed dimensions mm	Overall length mm
831011	55 x 47	74 x 47	74
831012	88 x 32	72 x 32	88



831011



831012

## 4Dek Door Stoppers

These door stoppers are made from stainless steel.

Part no.	Base mm	Size mm
831017	34 x 20	30
831018	37 x 29	38



831017

**PERKO® Lock and Door Handle**

P-0927DP0CHR

The locking mechanism is operated by a turn button from the inside and a key from the outside.

Suitable door thickness 25mm to 35mm.

Part no.	Dimensions mm	Screw size
P-0927DP0CHR	Case: 70 x 51 Escutcheon: 111 x 32	6

**4Dek® Locking Hasp Latches**

831091

Two part hasp and staple latches, made from mirror polished stainless steel. They are hinged and can be folded onto the separate lock plate. The folding latch plate is fitted with a locking device, which is operated by a key (2 keys supplied).

Part no.	Dimensions closed mm
831090	80 x 30
831091	105 x 30

**4Dek® Door Stopper With Bumper and Catch**

831015

This door stopper is made from chrome plated brass with a rubber bumper.

Part no.	Base diameter mm	Overall length mm
831015	40	50

**4Dek® Chromed Brass Snap-In Catch**

831116

This useful 'snap-in' catch is ideal for holding doors, hatch lids or similar. The catch is made from chrome plated brass.

Part no.	Dimensions mm
831116	60 x 38 x 15

**4Dek® Chromed Brass Door Hooks**

831114

Door hooks constructed from chromed brass for a simple but stylish door stopper.

Part no.	Length mm
831113	60
831114	80
831115	100

**4Dek® Door Latches With Trim Ring**

831119

Finger operated door latches.

Part no.	Material	Supplied with
831118	Nylon plastic	Mounting bracket and 4 screws
831119	Brass	Fitted teak seal

**4Dek® Locks For Doors and Windows**

831060



831061



831062



831063



831064



831065



831066



831067



831068



831069

Part no.	Overall length mm	Width mm	Material	Type
831060	85	31	Chromed brass	Slide across
831061	85	31	Stainless steel	Slide across
831062	48	37	Stainless steel	Snap in
831063	120	40	Chromed brass	Spring loaded
831064	134	53	Stainless steel	Spring loaded
831065	134	53	Stainless steel	Spring loaded
831066	90	30	Chromed brass	Blocking latch
831067	105	31	Chromed brass	Blocking latch
831068	35	45	Nickel plated brass	Knob turn locking
831069	85	27	Stainless steel	Slide locking latch

**4Dek® Hooks**

831001



831005

These stylish hooks are made from cast polished stainless steel and are fixed using 2 screws.

Part no.	Height mm	Depth mm
831001	40	31
831002	41	25
831003	53	33
831005	25	25

**4Dek® Spring Loaded Hooks**

831007

These hooks have a spring loaded tongue and two hole fixings.

Part no.	Base width mm	Base length mm	Hook I.D. mm	Material
831004	36	30	7	Chromed brass
831006	34	38	5	Stainless steel 316
831007	34	41	10	Stainless steel 316

**4Dek® Folding Coat Hooks**

831009

Folding coat hooks with stainless steel spring.

Part no.	Height mm	Width mm	Material
831009	75	25	Chromed brass
831010	75	25	Polished brass

## 4Dek 2 Hook Coat Hanger

- Made from polished stainless steel
- Fixed using 2 screws in the base
- Has two hooks, one large hook protruding from the top of the base and one smaller hook from the bottom



831008

Part no.	Base width mm	Base length mm	Overall hook size mm
831008	26	40	70

## 4Dek Cup Holder

Made from pressed polished stainless steel.



831991

Part no.	Internal diameter mm	External diameter mm	Recess diameter mm	Depth mm
831991	68 (2-5/8")	88 (3-1/2")	75 (3")	42 (1-5/8")

## 4Dek Fire Ports

Fire ports allow access to the engine box with a fire extinguisher, without having to open the box.

- For wall or floor mounting
- Watertight breakable PVC membrane
- Can be connected to the engine box or tank room with a pipe
- Activates by applying pressure to the watertight PVC membrane
- Membrane can be refitted after use

Part no.	Overall external diameter mm	Opening / hole diameter mm	Material
831900	68	45	White plastic
831901	68	45	Polished stainless steel



831900



831901

## 4Dek Fire Ports With Hose Adaptor

Part no.	Overall external diameter mm	Opening / hole diameter mm	Hose outlet mm (inch)	Hose tail adaptor	Material
831905	70	50	38 (1-1/2")	90°	White plastic
831906	70	50	32 to 38 (1-1/4" to 1-1/2")	Straight / stepped	White plastic



831905



831906

## ASAP ELECTRICAL Signs and Labels

Part no.	Label type	Size w x h mm
708085	Printed BSS legend sheet red + blue	210 x 297 (A4 sheet)
711087	Legend sheet for ASAP panels	210 x 297 (A4 sheet)
728051	Fuel shut off valve label	75 x 50
728052	Fuel shut off valve label	60 x 25
728053	Fuel shut off valve label	50 x 25
728061	Diesel label white on red	100 x 25
728071	Diesel label	(O.D.) 130 x (I.D.) 93
728171	Water filler label	(O.D.) 130 x (I.D.) 93
728201	Battery isolation label	75 x 50
728203	Battery isolation label	50 x 25
728309	Gas shut off valve label	50 x 25
728312	Gas shut off valve label	75 x 50



708085



711087



728051



728052



728053



728061



728071



728171



728201



728203



728309

## Cabin Lights



For cabin lighting, please see Lighting section, pages 195-198.

## Cabin Heaters



For cabin heaters and accessories, please see Electrical section, page 53.

## Rocker Switches & Covers



For rocker switches - please see Electrical section, pages 63-64.



## Standard Stainless Steel Pin Hinges

Pin sits on top of the two connecting parts.

### 2mm Door Hinges



Part no.	Open width mm	Pin length mm	Hinge thickness mm
831401	39	38	2
831403	47	30	2
831405	55	37	2
831408	74	60	2
831409*	72	38.5	2
831410	74	75	2
831411	101	27	2

\* Pull pin hinge

### 5mm Door Hinges



Part no.	Open width mm	Pin length mm	Hinge thickness mm
831416	74	38	5
831417	100	38	5
831418	38	38	5
831419	50	50	5
831421	74	39	5
831424	28	150	5

### 2mm Overhang Hinges



Part no.	Open width mm	Pin length mm	Over hang mm	Hinge thickness mm
831450	37	37	10	2
831451	67.5	37	10	2

### 7mm Door Hinges



This hinge is designed for seats, hatches doors and other similar applications.

Part no.	Open width mm	Pin length mm	Hinge thickness mm
831501	100	60	7

### Piano Hinge



Part no.	Open width mm	Pin length mm	Hinge thickness mm
831430	50	150	1.5



## Central Pin Hinges

Pin sits in the middle of the two connecting parts.

### 2mm Door Hinges



Part no.	Open width mm	Pin length mm	Hinge thickness mm
831402	39	38	2
831407	55	37	2

### 5mm Left / Right Hand Hinges



These hinges are suitable for doors and removable trunks.

Part no.	Open width mm	Pin length mm	Hinge thickness mm	Pin type
831422	100	50	5	Right
831423	100	50	5	Left



## Reversed Pin Hinges

Pin sits below the two connecting parts.

### 2mm Door Hinges



Part no.	Open width mm	Pin length mm	Hinge thickness mm
831404	47	30	2
831406	55	37	2
831412	101	27	2

### Heavy Duty 3mm Door Hinges



Part no.	Open width mm	Pin length mm	Hinge thickness mm
831413	110	60	3
831414	130	60	3
831415	160	60	3



# DECK FITTINGS & HARDWARE

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## Fenders

Dan-Fender use the highest quality materials in all of their production to ensure that all fenders and buoys can do their intended job for many years. The fender rope attachments (also known as the eyes) of the heavy duty range are all injection moulded to be extra strong and reliable. The valve of the fender is made from metal, rather than plastic valves which are used in some other fender brands. The metal valve allows for easy inflation of all Dan-Fender products and ensures the air remains in the fender body. All fenders are tested under water before being despatched by the manufacturer.



### Cylindrical - Heavy Duty



895003



895114



895187

Boat length	Body diameter mm	Length mm	Buoyancy kg	White	Navy blue	Fender cover
Up to 10'	93	355	1.4	895001	895101	-
11 - 16'	110	460	2.7	895002	895102	-
17 - 23'	135	540	4.8	895003	895103	-
17 - 23'	150	645	6.5	895012	895112	895182
17 - 30'	200	635	14	895013	895113	895183
24 - 25'	200	765	23	895014	895114	895184
31 - 45'	250	700	29	895016	895116	895185
31 - 45'	250	940	39	895017	895117	895186
46 - 60'	300	880	43	895018	895118	895187
over 46'	300	1130	55	895019	895119	895188



### Balloon - Heavy Duty



895026

Boat length	Body diameter mm	Length mm	Buoyancy kg	White	Fender cover
11 - 16'	240	320	8	895026	-
17 - 23'	320	480	23	895027	895191
24 - 45'	405	570	46	895028	895192
31 - 60'	480	640	72	895029	895193
over 46'	610	790	118	895030	895194



### FenderStep - Heavy Duty

The FenderStep is a patented design for Dan-Fender which can replace a ladder or step on the side of your boat. Whilst a metallic ladder can scratch your boat, the FenderStep offers your boat protection, and is small and convenient enough to be installed in almost any location around the boat.



895040

Length mm	Width mm	Depth mm	White	Navy blue
400	400	205	895040	895140
560	450	180	895041*	895141*

\*Fender2step - includes an extra step in the middle for boats with high topsides.



### Bow

Crescent shaped fender designed to protect the bow or stern of the boat.



895035

Body diameter mm	Width mm	Depth mm	White	Navy blue
102	330	340	895035	895135
130	400	410	895036	895136



### Single Eye (round)



895008

Boat length	Body diameter mm	Length mm	Buoyancy kg	White	Navy blue
11 - 23'	170	310	4	895007	895107
17 - 30'	210	360	7	895008	895108



### Pontoon

This dock fender has a 90° angled corner to prevent boats from getting scratched by pontoons, wharfs, jetties and other areas that protrude into the waterways. The fender is easy to mount by screwing directly into the woodwork, and then provides long lasting protection



895050

Length mm	Width mm	Depth mm	Height mm	White	Navy blue
250	250	60	100	895050	895150



## Multi Dock Fenders

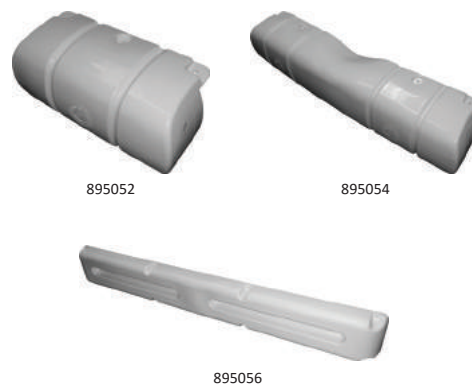
Multi Dock Fenders can be used in many different ways to prevent boats from getting scratched by pontoons, wharfs, jetties and other areas that protrude into the waterways.

**Short** - can be used as a straight fender or converted for use as an inside or outside corner fender

**Standard** - can be used as a straight fender, with or without an added Dan-Fender 520 (895003, 895103), or can be converted for use as an inside or outside corner fender.

**Mini** - can be used as a straight fender, however this fender can also be cut in half for use as 2 separate fenders.

Type	Width mm	Depth mm	Height mm	White	Navy blue
Short	400	180	181	895052	895152
Standard	900	180	181	895054	895154
Mini	950	52	120	895056	895156



## PERKO® Fenderlock

- Pair of Perko 1299 fenderlocks
- Made from chrome plated zinc
- Comes with eyes for permanent attachment to fender line

Part no.	Flange outside diameter mm (inch)	Eye inside diameter mm (inch)
827170	38 (1-1/2")	9.5 (3/8")



827170



Eye plates available on page 21.



## Fender Hand Pump



895991

### 895991

Specially designed for use with Dan-Fender products with metal valves. It is suitable for use on board to top up marine fenders and buoys with air when required.



*It is very important that these products are not over inflated. You should be able to press your finger into the fender or buoy and make a small dent, they should not be harder than this. The reason for this is that air expands in warmer weather which can enlarge and deform the body of the fender or buoy, weakening the materials and reducing its lifespan.*



## Inflation Adaptor

### 895995

Dan-Fender inflation adaptor for use with the heavy duty range of fenders and buoys. This adaptor can be used to remove the valve plug from the fenders, before being screwed into the valve. The other threaded end can then be mated to your means of inflation, such as a compressor, to easily inflate the fender or buoy.



895995

## General Purpose Sealants and Adhesives



### 109410

The 3M 4200 FC forms watertight and weather resistant seals which are suitable for above and below waterline applications. Once dry, the sealant can be painted and sanded where needed. Suitable for use with wood, fibreglass, gel coat, plastics and metal.

310ml white



109410



Suitable for all sealing jobs and adhesive applications on board your boat. This sealant is touch-dry in just 45 minutes and can be sanded or painted over in 4 days.

**109503** - 300ml white  
**109504** - 300ml black  
**109505** - 300ml brown

Also available in packs of 12. Add -12 to part number.



109503



## Applicator Gun

### 109001

This Drive Force applicator gun is suitable for 300ml to 400ml sealant cartridges. The 10" cartridge gun has a sturdy metal construction.



109001



890101

### 4Dek Life Rings

These are used to pull someone to safety by using the connecting ropes around the outside of the ring. The life ring features four reflective tapes which go around the ring to aid visibility in poor conditions.

- **890101** approved for use with pleasure boats (Ministerial order 385/99)
- **890103 and 890105** are R.I.N.A. approved for use with commercial boats

Part no.	Type	Outside diameter mm
<b>890101</b>	Compact	600
<b>890103</b>	Classical	750
<b>890105</b>	Super compact	640



### Radar Reflectors

#### Mounted

Radar reflector using specially angled aluminium sheets housed in a clear plastic container. The design makes it highly reflective from all angles to return any radar waves from other boats to ensure your boat appears on their radar.



716601



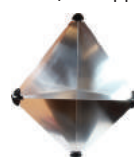
716604

Part no.	Mount	Range nautical miles	Length mm	Diameter mm
<b>716601</b>	Sail	2.5	600	50
<b>716602</b>	Base	2.5	600	50
<b>716603</b>	Sail	4	600	100
<b>716604</b>	Base	4	600	100

#### Foldable

Radar reflector using a specially angled foldable body constructed from aluminium and supplied with a PVC storage bag. The design makes it highly reflective from all angles to return any radar waves from other boats to ensure your boat appears on their radar.

RORC/IOR approved



716605

Part no.	Diagonal dimensions mm	Height mm	Width mm
<b>716605</b>	470	340	340
<b>716606</b>	300	210	210



*It is important to mount the radar reflector as high and as vertically as possible to maximise visibility.*

### SCANSTRUT Cable Glands

- Waterproof
- Easy and reliable installation
- No need to remove cable connectors
- IPX6 & IPX7 approved



Part no.	Type	Diameter mm	Cable diameter mm	Height mm
<b>715461*</b>	Plastic	-	2 - 6	20
<b>715462</b>	Plastic	30	2 - 6	17
<b>715463</b>	Plastic	39	2 - 8	19
<b>715464</b>	Plastic	49	4 - 9	20.5
<b>715466</b>	Plastic	59	9 - 14	20.5
<b>715467</b>	Plastic	69	12-15	21.7
<b>715473</b>	Stainless Steel	39	2 - 8	19
<b>715474</b>	Stainless Steel	49	4 - 9	20.5
<b>715476</b>	Stainless Steel	59	9 - 14	20.5

\*Horizontal cable entry

### SCANSTRUT Multi Deck Seal

Suitable for routing multiple electrical cables up to 15mm in diameter.



715491

Part no.	Type	Height mm	Length mm	Width mm
<b>715491</b>	Aluminium	17	100	47

### SCANSTRUT Bulkhead Seals

Scanstrut waterproof through bulkhead seals for routing multiple electrical cables.

- Waterproof IPX6 and IPX7 approved
- Made from high strength nylon
- Easy to install by a single person from one side of the bulkhead



715493

Part no.	Suitability
<b>715493</b>	4 cables of 16mm diameter
<b>715494</b>	10 cables of 7mm diameter

### Waterproof Deck Plugs and Sockets

For our range of Waterproof Deck Plugs and Sockets, please see Electrical section, page 68.



## PERKO® Flush Lock and Latch

Made from chromed plated brass and black plastic, comes with two keys.

Part no.	Suits panel thickness mm	Diameter hole mm
827731	13 - 19 (1/2" to 3/4")	42 (1-5/8")



827731

### 4Dek® Flush Ring Pull Lifting Catch

- Made from brass with chrome plated finish
- Lift ring folds flush into catch with sprung return action
- Typical uses include lockers and small access panels
- Supplied with catch plate

Part no.	Catch dimensions mm	Plate dimensions mm
831301	57 x 40	18 x 40



831301

### 4Dek® Flush Mount Hatch / Locker Catch

- Made from brass with chrome plated finish
- Catch handle folds flush into the catch
- Lift the handle to reveal the lock
- Typical uses include lockers, hatches and access panels
- Supplied with catch plate

Part no.	Dimensions mm	Board thickness mm	Lockable
831307	53 x 60	8-20	No
831308	53 x 60	8-20	Yes



831308

### 4Dek® Flush Lift Handle Ring

- Made from chromed plated brass
- Folds flush into the catch
- Lifting the handle releases the catch
- Comes with an emergency handle so it can be opened from the inside
- Heavy construction makes this suitable for heavier hatches, boards and access panels
- Supplied with catch plate

Part no.	Dimensions mm	Recess size mm
831305	80 x 100	90 x 70



831305

### 4Dek® Round Ring Pulls

Round flush mounted lifting ring pull.

Part no.	Diameter mm	Material
813203	44	Polished brass
813205	51	Polished brass
813207	67	Polished brass
813211	38	Chromed brass
813213	47	Chromed brass
813217	67	Chromed brass



813203



813217

### 4Dek® Lift Handle Device

- Made from mirror polished stainless steel 316
- Handle folds flush
- Counter stop plate hides screw fixings

Part no.	Diameter mm	Inside diameter mm	Depth mm
831300	90	70	12



831300

### 4Dek® Rectangle Ring Pulls

- Rectangular flush mounted lifting ring pull
- 4 mounting screw holes

Part no.	Size mm	Material
813224	51 x 38	Polished brass
831120	56 x 48	Stainless steel 316
831121	55 x 77	Stainless steel 316



813224



831120

### 4Dek® Stopper For Hatches

Stopper suitable for use with hatches and portholes.

Part no.	Material
831094	Chromed brass
831095	Stainless steel



831094

831095

### 4Dek® Hook

Ideal for mounting poles such as boat hooks, sold in pairs.

Part no.	To suit diameter mm	Base
831020	22-32	Stainless steel



831020

**Please note** More hooks available on page 10.

### 4Dek® Clips / Brackets

Clips suitable for holding poles, boat hooks or fishing rods.

Part no.	To suit diameter mm	Base	Sold
831021	25-32	Stainless steel	Per pair
831022	30-35	Stainless steel	Singularly
831023	25-35	Plastic nylon	Per pair



831021



831022



831023

### 4Dek Lifting Handles

Simple but stylish lifting handles. The bases mount with 4 screws and incorporates a sunken pull handle.



Part no.	Handle overall dimensions mm	Material	Spring return
831309	50 x 75	Chromed brass	No
831310	60 x 90	Chromed brass	No
831311	57 x 77	Stainless steel	No
831312	55 x 65	Stainless steel	Yes
831313	38 x 40	Stainless steel	Yes
831314	65 x 50	Chromed brass	No
831315	38 x 45	Chromed brass	No

### 4Dek Folding Rings

- These folding deck rings are made from stainless steel
- Features vibration dampening rubber washers
- Designed to be strong and highly resistant



Part no.	Size mm	Breaking load kg
831180	48 x 49	1500
831185	48 x 49	1500
831186	45 x 45	900
831187	51 x 51	1500
831188	76 x 76	3000

### 4Dek Chromed Brass Bow Handle



813660

- Classically styled marine bow handle
- Suitable for installation at the front of the boat
- Made entirely from chromed brass
- Features 4 holes for screw mounting (screws not included)

Part no.	Length mm	Width mm	Height mm
813660	200	33	35

### 4Dek Chromed Brass Stern Handle



813663

- Classically styled marine stern handle
- Suitable for installation at the back of the boat
- Made entirely from chromed brass
- Features 2 holes for screw mounting (screws not included)

Part no.	Length mm	Width mm	Height mm
813663	165	35	45

### 4Dek Inspection Covers



814216

- Constructed from polypropylene
- Fully watertight
- Fitted with a rubber 'O' ring
- Base screws into position and is opened using the screw turning lock (screws not included)



814224



814236

Part no.	Inside diameter mm	Outside diameter mm	Mounting flange / lid colour
814214	102	147	White / White
814215	125	172	White / White
814216	152	205	White / White
814217	203	260	White / White
814224	102	147	Black / Black
814225	125	172	Black / Black
814226	152	205	Black / Black
814227	203	260	Black / Black
814234	102	147	White / Clear
814236	152	205	White / Clear
814237	203	260	White / Clear

### 4Dek Inspection Covers - Concealed Screw Holes



814202



814203

- Constructed from polypropylene
- Fully watertight
- Can be flush mounted into the required surface
- Base screws into position and the rotating locking cap then covers the screw

Part no.	Inside diameter mm	Outside diameter mm	Colour
814201	100	135	Black
814202	155	204	Black
814203	100	135	White
814204	155	204	White

### 4Dek Watertight Inspection Hatch

- Constructed from white ABS plastic
- Fitted with a nylon object / document bag behind
- Screw threaded cover is sealed with an 'O' ring



814209

Part no.	Opening diameter mm	Outside diameter mm
814209	150	205



## Aluminium Locker Door

- Whale TCL3 is a watertight aluminium locker door
- Provides strong and secure access to compartments and storage areas
- Quick release cam lock cover for easy access



814030

Part no.	Aperture dimensions mm
814030	143 x 82.5



## Plastic Locker Doors

- Whale TCL4 is a watertight locker door
- Provides strong and secure access to compartments and storage areas
- Approved for use on lifeboats
- Supplied with a clear screw cover protected by a nitrile rubber seal



814041

Part no.	Colour door	External flange diameter mm	Internal opening diameter mm	Cut out diameter mm
814041	Black	236	179	190
814042	Clear	236	179	190



## Plastic Inspection Hatches

- Made from white Luran plastic
- Hatch handles also folds in flush and covers the optional key lock (814300 - see below) where fitted
- Features an 'anti-skid' finish

Part no.	Flange/ hatch cover outer mm	Opening mm	Colour	Cut out mm
Flush hinges and door completely hides the frame				
814301	380 x 280	295 x 198	White	310 x 210
814302	600 x 350	513 x 265	White	530 x 280
814303	375 x 375	285 x 285	White	300 x 300
814304	520 x 465	430 x 375	White	445 x 390
814305	600 x 250	515 x 165	White	530 x 180
814321	380 x 280	295 x 198	Black	310 x 210
814322	600 x 350	513 x 265	Black	530 x 280
814323	375 x 375	285 x 285	Black	300 x 300
814324	520 x 465	430 x 375	Black	445 x 390
814325	600 x 250	515 x 165	Black	530 x 180
814341	380 x 280	295 x 198	Grey	310 x 210
814342	600 x 350	513 x 265	Grey	530 x 280
814343	375 x 375	285 x 285	Grey	300 x 300
814344	520 x 465	430 x 375	Grey	445 x 390
814345	600 x 250	515 x 165	Grey	530 x 180
Door covers the mounting screws once closed				
814308	295 x 198	380 x 280	White	310 x 210
814309	513 x 265	600 x 350	White	530 x 280



814301



814303



814321



814322



814344



814345



814308



814309

### 814300

This easy to fit lock kit is suitable for use with all deck hatches.



814300



## Gas Struts

- Stainless steel
- Features a vent valve, which allows the elevated standard push-in force of the spring to be customised depending on the weight of the hatch
- Supplied with a key for the vent valve
- Fitted with stainless steel eyelets

Part no.	Push-in force	Open dimensions mm	Stroke dimensions mm
832000	40kg	272	81
832003	70kg	377	132
832007	70kg	522	205
832009	70kg	272	81



832000



832007

 **Bolt On Bollards**

Vetus stainless steel mooring bollard suitable for marine applications. Made from stainless steel with a high gloss polished finish and is bolted down using 4 screws (not included).



813100

Part no.	Vetus type	Overall height mm	Overall width mm	Bollard diameter mm	Base dimensions mm	Maximum working load kgf
813100	Achilles090	95	130	51	92 x 92	620
813102	Achilles110	121	160	60	122 x 97	1150
813103	Achilles130	143	181	70	140 x 118	1150
813104	Achilles150	171	203	79	153 x 122	1800



813651

813655



813659-2

 **Stainless Steel Raked Bollards**

High quality, mirror polished stainless steel 316 bollard from 4Dek. These bollards are fixed with a two stud mounting, and are very strong and durable.

Part no.	Base length mm	Overall length mm	Width mm	Height mm	Centre distance mm	Stud diameter mm	Stud kit Part no.
813651	160	160	60	55	71.8	10	813659-1
813652	170	200	67	75	77.3	14	813659-2
813653	200	240	69	90	87.2	14	813659-2
813654	260	300	79	100	128.7	16	813659-4
813655	300	350	86	115	165	16	813659-4

 **Aluminium Deck Cleats**

Made from anodised aluminium with a fine polish finish.



813313

Part no.	Overall length mm	Mounting base length mm	Mounting base width mm
813310	120	34.8	30.6
813311	150	46	40
813313	200	52.9	50
813315	250	72	68.7

 **Pop Up Deck Cleats**

- Made from mirror polished stainless steel 316
- Can be left in the up or down position
- Installed into a hole and then secured to the deck



813801

Part no.	Base length mm	Base width mm	Hole diameter mm
813800	89	31	22
813801	134	41	22

 **Heavy Duty Deck Cleats**

Heavy duty hollow deck cleat, made from stainless steel.



813603

Part no.	Overall length mm	Mounting base length mm	Mounting base width mm
813601	150	56	39
813603	200	74	41
813605	250	93.2	47.5

 **Low Profile Deck Cleats**

Made from stainless steel.



813613

Part no.	Overall length mm	Mounting base length mm	Mounting base width mm
813611	150	51.8	41.5
813613	200	57.2	41.6
813615	250	54.4	45.2

 **Hollow Deck Cleats**

4Dek hollow deck cleat, made from stainless steel.



813645

Part no.	Overall length mm	Mounting base length mm	Mounting base width mm
813640	125	54.2	24.7
813641	150	57.4	27.2
813643	200	71.2	33.3
813645	250	93.2	44.6
813647	300	100	49.2

 **Belaying Cleats**

- Constructed from chromed brass
- Suitable for belaying rope on deck
- Designed to be strong yet light
- Cleat is fastened with 2 screws



813692

Part no.	Length mm
813691	80
813692	130

 **Aluminium Fairleads**

- Made from marine grade aluminium
- Handed
- Sold per pair



813322

Part no.	Overall length mm (inch)	Overall width mm (inch)	Maximum rope diameter mm (inch)
813322	140 (5-1/2")	28 (1-1/8")	20 (3/4")
813326	170 (6-3/4")	32 (1-1/4")	21 (7/8")
813327	210 (8-1/4")	40 (1-5/8")	29 (1-1/8")
813328	253 (10")	49 (1-7/8")	32 (1-1/4")

## 4Dek Stainless Steel 316 Handed Fairleads

- Made from stainless steel 316, with a high polish finish
- Sold per pair

Part no.	Overall length mm (inch)	Overall width mm (inch)	Maximum rope diameter mm (inch)
813620	115 (4-1/2")	18 (3/4")	16 (5/8")
813623	150 (5-7/8")	33 (1-1/4")	20 (3/4")
813625	150 (5-7/8")	28 (1-1/8")	23 (7/8")
813627	205 (8-1/8")	40 (1-5/8")	30 (1-1/8")
813628	253 (10")	49 (1-7/8")	33 (1-1/4")



813620



813627

## 4Dek Stainless Steel 316 Straight Fairleads

Made from stainless steel 316, with a high polish finish.

Part no.	Overall length mm (inch)	Overall width mm (inch)	Maximum rope diameter mm (inch)
813621	127 (5")	24 (1")	13 (1/2")



813621

## 4Dek Corner Fairlead

- Cast in stainless steel 316 with a mirror polished finish
- Suitable for use on bow or stern corners

Part no.	Overall length mm (inch)	Overall width mm (inch)	Maximum rope diameter mm (inch)
813696	105 (4-1/8")	60 (2-3/8")	14 (1/2")



813696

## 4Dek Stainless Steel Eye Plates

From the ASAP 4Dek range of deck fittings and hardware. The all stainless steel construction makes these eye plates strong and robust. Suitable for installations on boat decks.

### Round Base Eye Plates

Secured using 2 bolts, one on each side of the mounting plate.



813635

Part no.	Base diameter mm	Eye diameter mm	Overall height mm	Eye thickness mm
813633	33	12	20.5	5
813634	40	17	25.5	6
813635	50	23	31	8

### Square Base Eye Plates

Secured using 4 bolts, one on each corner of the mounting plate.

Part no.	Base dimensions mm	Inside eye dimensions mm (h x w)	Eye thickness mm
813630	30 x 35	19 x 14	5
813631	35 x 40	26 x 18	6
813632	40 x 50	33 x 20	8
813636	48 x 60	40 x 25	10
813638	32 x 26	13 (diameter)	5
813639	46 x 38	22 (diameter)	6



813636



813639

### Round Base Eye Plates with Hidden Screw

Secured using a hidden screw underneath the mounting plate.



813683

Part no.	Base diameter mm	Eye diameter mm	Overall recess mm	Eye thickness mm	Screw size
813681	32	12	20	5	M6
813682	40	17.5	22	6	M8
813683	50	23	25	8	M10

### U-Bolts

- High quality u-bolts
- Made from mirror polished stainless steel
- Used as a heavy duty eye plate for when extra size or strength is required
- Two plates, supplied with nuts
- Top plate is welded onto the bolt



813679

Part no.	Diameter mm	Overall height mm	Bolt width centre to centre mm	Hole height mm	Hole width mm	Plate adjustment mm
813673	9.5	110	35.7	35	26.1	53.5
813677	12.5	131	46	41	34	66.2
813679	15.8	160	60	69	47.5	81

Same day despatch available on stock items -  
Order by 3.30pm Monday - Friday

## Anchor Accessories



821351



821353



821362

 Stainless Steel Bow Rollers

- For use as an anchor pulley
- Made from mirror polished stainless steel 316
- Has a nylon pulley
- Suitable for ropes up to 14mm and chains up to 8mm

Part no.	Overall length mm	Overall width mm	Height mm	Base dimensions mm
821351	155	51	72	101 x 51
821353	130	60	77	90 x 90
821362	210	57	70	70 x 56



827571



827572

**PERKO®** Rope Deck Pipes

- Perko 1057 rope deck plates
- Made from U.V. stabilised, fibre reinforced high impact plastic
- Hinged snap-down pipe cover features an improved design allowing the cover to lay flat

Part no.	Colour	Maximum rope size mm (inch)	Flange diameter mm (inch)
827571	Black	22 (7/8")	95.25 (3-3/4")
827572	White	22 (7/8")	95.25 (3-3/4")

 Hawsehole

- Suitable for mounting in the hawse of a boat, allowing anchor chains, windlass chains and hawser rope etc. to pass through
- Made from stainless steel



821304

Part no.	External dimensions mm	Eye dimensions mm	Maximum neck length mm
821304	140 x 63	97 x 37	22

 Folding Step Plate

- Made from stainless steel 316
- Comprises a mounting base and a step that folds out



831202

Part no.	Base dimensions mm	Step dimensions mm	Closed mm	Open mm
831202	110 x 45	50 x 85	130	110

 Folding Mast Step

- Made from mirror polished stainless steel 316
- Fitted with an anti vibration device
- Comprises a mounting base and a step that folds out

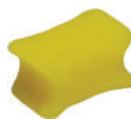


831203

Part no.	Base dimensions mm	Step dimensions mm	Closed mm	Open mm
831203	109 x 65	140 x 34	38	145



621231



621232



621233



621234



621235

 Anchor Chain Markers

Consider fitting the inexpensive anchor chain markers to every metre of your chain to accurately measure the length of chain deployed.

Part no.	Size mm	Colour	Pack of
621231	6	Red	14
621232	6	Yellow	14
621233	6	Green	14
621234	6	Blue	14
621235	6	White	14
621241	8	Red	10
621242	8	Yellow	10
621243	8	Green	10
621244	8	Blue	10
621245	8	White	10
621251	10	Red	8
621252	10	Yellow	8
621253	10	Green	8
621254	10	Blue	8
621255	10	White	8
621261	12	Red	8
621262	12	Yellow	8
621263	12	Green	8
621264	12	Blue	8
621265	12	White	8

 Swivelling Connectors For Anchors

Mirror polished stainless steel 316 swivelling anchor connector. This connector is used to attach the chain to the anchor and lets the anchor chain slide smoothly through the stemhead, minimising the risk of entangling the shackle. The anchor connector has no overhanging parts and has been reinforced for extra strength and reliability.



621204

Part no.	For chain diameter sizes mm	Length mm
621203	6 - 8	95
621204	6 - 8	90
621205	9 - 10	120

## Emergency Rescue Ladder

- Watertight thermoplastic housing
- To be mounted in an appropriate position using a nut on the back
- 3 thermoplastic steps
- When the locking cap is pulled open using the easy to reach handle, the nylon braid ladder will unravel and assist in climbing back on board
- Must be installed above the waterline



831213

Part no.	Housing overall height mm	Housing overall length mm	Housing length outside of boat mm	Ladder length mm	Ladder width mm
831213	80	185	52	1100	135

## Telescopic Ladder

- Made from mirror polished stainless steel
- Designed to fold under the pilot bridge, and easily slides out and locks in position
- Comes with plastic foot boards



831211

Part no.	Open length mm	Closed length mm	Maximum width mm	Steps	Pipe diameters mm
831211	880	370	300	3 white	31/25/19
831223	889	370	300	3 white	32/25/19
831224	1156	394	315	4 white	38/32/25/19
831233	889	370	300	3 black	32/25/19
831234	1156	394	315	4 black	38/32/25/19
831242	597	340	210	2 white	32/25
831245	889	368	210	3 white	32/25/19
831246	889	368	392	3 white	32/25/19

## Pipe Mount Fishing Rod Holders

- Polished stainless steel 316 fishing rod holders
- Can be mounted to a pipe or railing
- Can easily be adjusted to 360° horizontal and vertical swivel on the mounting pipe using its special adjustable screw without the need to unscrew the clamp

Part no.	For pipe diameter mm	Height mm	Inside diameter mm	Clamp outside diameter mm
813901	22-25	225	42	47.6
813902	30-35	225	42	47.6



813901

## Single Angled Fishing Rod Holders

Part no.	Height mm	Width mm	Rod holder inside diameter mm	Material
813905	280	90	42	White nylon and stainless steel 316 top
813907	250	90	42	Stainless steel
813908	255	90	42	Stainless steel and protection rubber bushing. Has a rod link.



813905



813907



813908

## Plastic Wall Mount Fishing Rod Holders

- Made from white plastic
- Designed to be wall mounted
- The fishing rod holders come complete with a fitted bracket with housing for pliers and knives

Part no.	Holds number of fishing rods	Height mm	Width mm	Rod holder inside diameter mm
813924	3	257	300	44
813925	1	256	143	44



813924



813925

## Wall Mount Multiple Fishing Rod Holders

- Designed to be wall mounted
- Supplied with plastic bushes for fishing rod protection
- Supplied with a fitted bracket with housing for pliers and knives
- Made from mirror polished stainless steel

Part no.	Holds number of fishing rods	Height mm	Width mm	Rod holder inside diameter mm
813921	2	235	280	44
813922	3	235	280	44



813921



813922

**4Dek® Polished Brass Fillers**

- Fillers constructed from polished brass
- Supplied with neoprene 'O' ring seal
- Has a slotted lid and three countersunk holes
- Cut out 54mm



305000



305050

Water	Diesel	Hose size mm (inch)	Height mm	Overall diameter mm
305002	305000	38 (1-1/2")	65	83
305006	305004	51 (2")	65	83
305051	305050	1-1/2" BSPF	48	83

**4Dek® Chromed Brass Fillers**

- Fillers constructed from chromed brass
- Supplied with neoprene 'O' ring seal
- Has a slotted lid and three countersunk holes
- Cut out 54mm



305003



305005

Water	Diesel	Hose connector mm	Thread size BSPF	Height mm	Overall diameter mm
305003	305001	38 (1-1/2")	-	65	83
305007	305005	51 (2")	1-1/2"	65	83



305007 and 305005 have a BSP female thread and a barbed hose tail connection.

**PERKO® Fillers**

305562



305571



305534



305587



305541

Part no.	Model no.	Filler hose mm (inch)	Vent hose mm (inch)	Type	Straight / Angled
<b>Black polymer body with a chrome plated bronze cap</b>					
305561	0540DPGCHR	38 (1-1/2")	16 (5/8")	Gas (petrol)	Angled
305562	0540DPDCHR	38 (1-1/2")	16 (5/8")	Diesel	Angled
305563	0540DPWCHR	38 (1-1/2")	16 (5/8")	Water	Angled
305571	0541DPGCHR	38 (1-1/2")	16 (5/8")	Gas (petrol)	Straight
305572	0541DPDCHR	38 (1-1/2")	16 (5/8")	Diesel	Straight
305573	0541DPWCHR	38 (1-1/2")	16 (5/8")	Water	Straight
<b>Black polymer with flip lid</b>					
305531	1319DPGBLK	38 (1-1/2")	16 (5/8")	Gas (petrol)	Straight
305533	1319DPWBLK	38 (1-1/2")	16 (5/8")	Water	Straight
305534	1319DPL001	38 (1-1/2")	16 (5/8")	Fuel (generic)	Straight
305536	1318DPGBLK	38 (1-1/2")	16 (5/8")	Gas (petrol)	Angled
<b>Bronze with chromed finish</b>					
305587	0577D00CHR	51 (2")	16 (5/8")	Diesel	Straight
<b>White polymer with flip lid</b>					
305541	1319DPGWHT	38 (1-1/2")	16 (5/8")	Gas (petrol)	Straight
305543	1319DPWWHT	38 (1-1/2")	16 (5/8")	Water	Straight

**PERKO® Universal Fillers With Labels**

- Perko 0582 multi-purpose deck filler
- Scalloped chrome plated bronze cap and black plastic body
- Comes with colour coded resin inserts, 1 each for gasoline (petrol), water, diesel and waste
- Deck plate key included



305556

305559 Deck filler inserts

Part no.	Hose size mm (inch)	Vent hose mm	Neck length mm	Neck type
305556	38 (1-1/2")	16	62	Angled
305557	38 (1-1/2")	16	62	Straight

**PERKO® Filler Accessories**

305549

**305549**

Perko 0525 fuel filler locking insert. Help prevent fuel theft. This unique designed locking insert can be used for all the Perko 38mm vented deck fillers. Made from black plastic with zinc alloy lock cylinder. The dual purpose key opens filler cap and locking insert.



305599

**305599**

Perko 0826 adjustable deck plate key

- Suitable for deck plates up to 203mm (8") diameter
- Features a chrome plated zinc alloy construction, with a hardened steel pin
- Overall length: 216mm (8-1/2")

## 4Dek Stainless Steel Fillers

- Constructed from mirror polished stainless steel 316
- Three countersunk holes
- Supplied with locking keys
- R.I.N.A certified



305701

Part no.	Hose size mm (inch)	Height mm	Overall diameter mm	Cut out mm	Type
305701	38 (1-1/2")	87	88	51	Fuel
305703	38 (1-1/2")	87	88	51	Water
305705*	38 (1-1/2")	87	88	51	Waste
305711	51 (2")	87	88	51	Fuel
305712	51 (2")	87	88	51	Diesel

\* This filler does not lock.

## 4Dek Aluminium Fillers With Flip Lid

- Filler constructed from marine grade aluminium
- Flip up lid
- Three countersunk holes



305503

Part no.	Hose size mm (inch)	Height mm	Overall diameter mm	Cut out mm	Type	Spare cap
305502	38 (1-1/2")	70	84	42	Water	305510
305503	38 (1-1/2")	70	84	42	Fuel	305511
305505	51 (2")	70	84	42	Fuel	305511

## 4Dek Chromed Brass Fillers

- Constructed from chromed brass
- Supplied with neoprene 'O' ring seal
- Slotted, flip lid
- Three countersunk holes



305524

Part no.	Hose size mm (inch)	Height mm	Overall diameter mm	Cut out mm	Type
305522	38 (1-1/2")	65	90	51	Water
305523	38 (1-1/2")	65	90	51	Diesel
305524	51 (2")	65	90	51	Water
305525	51 (2")	65	90	51	Diesel

## 4Dek Nylon Fuel & Water Fillers

- Fuel filler constructed from petrol and diesel resistant nylon
- Slotted lid
- Four countersunk holes

305454 - 4Dek spare deck filler key (slotted cap)



305416



305426

Part no.	Hose size mm (inch)	Height mm	Overall diameter mm	Cut out mm	Type	Spare cap
305406	38 (1-1/2")	80	91	54	Fuel / Diesel	305451
305416	38 (1-1/2")	80	91	54	Water	305450
305426	51 (2")	80	93	54	Fuel / Diesel	305451
305436	51 (2")	80	93	54	Water	305450 305452

## 4Dek Nylon Flip Water Filler

305465

Made from nylon / plastic to EC standards. The deck filler has flat edges to the flange. The filler cap features an integral pop up handle.



305465

Other filler labels are available, please see page 11.



728071

## Deck Plate Filler Keys



305055



305454



305644



305798



305598



305599

Part no.	Type
305055	2 hole lid
305454	Slotted lid
305644	Hexagonal, slotted and 2 hole lids
305798	Winch socket lid
305799	Winch socket lid (stainless steel)
305598	Slotted and 2 hole lids
305599	Adjustable for up to 203mm diameter lid

## 4Dek Deck Filler Covers

- Made from stainless steel 316
- Lockable deck filler cover plate
- Mirror polished finish
- Fits almost all deck fillers on the market
- Can be fitted using existing securing screws on your deck filler and secured with a padlock (not supplied).



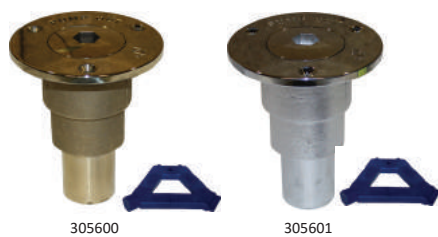
305791



305792

Part no.	Type
305791	Gasoline (petrol)
305792	Diesel

### 4Dek Pump Out Brass Deck Plate



- Deck filler is labelled "Pump Out"
- Supplied with a hexagonal style deck key to open the lid
- Complies with ISO 4567 and BS 7162 specifications

Part no.	Hose size mm (inch)	Overall height mm	Flange diameter mm	Flange thickness mm	Material
305600	38 or 51 (1-1/2" or 2")	120	100	6	Polished brass
305601	38 or 51 (1-1/2" or 2")	120	100	6	Chromed brass

#### 305644

Replacement deck filler key (hexagonal cap)



### Pump Out Stainless Steel Deck Plate



#### 305705

- Deck filler is labelled "Waste"
- Made from stainless steel
- 38mm hose size

305705



### Deck Entry Key



V-KEY1

#### V-KEY1

The Vetus KEY1 key for slotted stainless steel deck entries is also suitable for deck entries with an octagonal recess.



### Pump Out Nylon Deck Plate



305620

Deck filler is supplied with the required key.

Part no.	Hose size mm (inch)	Overall height mm	Flange diameter mm	Flange thickness mm	Material
305620	38 (1-1/2")	76	95	3	Black nylon

#### 305454

Replacement deck filler key (slotted cap).

## Deck Plates



### Cast Bronze Deck Plates

- Cast bronze marine deck plate
- Cap is sealed with an 'O' ring
- Plate is secured with 4 screw holes in the flange
- Deck plate is supplied with the required key



305302

Part no.	Deck plate thread BSP	Outside diameter mm	Opening diameter mm	Cut out diameter mm	Overall height mm	Replacement key
305300	2"	108	56	70	45	305310
305301	2-1/2"	130	72	83	50	305310
305302	3-1/2"	175	97	112	56	305304
305303	5"	210	135	150	35	305304

### PERKO® Cast Bronze Deck Plates

- Perko 0526 regular deck plate
- Cast bronze construction
- Deck plate is supplied with the required key
- No inner 'O' ring



305334

Part no.	Outside diameter mm	Opening diameter mm
305333	136	76
305334	179	102
305335	212	127
305336	238	152



### Stainless Steel Deck Plate

- Deck access plate
- Made from cast stainless steel 316 with mirror polished finish
- 'O' ring seal
- Threaded lid features a multi-socket which can be opened or closed with a winch handle, square drive or pronged key



305324

Part no.	Opening mm	Cut out size mm	Overall diameter mm
305324	95	109.5	141

## SEAFLOW Stainless Steel 316 Flush Deck Drains

Supplied with mirror polished ground connections and a fixing nut and washer. For more information, please see Fittings section, page 133.

Part no.	Hose tail diameter mm (inch)
511034	19 (3/4")
511035	25 (1")
511036	32 (1-1/4")
511037	38 (1-1/2")
511038	45 (1-3/4")



511037

## SEAFLOW Cockpit Drains

- Constructed from marine grade 316 stainless steel
- Removable grate to allow for easy cleaning and maintenance



511054



511048

Part no.	Shape	Dimensions mm	Hose outlet mm	Angle outlet	Built in non-return valve
511048	Round	92 diameter	40	45°	Yes
511054	Oval	190 x 92	38	90°	No

## SEAFLOW White Plastic 90° Deck Drain

- A grated well to filter large materials
- Supplied with a fixing nut and washer

Part no.	Hose tail diameter mm (inch)
511573	19 (3/4")
511575	28 (1-1/9")
511577	38 (1-1/2")



511577



## CR (DZR) Brass Drain Scuppers

Designed for installation at deck level to drain off sea water or rain water.



511105

Part no.	Thread BSP male	Overall length mm	Thread length mm	Scupper depth mm
511103	1/2"	97	72.5	46.5
511104	3/4"	107	82	54
511105	1"	103	77	56.5
511106	1-1/4"	105	79	64
511107	1-1/2"	113	82	69



More Drain Scuppers available. Please see Fittings section, page 132.



## Brass Countersunk Deck Drains

Supplied with a fixing nut and washer. For more information, please see Fittings section, page 133.

Part no.	Thread	Inside diameter mm
511002	3/8"	34
511003	1/2"	40
511004	3/4"	49
511005	1"	56
511006	1-1/4"	65
511007	1-1/2"	72
511008	2"	84



511005



## CR DZR Countersunk Deck Drains

Suitable for below waterline applications. Supplied with a fixing nut and washer.

For more information, please see Fittings section, page 133.

Part no.	Thread
511022	3/8"
511023	1/2"
511024	3/4"
511025	1"
511026	1-1/4"
511027	1-1/2"
511028	2"



511027

## SEAFLOW White Plastic Straight Deck Drains

- A grated well to filter large materials
- Supplied with a fixing nut and washer

Part no.	Hose tail diameter mm (inch)
511586	32 to 38 (1-1/4" to 1-1/2")
511587	38 (1-1/2")



511586



## GRP Scuppers With Flap

- Centek scupper drain fitting located in the side or aft of the boat to allow water drainage
- Features a flapper fastened with a stainless steel pin which prohibits the reverse flow of water

Part no.	Colour	Opening diameter mm	Flange diameter mm	Length mm
C 1200134	White	73.1	106.4	76
C 1200252	Black	73.1	106.4	76



C 1200134

## SEAFLOW Drain Plugs

Suitable for closing drains and holes on board boats. The plugs are supplied with a sealing washer to ensure water tightness.

Part no.	BSP male
407982	1/4"
407983	1/2"
407984	3/4"
407985	1"



407985



# DOMESTIC WATER SUPPLY

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## Marine Calorifiers

A calorifier is a simple and efficient means of heating water in your domestic system, for use with showers, taps and the galley. Comparable to a domestic boiler, these calorifiers have an inlet for cold water, but then use a link from the engines closed cooling circuit to heat the inner coil and in turn the water. They are also supplied with an immersion heater with a built in thermostat. The Hotpot range of calorifiers can therefore provide you with free hot water while motoring or charging batteries.

The calorifier heats quickly as the drop coil technology ensures quick transfer of heat from the coil to the water. The outside of the calorifier is insulated in a polyurethane jacket designed to retain heat for up to 24 hours after the engine is switched off. Each calorifier is rigorously tested to ensure excellent quality and reliability.

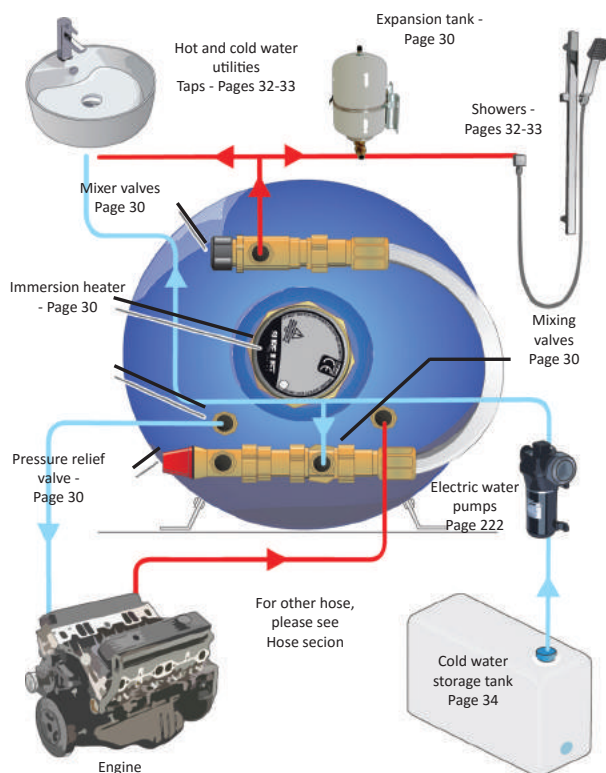
Water stored in the calorifier reaches the same temperature as the engine, generally about 85°C. When hot water is needed, the calorifier uses a thermostatic mixing valve to combine this water with cold water to give the required water temperature.

For maximum heating efficiency, Hotpot water heaters should only be installed on engines with closed, pressurised cooling systems where the coolant water exceeds 74°C. Please contact us if your coolant water doesn't exceed 74°C, as we may still be able to help.

### Why Copper?

Hotpot calorifiers are made from 100% copper. This gives the best heat transfer performance as well as health benefits because copper has excellent anti-bacterial qualities, especially when compared to stainless steel and plastic materials. In tests, after seven days of immersion in water, 80% of stainless steel and plastics were coated in a biofilm, while copper showed little to no biofilm. Biofilms pose a significant threat to human health as they consist of E.coli 0157 and other microbiological bugs.

### Typical System Diagram



## HOTPOT Universal Mount Calorifiers

- Can be installed horizontally or vertically
- Very efficient
- Quick and easy to install
- 100% copper tank

All universal Hotpot units are supplied fully piped with:

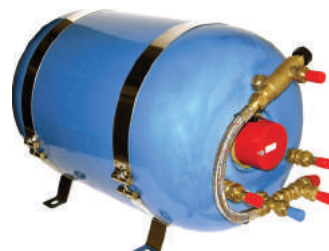
- 13mm domestic barbs
- 16mm coil barbs
- 1000w immersion
- Brackets
- Safety mixer
- 4 bar pressure relief valve with 16mm barb

Single coil	Twin Coil	Size litres	Height mm (inch)	Width mm (inch)	Length mm (inch)
520115	-	15	245 (9.65")	240 (9.45")	640 (25.2")
520122	520322	22	350 (13.78")	340 (13.39")	550 (21.65")
520130	520330	30	350 (13.78")	340 (13.39")	630 (24.8")
520140	520340	40	350 (13.78")	340 (13.39")	760 (29.92")
520155	520355	55	350 (13.78")	340 (13.39")	975 (38.39")
520165	520365	65	410 (16.14")	400 (15.75")	850 (33.46")
520175	520375	75	410 (16.14")	400 (15.75")	1000 (39.37")

All dimensions include fittings and mounting feet.



520130  
Vertical



520130  
Horizontal

## HOTPOT Vertical Mount Calorifiers

Each vertical unit has two coils, so can be installed on single or twin coil applications. You can blank off a coil to make these units single coil. For details on how to do this, please contact our helpful sales team. Fitting kits need to be purchased separately, these are listed on the next page.

Twin coil	Size litres	Height mm (inch)	Diameter mm (inch)
520227	27	455 (17.9")	375 (14.76")
520232	32	510 (20.08")	420 (16.54")
520250	50	820 (32.28")	345 (13.58")
520272	72	600 (23.62")	510 (20.08")
520290	90	800 (31.5")	510 (20.08")

All dimensions include fittings and mounting feet.



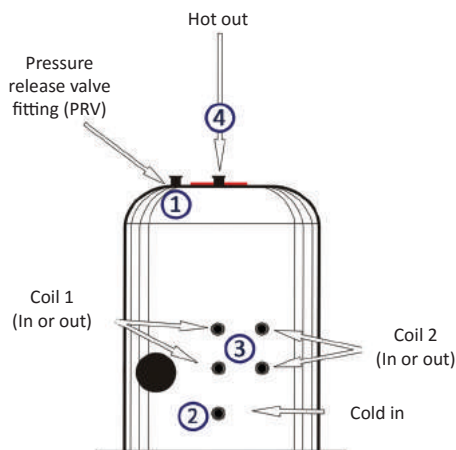
520232

## HOTPOT Fitting Kits - Vertical

(Ref. diagram 1-4)



520904



### 520904

4 bar PRV with fittings to suit 16mm PRV and coil connections and 13mm domestic.  
5 x 16mm barbed hose connections  
2 x 13mm barbed hose connections

### 520905

4 bar PRV with fittings to suit 16mm PRV and coil connections and 15mm domestic.  
5 x 16mm barbed hose connections  
2 x 15mm domestic spigots for use with compression and HEP20

### 520906

4 bar PRV with fittings to suit 16mm PRV, coil and domestic connections.  
7 x 16mm barbed hose connections

## Optional Tank Fitting Kits

### 520913

2 x 13mm tails and olives to convert the engine coil fittings from 15mm to 13mm O.D. hose (need one kit per coil).

### 520915

6 x 15mm O.D. tails and olives to convert domestic and coil fittings to 15mm for compression / HEP20 fittings (need one kit per coil).

### 520916

2 x 16mm tails and olives to convert the 13mm domestic in and out to 16mm hose tails (need one kit per coil).



520915



520605

## HOTPOT Accumulator / Expansion Tanks

These Hotpot tanks can be used as either accumulators (on the cold water side) or expansion tanks (on the hot water side). As an accumulator, they will assist in the smooth flow of water, designed to compensate for unequal flows and avoid unnecessary pump operation. As an expansion tank, they compensate for the expansion as the water in the Hotpot calorifier tank is heated. Their use is especially recommended for multi-outlet applications and if the vessel has a shower installed. All Hotpot accumulator / expansion tanks come complete with mounting brackets and a 13mm hose spigot. Please visit our website for more details [www.asap-supplies.com](http://www.asap-supplies.com).

Part no.	Size litres	Length mm (inch)	Width mm (inch)	Height mm (inch)
520602	2	295 (11.61")	175 (6.89")	185 (7.28")
520605	5	370 (14.57")	170 (6.69")	180 (7.09")
520608	8	394 (15.51")	215 (8.46")	230 (9.06")
520624	24	475 (18.70")	300 (11.81")	320 (12.60")

All dimensions include fittings and mounting feet.

## HOTPOT Calorifier Spares and Accessories

### Immersion Heaters

- Feature thermostats
- 2-1/4" BSP male thread with 'O'-ring
- Element length 280mm



520921

Part no.	Kw	Volts
520921	1	240
520922	1.25	240
520923	1.5	240

### Other Accessories

#### 518700

Plug for Hotpot immersion hole 2-1/4" BSP



518700

#### 518701

'O'-ring for 2-1/4" BSP male thread



518701



520955

### Mixer Kit

#### 520955

Safety mixer kit, mixes cold and hot water to set temperature. Mixer kit with 15mm compression fittings.

### Pressure Relief Valves

Part no.	Size BSP female	PRV bar (PSI)
518771	1/2"	1.8 (26.1)
518773	1/2"	3 (43.5)
518775	1/2"	4 (58)



518773

### Fittings

Part no.	Description
518550	1/2" BSPF to 15mm compression
518569	1/2" BSPM to 15mm compression



518569

## Silicone Hose

**206712**

90° 32mm silicone hose elbow with 13mm calorifier outlet.



206712

For more hose, please see Hose section, page 175.

## Hot Water Hose

Ideal for use as engine coolant hose with a temperature range of -40°C to +125°C



206425

## Engine Outlet

**206799**

Outlet BMC head to 13mm (1/2") hose for heater.



206799

For other fittings, see page 112.



## HOTPOT Drinking Water Filter

**508731**

The Hotpot drinking water filter is the ideal solution for marine potable water systems. It can also be used in the fresh water systems in motor homes, caravans and RV's. It contains a 5 micron particle filter element. The element will remove rust, sand, algae and suspended solids. The filter element also has a built in activated charcoal core to remove contaminants and undesirable odours.

- Maximum flow rate: 12 lpm
- Maximum pressure bar (psi): 8.6 (125)
- Ports BSPF: 3/4"
- Suitable for cold water only (maximum 33°C)
- Supplied complete with mounting bracket, element and bowl removal spanner for ease of use
- Replacement element: **508732**



508731

## SHURFLO® Inline Water Filter

**508750**

SHURflo premium drinking water filter, designed for marine, motor home and domestic applications. This filter improves the taste and reduces the odour of your water. Features carbon manufactured from raw coconut shells, which creates a larger area for filtration. This extends the life of the water filter and provides superior filtration to regular carbon filters. With this, the filter should be replaced every 6-12 months.

- Dimensions: 63.5mm x 279mm
- Inlet / outlet fittings: 13mm barbs
- Capacity: 22,712 Litres
- Working pressure range: 20 - 125 psi
- Working temperature range: 4.5°C - 37°C
- 9.5 litres per minute (lpm)



508750

## JABSCO Aqua Filta

**508760**

The Jabsco Aqua Filta drinking water filter is an activated carbon water filter that removes unpleasant tastes and smells, including chlorine from water systems and uses silver-impregnated carbon to inhibit bacterial growth. Freshens and cleanses water to make it natural tasting, sweet smelling and crystal clear for bright, clean and fresh tasting drinking water.

- Ports: 1/2"
- Allows for easy cartridge replacement without the need of disturbing pipework by simply unscrewing the old filter element and replacing it with a new one
- Built-in valves so there is no need to isolate or drain the system when replacing the element cartridge
- Up to 14 litres per minute
- Replacement element: **508764**



508760



## AquaSource Clear Inline Water Filters

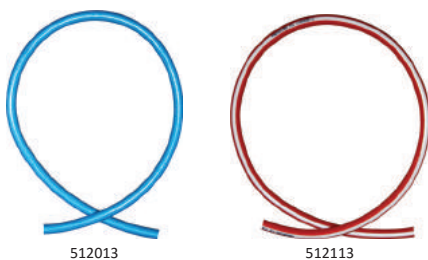
- Removes unpleasant tastes and smells from water in onboard tanks
- Simple installation using the clips supplied
- Maintenance free design
- Can be mounted vertically or horizontally
- Lasts a whole season or 4,500 litres
- Installed in the freshwater plumbing pipework (usually under the sink)
- Maximum pressure 4 bar (60 psi)

Part no.	Overall length mm	Connections
<b>508770</b>	300	1/2" flexible hose
<b>508771</b>	300	15mm push fit fitting



508770

## SEAFLOW Food Quality Plumbing Hose



- Suitable for delivery of drinking water
- Features a non-toxic coating
- The outer colour is useful for denoting the temperature of the hose contents, blue meaning cold, red meaning hot
- Recommended for use with our range of Hotpot domestic water systems
- Sold per 50 metre coil or cut and sold per metre

Per metre	50 metre coil	I.D. mm (inch)	Colour	S/S 316 hose clips
<b>512013</b>	<b>512013-50</b>	13 (1/2")	Blue	<b>416203</b>
<b>512113</b>	<b>512113-50</b>	13 (1/2")	Red	<b>416203</b>

## SEAFLOW Drinking Water Hose



- Suitable for delivery of drinking water, fruit juices and other liquids up to 15% alcohol content
- Features a non-toxic coating
- Recommended for use with our range of Hotpot domestic water systems
- Sold per 50 metre coil or cut and sold per metre

Per metre	50 metre coil	I.D. mm (inch)	S/S 316 hose clips
<b>412738</b>	<b>412738-50</b>	38 (1-1/2")	<b>416209</b>
<b>412751</b>	<b>412751-50</b>	51 (2")	<b>416211</b>

Other types of hose are available, please see the Hose section, page 175.

## Taps and Showers

Taps and showers for heads and galleys. From single faucets to monobloc mixers and combined shower units, we can also provide most of the items to complete your plumbing installation. For help and advice contact our sales team.



### HOTPOT Taps

Part no.	Description	Inlet BSP	Overall length mm	Deck aperture mm
<b>510546</b>	Single spout mono mixer	3/8" female	205	35
<b>510574</b>	Single chromed faucet, spout only	3/8" male	140	25
<b>510584</b>	Single swivel spout tap chromed, cold	3/8" male	210	25
<b>510573</b>	Single spout mono mixer	3/8" male	170	25
<b>510586</b>	Twin mixer with single lowering spout	3/8" male	210	25



### Whale Taps

Part no.	Description	Inlet BSP male	Overall height mm	Overall length mm
<b>510651</b>	Single faucet, cold	1/2"	190	147
<b>510652</b>	Mixer faucet	1/2"	190	222
<b>510661</b>	Single telescopic faucet, cold	1/2"	267 (adjustable)	148
<b>510663</b>	Single compact faucet, cold	3/8"	178	127
<b>510664</b>	Mixer compact faucet	3/8"	178	127

## HOTPOT Taps and Showers



510596



510597



510513



510553



510557

Part no.	Description	Inlet hose tail	Overall length	Overall height	Cut out	Shower hose
510596	Tap and shower twin mixer unit with shower hose	3/8" BSP male	230mm	130mm	40mm	1.5m
510597	Tap and shower twin mixer unit with shower hose	1/2" I.D. hose	130mm	135mm	40mm	1.5m
510513	Tap and shower twin mixer unit with shower hose	3/8" BSP male	120mm	125mm	41mm	2m
510553	Tap and shower twin mixer unit with shower hose	3/8" I.D. hose	190mm	75mm	30mm	1.5m
510557	Tap and shower twin mixer unit with shower hose	3/8" BSP female	260mm	170mm	50mm	1.5m



## Taps and Showers

### 510653

Tap and shower twin mixer unit.  
Inlet: 1/2" threaded  
Overall width: 222mm  
Overall height: 210mm  
Shower hose length: 1.7 metres



510653

### 510659

Twist deck shower. Hot and cold.  
Inlet: 1/2" threaded  
Handset length: 217mm  
Shower hose length: 2.5 metres



510659

## HOTPOT Showers



510560

### 510560

Cockpit shower with white head and 2 metre white hose. Complete with flush mount socket, 3/8" BSP female.

## SEAFLOW Brass Straight Hose Tails



404225

Part no.	Description
404025	3/8" BSP male - 13 mm hose
404225	3/8" BSP female - 13 mm hose



## Flipper MK4 Self-Priming Hand Lever Galley Pump

The Whale Flipper MK 4 self-priming hand operated manual galley pump is suitable for both salt and fresh water use. A simple hand operated solution for pumping water in the galley. This pump is constructed from high quality materials including a robust moulded base and a non-corrosive swivelling aluminium alloy outlet which is ideal for use between two sinks.

- Maximum suction lift: 3 metres (10ft)
- Whale Flipper MK 4 and MK 3 service kit - 510609

Part no.	Model no.	Flow rate lpm	Hose size mm (inches)
510602	GP0418	7	13 (1/2")



510602



## Slimline Water and Diesel Pumps

For pumping hot and cold fresh water, seawater, antifreeze and diesel. More information in Fuel section, please see page 227.

Part no.	Voltage	Amps	Flow rate LPM
306555	12	4.5	18
306557	24	2.5	18



306555

## Domestic Water Pumps

For pumps to use with your domestic water system, please see Pumps section, pages 222-223.



## Grey Water Tanks and Shower Sumps



For grey water tanks and shower sumps, please see Sanitation section, page 242.



## All Purpose Tanks

Vetus all purpose tanks are suitable for holding fresh water, waste water or diesel fuel for marine applications. These tanks have a seamless construction that will never corrode or leak.

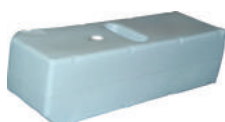
The Vetus tanks featured below are made from high grade linear polythene and suitable for drinking water. They do not come supplied with any fittings, giving you the freedom to fit the connections in any position and in any size you require. All fittings require a 42mm cut out and should be ordered separately. A connection kit should be ordered separately for each tank, together with additional inspection lids if required.



V-ATANK88



V-ATANK110



V-ATANK137



V-ATANK215



V-WTKIT

### V-WTKIT

Kit includes:

- Inspection lid
- 1 x 90° connection RT38B for filling hose, diameter 38mm
- 2 x 90° connection RT16B to water pump, diameter 16mm
- Two mounting straps
- T-joint, for interconnection, 16mm diameter
- All seals and gasket kits needed
- Key
- For the 88, 137, 170 and 215 litre tanks, extra inspection lid kits are available

Note: 13mm pump connection to be ordered separate. See list below.

Fresh water tanks				
Part no.	Capacity litres	Length mm	Width mm	Height mm
V-ATANK042	42	460	350	290
V-ATANK061	61	660	350	290
V-ATANK088	88	800	400	330
V-ATANK110	110	1200	350	290
V-ATANK137	137	1200	400	330
V-ATANK170	170	1100	440	400
V-ATANK215	215	1000	400	600
V-ATANK335	335	1700	700	350
V-ATANK390	390	1400	800	400



V-WTK02



511351

Accessories for Vetus fresh water tanks	
Part no.	Description
V-WTK02	Inspection lid only
V-WTKIT	Inspection lid including flange and gasket
V-RT13B	90° connector 13mm (RT13B)
511351	90° connector 16mm (RT16B)
V-RT19B	90° connector 19mm (RT19B)
511353	90° connector 25mm (RT25B)
511357	90° connector 38mm (RT38B)

Please note: Dimensions can vary +/- 2%

## Fitting Wrench



V-FTSL

### V-FTSL

Used as a fitting key for rigid tank hose connections.



V-AB16B

## Stainless Steel Breather Nipples

Part no.	Description
V-AB16B	Angled for 16mm hose
V-AB19B	Angled for 19mm hose
V-AB19S	Straight for 19mm hose
V-AB25B	Angled for 25mm hose
V-AB38B	Angled for 38mm hose



## Tank Shell Vents

- Made from chromed brass
- Suitable for use as a through bulkhead vent for fuel tanks, fresh water tanks and holding tanks
- Comes complete with a fixing nut and washer in brass



305201



305204

Part no.	Thread BSP male	Thread length mm	Overall length mm
305201	1/2"	72	94
305202	3/4"	75	95.5
305203	1"	77	101
305204	1-1/4"	78.5	104.5
305205	1-1/2"	79.5	112

For more tank vents, please see Ventilation section, page 266.

## Tank Vents

- Made from chromed brass
- Suitable for use as a through bulkhead vent for fuel tanks, fresh water tanks and holding tanks

Part no.	Description
305102	Straight for 16mm hose
305106	90° downwards for 16mm hose
305107	90° upwards 16mm hose



305102



305106



305107



## Dip Level Senders

- Non-metallic float suitable for water, diesel and petrol
  - Order sender resistance to match gauge resistance
  - Suitable for 12V and 24V
- For more Senders and information, see our Gauges section, pages 164-165



704418

American resistance	European resistance	Sender length cm
704416	704517	25
704418	704519	29
704424	704525	35
704426	-	38.5
704434	704535	45
704444	704545	55
704464	704565	75



## Water Resistance Level Senders

- Suitable for waste and fresh water
  - Has a warning for low and high levels
  - Suitable for 12V and 24V
  - Dual resistance, European and American
- For more Senders and information, see our Gauges section, pages 164-165



704628

Part no.	Size mm
704625	250
704630	300
704633	330
704636	360
704657	570



## Water Tank Level Gauges

- Designed to read the level of a fresh water tank
- Available for either American or European resistance senders (but not VDO dip sender)
- Supplied with a 12V bulb
- Hole size 52mm (2")
- Listed below are our standard stock styles, more information available in Gauges section, page 164.



FAR12920  
Euro white

Style	American	European
Euro Black	FAR12830	FAR12831
Euro White	FAR12920	FAR12921
Dress White	FAR13118	FAR13119
Chesapeake White S/S	-	FAR13820



## Water Deck Fillers

- Hot stamped brass body and cap
- With neoprene 'O'-ring seal
- 3 countersunk holes
- 83mm diameter fixing flange



For matching Fuel Fillers, please see page 24



305002

Part no.	Hose mm (inch)	Material
305002	38 (1-1/2")	Polished brass
305003	38 (1-1/2")	Chromed brass
305006	51 (2")	Polished brass
305007	51 (2")	Chromed brass



- Innovative, engineered systems
- Framed units: Horizontal - Vertical - Modular - Semi-modular
- Proven reliability and durability
- Product range features 11 base models
- From 528 litres per day, up to 352,042 litres per day
- 12 or 24 Volt DC, 110, 220, 380 and 440 Volt AC
- Worldwide spares support

## Watermakers

Following the acquisition of Aqua Pro Inc. in 2008, Parker Hannifin have been developing the worldwide distribution network through its Racor division. Aqua Pro is recognised as the leader in onboard marine reverse osmosis products, and their innovative, engineered systems are currently in use on the most advanced Navy ships and premier motor yachts. Marketed under the brand names of Village Marine Tec. and Offshore Marine Labs, Parker Racor now offers an extensive range of desalination products to complement its marine market business through its authorised distributor: ASAP Supplies Ltd.

The product range features 11 base models which have been developed to suit various market requirements and applications. We offer framed units in horizontal and vertical format, space saving semi-modular and modular units. All major components which go into the production of these world renowned units are manufactured in-house at the USA facilities, ensuring unbeatable quality and performance levels.

Parker Village Marine watermakers are specified worldwide on pleasure, commercial and military applications, through their proven reliability and durability. No watermakers are cheap, but less expensive ones may not live up to the performance expectations you demand. If you need water, you need a watermaker, and the last thing you need is one that does not work. Village Marine products are specified in Navy applications, where reliability and performance are paramount. Don't compromise on your water requirements.

## Watermaker Spares

Although Parker Village Marine watermakers are built to provide many hours of trouble free service, they do require regular maintenance to provide maximum performance. Protect your investment and warranty by using only authorised spares. Many Racor Village Marine watermaker chemicals, membranes and elements are universal, and will fit other makes of watermaker.

### Watermaker Replacement Filter Elements



VMT-33-0005



VMT-33-0052

Part no.	Micron	Capacity ft <sup>2</sup>	Length mm	Width mm
VMT-33-0052	5	18	248	114
VMT-33-0053	20	18	248	114
VMT-33-0117	5	10	248	70
VMT-33-0118	20	10	248	70
VMT-33-2100	20	100	620	220

### Carbon Filter Elements



VMT-33-0311



VMT-33-0315

Part no.	Length mm	Diameter mm
VMT-33-0311	248	70
VMT-33-0315	248	114

### Watermaker Chemicals

#### No. 1 Cleaner

Biological cleaner to remove oil, grease, algae and bacteria.

#### No. 2 Cleaner

Acidic cleaner to remove scale off membrane surface.

#### No. 3 Preserver

Preserving chemical to be used for long term storage.

Type	Size 600g
No. 1 Cleaner chemical	VMT-85-0036
No. 2 Cleaner chemical	VMT-85-0037
No. 3 Preservative chemical	VMT-85-0038



VMT-85-0037

### Watermaker Spares

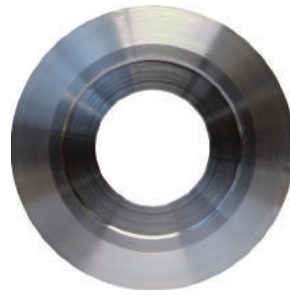
Can't find the Watermaker spares you're after?  
Visit [www.asap-supplies.com](http://www.asap-supplies.com) for more details.



VMT-85-0102  
Watermaker  
filter cleaning kit



VMT-85-0050  
Watermaker  
pump oil



# DRIVETRAIN

41  
41  
43  
38  
42  
39

Grease Cups  
Greasers  
Rope Cutters  
Shaft Bearings  
Shaft Seals & Accessories  
Solid Couplings

## Drive Force Shaft Bearings

Shaft bearings (also known as cutlass bearings) are water lubricated rubber lined bearings for propeller shafts and rudder shafts. They are installed in the stern tube or bearing housing to support the propeller and rudder shaft.

### Brass Shaft Bearings

Water lubricated shaft bearings made from a synthetic nitrile rubber inner with a naval brass shell. These traditional bearings are suitable for most general purpose applications. A new brass shell shaft bearing should have a clearance of 0.15mm per 25mm of shaft (0.006" per 1" of shaft).



809516

Imperial				Imperial			
Part no.	Shaft Diameter inch	Outside Diameter inch	Overall Length inch	Part no.	Shaft Diameter inch	Outside Diameter inch	Overall Length inch
809001	3/4"	1-1/4"	3"	809023	1-1/2"	2"	6"
809004	7/8"	1-3/8"	3-1/2"	809024	1-1/2"	2-3/8"	6"
809006	1"	1-1/4"	4"	809027	1-3/4"	2-3/8"	7"
809007	1"	1-3/8"	4"	809028	1-3/4"	2-5/8"	7"
809008	1"	1-1/2"	4"	809031	2"	2-5/8"	8"
809009	1"	1-5/8"	4"	809032	2"	2-3/4"	8"
809011	1-1/8"	1-1/2"	4-1/2"	809033	2"	3"	8"
809012	1-1/8"	1-5/8"	4-1/2"	809038	2-1/4"	3"	9"
809015	1-1/4"	1-5/8"	5"	809039	2-1/4"	3-1/8"	9"
809016	1-1/4"	1-3/4"	5"	809046	2-1/2"	3-1/4"	10"
809017	1-1/4"	2"	5"	809052	2-3/4"	3-1/2"	11"
809019	1-3/8"	1-7/8"	5-1/2"	809056	3"	3-3/4"	12"
				809057	3"	4"	12"

Metric				Metric shaft, Imperial O.D.			
Part no.	Shaft Diameter mm	Outside Diameter mm	Overall Length mm	Part no.	Shaft Diameter mm	Outside Diameter inch	Overall Length mm
809516	25	40	100	809716	25	1-1/2"	100
809520	30	45	120	809720	30	1-3/4"	120
809524	35	50	140	809724	35	1-7/8"	140
809528	40	55	160	809728	40	2-1/8"	160
809532	45	65	180	809732	45	2-3/8"	180
809534	50	70	200	809734	50	2-5/8"	200
809538	60	80	240				

### GRP Shaft Bearings

Water lubricated shaft bearings made from a synthetic nitrile rubber inner with non-metallic GRP case. GRP is a non-permeable material with very little hygroscopic absorption, providing more stability as they do not swell in water like phenolic shaft bearings. They are also galvanically stable, helping to prevent galvanic corrosion. This makes them ideally suited to aluminium, steel or GRP boats and applications where corrosion may be an issue.



824416

Imperial			
Part no.	Shaft Diameter inch	Outside Diameter inch	Overall Length inch
824408	1"	1-1/2"	4"
824412	1-1/8"	1-5/8"	4-1/2"
824416	1-1/4"	1-3/4"	5"
824417	1-1/4"	2"	5"
824423	1-1/2"	2"	6"
824427	1-3/4"	2-3/8"	7"
824428	1-3/4"	2-5/8"	7"
824431	2"	2-5/8"	8"
824432	2"	2-3/4"	8"
824433	2"	3"	8"
824446	2-1/2"	3-1/4"	10"

Metric			
Part no.	Shaft Diameter mm	Outside Diameter mm	Overall Length mm
824616	25	40	100
824620	30	45	120
824624	35	50	140
824634	50	70	200

Metric shaft, Imperial O.D.			
Part no.	Shaft Diameter mm	Outside Diameter inch	Overall Length mm
824816	25	1-1/2"	100
824820	30	1-3/4"	120

### Shaft Bearings Suitable for Beneteau and Jeanneau

Many of the Beneteau yacht range are fitted with a special propeller shaft bearing, as are Jeanneau and some Dufour boats. Unlike hard cased shaft bearings, the Beneteau and Jeanneau shaft bearing has a rubber sleeve with a collar on one end. There is no outer hard case like traditional shaft bearings.



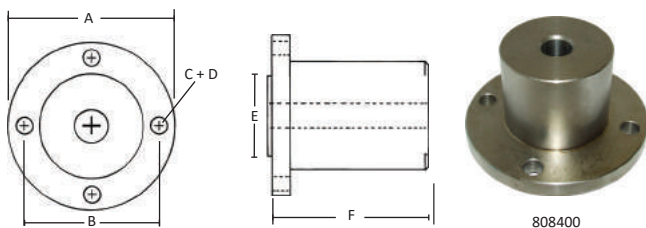
809916

Metric			
Part no.	Shaft diameter mm	Outside diameter mm	Overall length mm
809914	22	29	75
809915	22	36	80
809916	25	36	100
809917	25	40	120
809920	30	40	120
809924	35	54	140
809928	40	54	140



## Solid Half Couplings

These are usually held on to the boat propeller shaft with a suitable roll pin or grub screw and can be machined to take a keyway. All have been pilot bored.

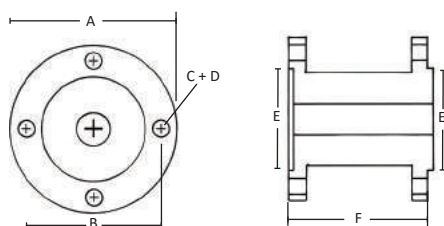


Part no.	Flange Dia A inch	Hole PCD B inch	Qty C	Hole D size	Reg E inch	Length F inch
808400	4"	3-1/4"	4	10mm	2-1/2"	2.16"
808500	5"	4-1/4"	4	7/16"	2-1/2"	2.16"
808502	5"	4-1/4"	4	7/16"	2-1/2"	4.90"
808600	5-3/4"	4-3/4"	6	1/2"	3"	3.52"



## Bobbin Couplings

These are double flanged couplings, used to space out the propeller shaft, or can be used with two R & D flexible couplings to double insulate noise and vibration. A bobbin with two R & D flexible couplings can provide excellent noise and vibration control, at a very reasonable price.



Part no.	Flange Dia A inch	PCD B inch	Qty C	Hole D size	Reg E inch male	Length F inch
808004	4"	3-1/4"	4	10mm	2-1/2"	3.44"
808005	5"	4-1/4"	4	7/16"	2-1/2"	4.90"
808006	5-3/4"	4-3/4"	6	1/2"	3"	5.86"



## Coupling Adaptors

Some gearboxes have an output flange which does not fit the standard R & D shaft coupling range. For some of these, there are adaptors which bolt to the gearbox output flange to allow a standard R & D shaft coupling to fit.



807245



807246

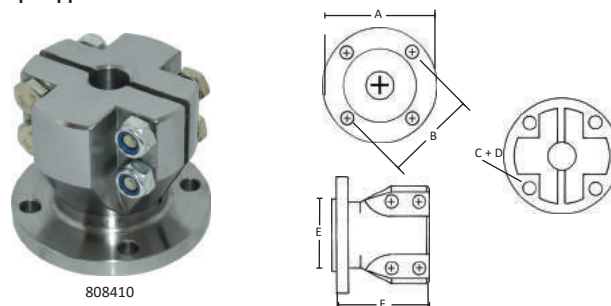
Part no.	Description	Use with coupling
807245	Adapts 4" to 5" coupling	807129
807246	Adapts 5" to 6" coupling	807132



## Split Clamp On Couplings

The shaft end of the coupling slides over the boat propeller shaft and is then clamped into position by the clamp bolts. Larger size couplings are also located with a key and keyway.

All listed shaft couplings are stock items, for our full range of shaft couplings, visit [www.asap-supplies.com](http://www.asap-supplies.com)



4" Shaft Couplings							
Part no.	Flange Dia A inch	Hole PCD B mm / inch	Qty C	Hole D size mm	Reg E (inch) male	Length F inch	Shaft size mm / inch
808410	4"	3-1/4"	4	10	2-1/2"	3.19"	0.75"
808411	4"	3-1/4"	4	10	2-1/2"	3.19"	22mm
808414	4"	3-1/4"	4	10	2-1/2"	3.19"	25mm
808416	4"	3-1/4"	4	10	2-1/2"	3.19"	1"
808417	4"	3-1/4"	4	10	2-1/2"	3.19"	28mm
808418	4"	3-1/4"	4	10	2-1/2"	3.19"	30mm
808419	4"	3-1/4"	4	10	2-1/2"	3.19"	35mm
808420	4"	3-1/4"	4	10	2-1/2"	3.19"	1.25"
808422	4"	3-1/4"	4	10	2-1/2"	3.19"	1.5"
808430	4"	78mm	4	10	50mm	3.19"	0.75"
808431	4"	78mm	4	10	50mm	3.19"	22mm
808434	4"	78mm	4	10	50mm	3.19"	25mm
808436	4"	78mm	4	10	50mm	3.19"	1"
808438	4"	78mm	4	10	50mm	3.19"	30mm
808440	4"	78mm	4	10	50mm	3.19"	1.25"
808454	4"	80mm	4	10	60mm*	3.28"	25mm
808456	4"	80mm	4	10	60mm*	3.28"	1"

\* Female

5" Shaft Couplings							
Part no.	Flange Dia A inch	Hole PCD B inch	Qty C	Hole D size inch	Reg E inch male	Length F inch	Shaft size mm / inch
808516	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	1"
808518	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	30mm
808519	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	35mm
808520	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	1.25"
808522	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	1.50"
808523	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	40mm
808524	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	1.75"
808526	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	2"
808527	5"	4-1/4"	4	7/16"	2-1/2"	3-3/4"	50mm

6" Shaft Couplings							
Part no.	Flange Dia A inch	Hole PCD B inch	Qty C	Hole D Size inch	Reg E inch male	Length F inch	Shaft size mm / inch
808622	5-3/4"	4-3/4"	6	1/2"	3"	5-1/2"	1.5"
808623	5-3/4"	4-3/4"	6	1/2"	3"	5-1/2"	40mm
808624	5-3/4"	4-3/4"	6	1/2"	3"	5-1/2"	1.75"
808626	5-3/4"	4-3/4"	6	1/2"	3"	5-1/2"	2"



## Flexible Shaft Couplings

- Reduce noise and vibration
- Simple to install
- Cost effective
- Aids engine alignment and allows easy checking
- 'Fail safe' design
- Designed to absorb thrust
- Contoured resilient polyester elastomer disc
- Supplied complete with bolts and nuts (excluding 807121 and 807160)
- Max to max gap difference = 0.010"
- Earth bonding system available

### R & D Flexible Shaft Coupling Basic Selection Guide

Gearbox	Application	Part no.
BorgWarner	500, 1000 + 71C 4"	807114, 807101, 807104
	71C 5"	807109
	72C 5"	807109, 807129, 807144
	5000	807109, 807129
	73C + 7000	807103, 807125, 807132
Bukh	-	807128, 807113
Enfield & Sonic	-	807121 (no bolts)
Hurth*	35	807114, 807101
	50, 100, 125, 150, 250	807114, 807101, 807104
	360, 450 + 630	807109, 807129
	800	807106, 807126, 807133
Lister	-	807003
Newage PRM	Delta 150, 80, 120	807114, 807101, 807104
	100, 101, 140, 160, 260	807109
	175, 265, 500, 750, 310	807103, 807125
	401, 402, 601 3:1, 1000 3:1	807103, 807125, 807132
	601, 1000 (4:1 only)	807118, 807140
Paragon	4"	807105
Technodrive	Model TM 4"	807114, 807101, 807104
TMP	5" Flange	807109, 807144
	Replaces Silentbloc 50 coupling	807160 (no bolts)

## How To Select Your Flexible R & D Coupling

You will need the following details:

- Engine horse power and engine speed
- Gearbox type and reduction ratio
- Gearbox flange details: Diameter of flange, diameter of register, pitch circle diameter (The pitch circle diameter is the distance between the centre of the hole at 12 o'clock position to the centre of the hole at the 6 o'clock position) of fixing holes, size and quantity of holes. Use the following tables for more detail

### Example:

Ford 150 HP @ 2500 RPM

PRM 750 2:1 reduction gearbox

6" flange, 3" register, 4.75" PCD, 6 holes, 0.50" diameter

To calculate the power of the coupling required:

(HP of engine x reduction of gearbox x 100) divided by revs = HP per 100 RPM  
(150 x 2 x 100) divided by 2500 = 12 HP per 100 RPM

Therefore you would need an 807103 R & D flexible shaft coupling.

Gearbox	Application	Part no.
	MG502 (with adaptor 807248)	807103, 807125, 807132
	MG5050, MG5061	807106, 807126, 807133
	MG506, MG507	807106, 807126, 807133, 807117
	MG5081, MG5091	807117
	MG509, 510, 511	807117
Volvo	MS and RB	807107
	MS2	807119, 807120
	MS3, MS4	807109
	MS5	807109, 807129
Yanmar	4"	807102, 807143
	5"	807112
	130mm	807137
ZF	IRM41, IRM50	807109, 807129
	IRM220A (with adaptor 807247)	807103, 807125, 807132
	IRM301	807106, 807126, 807133
	Twin Disc 502 (with adaptor 807248)	807103, 807125, 807132

\*Where a Hurth gearbox is fitted behind a Volvo Penta engine, the coupling may have a 60mm register and 4 bolts on 80mm PCD.



## Shaft Couplings



807121



807160



807113



807125

Part no.	Gearbox Flange Dimensions									Flexible Coupling Details						Earth bonding strip
	Diameter		No. of bolts	Bolt hole diameter		Bolt PCD		Register diameter		Maximum diameter		Length		Bolt diameter	Capacity (HP per 100 RPM)	
mm	Inch	mm		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch				
Shaft Couplings To Suit 2 Bolt Flange																
807121	101.6	4"	2	11.2	0.44"	76	3"	-	-	108	4.25"	41.7	1.64"	7/16" UNF	2.5	807736
807160	112.8	4.44"	2	11.2	0.44"	81	3.19"	-	-	112.8	4.44"	38.1	1.5"	7/16" UNF	3.25	-
Shaft Couplings To Suit 4 Bolt Flange																
807113	90	3.54"	4	8.1	0.32"	74.5	2.93"	47	1.85"	114.3	4.50"	32.5	1.28"	M8	3	807737
807128	90	3.54"	4	8.1	0.32"	74.5	2.93"	47	1.85"	114.3	4.50"	32.5	1.28"	M8	5	807737
807102	101.6	4"	4	10	0.39"	78	3.07"	50	1.97"	114.3	4.50"	32.5	1.28"	M10	3	807737
807143	101.6	4"	4	10	0.39"	78	3.07"	50	1.97"	114.3	4.50"	32.5	1.28"	M10	5	807737
807107	101.6	4"	4	10	0.39"	80	3.15"	60	2.36"	114.3	4.50"	43.7	1.72"	M10	3	807737
807119	101.6	4"	4	10	0.39"	80	3.15"	60	2.36"	114.3	4.50"	32.5	1.28"	M10	3	807737
807120	101.6	4"	4	10	0.39"	80	3.15"	60	2.36"	114.3	4.50"	32.5	1.28"	M10	5	807737
807101	101.6	4"	4	10	0.39"	82.55	3.25"	63.5	2.5"	114.3	4.50"	32.5	1.28"	M10	5	807737
807104	101.6	4"	4	10	0.39"	82.55	3.25"	63.5	2.5"	114.3	4.50"	34.3	1.35"	3/8" UNF	7	807738
807105	101.6	4"	4	9.7	0.38"	82.55	3.25"	66.7	2.625"	114.3	4.50"	34.5	1.35"	3/8" UNF	7	807738
807114	101.6	4"	4	10	0.39"	82.55	3.25"	63.5	2.5"	114.3	4.50"	32.5	1.28"	M10	3	807737
807112	127	5"	4	10	0.39"	100	3.93"	65	2.56"	143	5.63"	45	1.77"	M10	10	807739
807109	127	5"	4	11.2	0.44"	107.9	4.25"	63.5	2.5"	143	5.63"	45	1.77"	7/16" UNF	13	807739
807129	127	5"	4	11.2	0.44"	107.9	4.25"	63.5	2.5"	143	5.63"	52.4	2.06"	7/16" UNF	20	807741
807144	127	5"	4	11.2	0.44"	107.9	4.25"	63.5	2.5"	143	5.6"	45	1.77"	7/16" UNF	8	807739
807137	130	5.12"	4	12.3	0.48"	107.9	4.25"	63.5	2.5"	143	5.63"	51.1	2.01"	7/16" UNF	13	807739

## Shaft Couplings

Part no.	Gearbox Flange Dimensions									Flexible Coupling Details						Earth bonding strip
	Diameter		No. of bolts	Bolt hole diameter		Bolt PCD		Register diameter		Maximum diameter		Length		Bolt diameter	Capacity (HP per 100 RPM)	
mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch			
Shaft Couplings To Suit 6 Bolt Flange																
807003	120.7	4.75"	6	11.2	0.44"	98.5	3.875"	63.5	2.5"	150.9	5.94"	69.9	2.75"	7/16" UNF	10	807739
807103	146	5.75"	6	12.7	0.50"	120.6	4.75"	76.2	3"	152.4	6"	47.5	1.87"	1/2" UNF	20	807739
807106	146	5.75"	6	16	0.63"	120.6	4.75"	76.2	3"	152.4	6"	47.5	1.87"	1/2" UNF	20	807739
807125	146	5.75"	6	12.7	0.50"	120.6	4.75"	76.2	3"	152.4	6"	49.8	1.96"	1/2" UNF	28	807740
807126	146	5.75"	6	16	0.63"	120.6	4.75"	76.2	3"	152.4	6"	49.8	1.96"	1/2" UNF	28	807740
807132	146	5.75"	6	12.7	0.50"	120.6	4.75"	76.2	3"	152.4	6"	55.4	2.18"	1/2" UNF	37	807742
807133	146	5.75"	6	16	0.63"	120.6	4.75"	76.2	3"	152.4	6"	55.4	2.18"	1/2" UNF	37	807742
807117	184.2	7.25"	6	19	0.75"	152.4	6"	95.25	3.75"	190.5	7.50"	60.7	2.39"	5/8" UNF	40	807740
807118	184.2	7.25"	6	16	0.625"	152.4	6"	95.25	3.75"	190.5	7.50"	60.7	2.39"	5/8" UNF	40	807740
807140	184.2	7.25"	6	19	0.75"	152.4	6"	95.25	3.75"	190.5	7.50"	63.3	2.49"	5/8" UNF	55	807741



807119



807133



For extra isolation, use two flexible couplings in conjunction with a coupling bobbin. See page 39.  
To convert imperial into metric, multiply by 25.4

## Greasers and Gland Packing

Good quality packing and greasing is often all that stops your boat from filling up with water. If you don't have a maintenance free shaft seal (such as a PSS seal, see page 42), then you need to ensure that inspection, lubrication and replacement of the shaft gland packing are on your regular maintenance sheet.

### Drive Force Remote Greasers

Part no.	Capacity litres	Thread BSP	Material	Diameter	Height
807200	0.15	1/8"	Brass	50mm	180mm
807203	1	1 x 3/8"FM with 1 x 1/4" adaptor	Steel body, bronze head and base	90mm	400mm
807202	2	2 x 3/8"FM with 2 x 1/4" adaptors	Steel body, bronze head and base	110mm	440mm



807201  
Tube kit for 807200  
3 metre 5/16" tube and fittings



807200



807202

### Drive Force Stauffer Grease Cups

Drive Force brass Stauffer greaser cups are suitable for providing a steady supply of lubrication to stern tubes, rudder bearings and gland packing applications. It is designed to be screwed directly into the stern tube.

Part no.	BSP	Diameter	Height
807250	1/8"	18mm	29mm
807251	1/8"	33mm	40mm
807253	1/4"	40mm	42mm



807251



### Stern Tube Grease

Morris Lubricants K99 water resistant grease is suitable for boat stern tubes, rudder bearings and water pump applications using packed bearings.

Part no.	Description
807620	500g
807623	3kg



807620

### Drive Force Gland Packing and Removal Tools

Drive Force gland packing rope is ideal for packing out shaft bearings and glands. Most glands or bearings require three rings of gland packing, so a one metre length is enough to provide three rings for shafts up to 4" (100mm) in diameter. Two types are available:

**PTFE impregnated flax 'Sturtnite' packing** is ideal for boat prop shaft applications, as the PTFE makes it 'super slippery' while the flax material reduces wear on the shaft when compared to graphite cotton or asbestos rope gland packing.

**Graphite cotton gland packing** is a traditional replacement for the old graphite asbestos packing rope. The cotton material is impregnated with graphite and provides a good long term seal solution on most applications.

Both flax PTFE gland packing and graphite cotton gland packing must be regularly lubricated with a quality water resistant grease, such as Drive Force 807680 and 807683 or Morris grease 807620 and 807623 (see above).

Diameter mm (inch)	PTFE Flax 'Sturtnite'		Graphited cotton		Removal tool
	1 metre	8 metre roll	1 metre	8 metre roll	
5 (3/16")	807521	807520	807421	807420	807381
6.5 (1/4")	807531	807530	807431	807430	807381
8 (5/16")	807541	807540	807441	807440	807381
10 (3/8")	807551	807550	807451	807450	807383
13 (1/2")	807561	807560	807461	807460	807383
16 (5/8")	807571	807570	807471	807470	807385
19 (3/4")	-	807580	-	807480	807385



807385



807550  
PTFE flax 'Sturtnite'



807450  
Graphite cotton



## PSS Shaft Seals For Propeller Shafts

### Features and benefits:

- High density carbon graphite flange
- Reinforced bellows stainless steel rotor
- Dripless operation
- Maintenance free
- 3 year warranty
- Eliminates shaft wear
- No mess or corrosion
- Certified by Bureau Veritas, ABS and R.I.N.A.
- Over 100,000 in successful operation
- Suitable for leisure and commercial craft
- Unaffected by engine movement or vibration
- Metric and imperial sizes for shafts from 22-90mm and 3/4" to 3-1/4"
- The carbon / graphite flanges and rotor should never need replacing under normal operating conditions

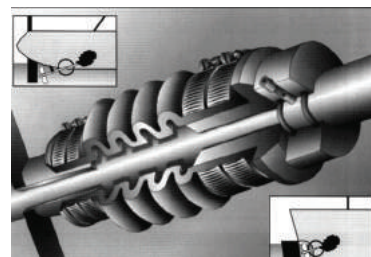


808352-3

Part no.	Imperial shaft diameter inch	Stern tube diameter inch	Compressed length
808303-1	1"	1-1/4"	159mm
808303-2	1"	1-1/2"	159mm
808303-3	1"	1-3/4"	159mm
808303-4	1"	2"	159mm
808304-3	1-1/8"	1-3/4"	159mm
808305-3	1-1/4"	1-3/4"	165mm
808305-4	1-1/4"	2"	165mm
808305-5	1-1/4"	2-1/4"	165mm
808305-6	1-1/4"	2-1/2"	165mm
808306-6	1-3/8"	2-1/2"	165mm
808307-4	1-1/2"	2"	207mm
808307-5	1-1/2"	2-1/4"	207mm
808307-6	1-1/2"	2-1/2"	207mm
808307-7	1-1/2"	2-3/4"	207mm
808308-6	1-3/4"	2-1/2"	207mm
808308-7	1-3/4"	2-3/4"	207mm
808308-8	1-3/4"	3"	207mm
808309-7	2"	2-3/4"	207mm
808309-8	2"	3"	208mm

Part no.	Metric shaft diameter	Stern tube diameter inch	Compressed length
808352-2	25mm	1-1/2"	159mm
808352-3	25mm	1-3/4"	159mm
808354-3	30mm	1-3/4"	159mm
808354-4	30mm	2"	159mm
808354-5	30mm	2-1/4"	159mm
808357-5	40mm	2-1/4"	207mm
808357-6	40mm	2-1/2"	208mm
808359-8	50mm	3"	207mm

All shaft seals are stock items, our full range is available at [www.asap-supplies.com](http://www.asap-supplies.com) or contact our sales team.



## Replacement Volvo Penta Shaft Seals

Kits for Volvo Penta are supplied with a flexible stuffing box, a clamp to secure to the stern tube and a universal sleeve which fits around and protects the prop shaft. Some lubricating grease is also supplied to ensure performance and reduce wear.



ORB 91254

Part no.	Replacement OEM part number	Shaft diameter	Stern tube diameter
ORB 91254	828254	25mm	43mm
ORB 91422	828422	30mm	49mm
ORB 91526	828526	35mm	55mm
ORB 91527	828527	40mm	60mm
ORB 91722	3819722	45mm	65mm
ORB 91723	3819723	50mm	70mm
ORB 91872-1	3819724	1"	43mm
ORB 91874-1	3819725	1-1/4"	52mm
ORB 91876-1	3819726	1-1/2"	58mm
ORB 91881-1	3819728	2"	70mm



## PSS Shaft Seal Repair Kit

Maintenance kit for PSS shaft seals, including two O-rings, five set screws and an allen key to secure the screws in place.



808378

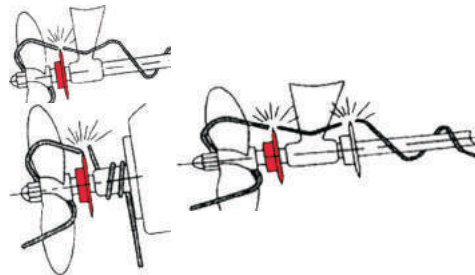
Part no.	Seal size (inch)	Shaft size mm
808373	1"	25
808375	1-1/4"	32
808376	1-3/8"	35
808377	1-1/2"	38
808378	1-3/4"	45
808379	2"	50
808384	-	30
808387	-	40

## prop protector Rope Cutters

The shaft driven rope cutter rotates with the shaft, which in turn instantly cuts any rope, weed or debris picked up or snagged by the propeller.

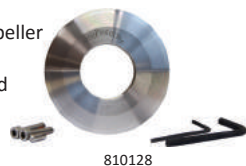
- Simple to fit
- Made in the UK
- Made from 316 stainless steel
- Suitable for all types of working or leisure vessels
- More than 20,000 fitted worldwide

All listed rope cutters are stock items, our full range and more informations is available at [www.asap-supplies.com](http://www.asap-supplies.com)



### Clamp On

- Supplied in two halves
- Easier to fit as no need to remove propeller
- Sizes up to 2-1/4" / 55mm shafts
- All supplied with allen keys, fittings and instructions
- Secure with grub screw
- No moving parts to service or fail

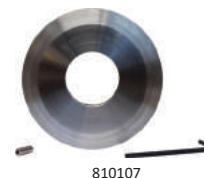


Clamp On - Imperial				
Part no.	Shaft size inch	Blade diameter inch	Unit width inch	Minimum gap inch
810121	3/4"	3.15"	0.67"	0.9"
810122	7/8"	3.15"	0.67"	0.9"
810123	1"	3.15"	0.67"	0.9"
810124	1-1/8"	3.55"	0.67"	0.9"
810125	1-1/4"	3.55"	0.67"	0.9"
810126	1-3/8"	3.74"	0.67"	0.9"
810127	1-1/2"	3.74"	0.67"	0.9"
810128	1-5/8"	3.74"	0.67"	0.9"
810129	1-3/4"	4.13"	0.67"	0.9"
810130	2"	4.13"	0.67"	0.9"
810131	2-1/4"	4.57"	0.87"	1.26"
810132	2-1/2"	4.57"	0.87"	1.26"

Clamp On - Metric				
Part no.	Shaft size mm	Blade diameter mm	Unit width mm	Minimum gap mm
810173	25	80	17	23
810175	30	85	17	23
810176	35	95	17	23
810177	40	95	17	23
810178	45	105	17	23
810179	50	105	17	23
810180	55	116	22	32

### Slide On

- A single piece unit
- Requires removal of the propeller to install
- Sizes up to 2" / 45mm shafts
- All supplied with allen keys, fittings and instructions
- Secure with grub screw
- No moving parts to service or fail



Slide On - Imperial				
Part no.	Shaft size inch	Blade diameter inch	Unit width inch	Minimum gap inch
810103	1"	3.15"	0.47"	0.7"
810104	1-1/8"	3.15"	0.47"	0.7"
810105	1-1/4"	3.15"	0.47"	0.7"
810106	1-3/8"	3.94"	0.47"	0.7"
810107	1-1/2"	3.94"	0.47"	0.7"
810108	1-1/4"	3.15"	0.47"	0.7"
810109	1-3/4"	4.72"	0.47"	0.7"
810110	2"	4.72"	0.47"	0.7"

Slide On - Metric				
Part no.	Shaft size mm	Blade diameter mm	Unit width mm	Minimum gap mm
810153	25	80	12	18
810155	30	80	12	18
810156	35	100	12	18
810157	40	100	12	18
810158	45	120	12	18



*Minimum gap = The minimum required to fit Prop Protector, as it needs to be sufficient to allow space for water to circulate in the shaft bearing.*

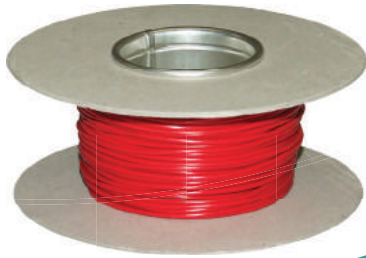
## MGDUFF Anodes and Eliminators For Propeller Shafts

Protect your stern equipment by using anodes. As a general rule, we supply zinc anodes for salt water, magnesium anodes for fresh water and aluminium anodes for brackish water. However, you should ensure you select the correct anodes for your hull and location. For propeller shaft and stern gear applications we offer:

- Shaft anodes
- Shaft collar anodes
- Propeller nut anodes
- Max prop anodes
- Prop nut anodes
- Electro eliminator brush sets

See Anode section, page 2.





# ELECTRICAL

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## W05 Windscreen Wiper Kits

- Compact wiper motor, suitable for small to medium sized boats
- Strong motor housed in a white powder lacquered aluminium cover
- Stainless steel 304 shaft and mounting plate
- Adjustable sweep angle of 90° or 110°
- Left or right self-parking options (standard setting is 90° left)
- Produces 5Nm of torque and is recommended for wiper arms and blades up to 355mm long.
- A black stainless steel standard wiper arm is supplied which is adjustable in length between 280mm and 355mm
- The arm features a J-hook end connection which fits the supplied wiper blade
- Blade features a zinc plated steel backer with a natural rubber profile and is 280mm in length

Part no.	Voltage	Fuse size	Motor dimensions l x w x d mm	Maximum bulkhead thickness mm	Spindle shaft connection diameter mm	Replacement arm	Replacement blade
717301	12V	3A	82 x 58 x 82	25	6	717608	717660
717305	24V	3A	82 x 58 x 82	25	6	717608	717660



## W12 Waterproof Windscreen Wiper Motor

- Strong motor housed in a white powder lacquered aluminium cover
- Supplied with a separate insulated ground (earth) cable making it suitable for use in metal, GRP and wooden boats
- Waterproof (IP65)
- CE approved and EMC protected
- Stainless steel 304 shaft
- Has an adjustable stepless sweep angle between 45° and 110°
- Left or right self-parking options (standard setting is 45° right)
- Two speed settings at 35 sweeps per minute and 55 sweeps per minute
- Produces 12Nm of torque and is recommended for wiper arms up to 610mm and blades up to 560mm long
- Wiper arms can be standard, adjustable tip or pantograph
- Roca W12 wiper series is a replacement for the W10 range
- 717320 - mounting bracket to fit W12 Wiper Motor to W10 screw holes

12V / 5A	24V / 3A	Motor dimensions l x w x d mm	Maximum bulkhead thickness mm	Spindle shaft connection diameter mm
717321	717325	170 x 100 x 59	16	13.8 (72 splines)
717322	717326	170 x 100 x 59	42	13.8 (72 splines)
717323	717327	170 x 100 x 59	68	13.8 (72 splines)



## W12 Wiper Blades

- Wiper blades made from zinc plated steel and anti-glare painting
- Natural rubber profile with stainless steel backer
- Includes 3 adaptors to fit wiper arms with straight 7mm connection, J-hook connection and 16mm saddle connection
- Fits all W12 Roca arms



717666

Part no.	Size mm
717662	330
717663	355
717664	380
717665	405
717666	430
717667	455
717668	480
717669	508
717670	533
717671	560



## W12 Standard Wiper Arms

- Adjustable length
- Black painted stainless steel
- J-hook connection, fits most wiper blades on the market

Part no.	Size mm
717611	319-458
717612	474-612



717611



## W12 Pantograph Wiper Arms

- Adjustable length
- Polished or black painted stainless steel
- J-hook connection, fits most wiper blades on the market

Polished	Black	Size mm
717620	717624	324-460
717621	717625	454-591



717621



## W12 Adjustable Tip Wiper Arms

- Adjustable length
- Polished or black painted stainless steel
- Adjustable tip: + or - 40 degrees
- J-hook connection, fits most wiper blades on the market

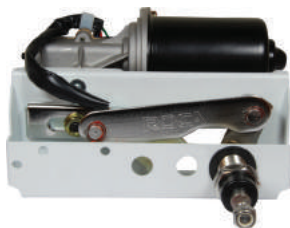
Polished	Black	Size mm
717617	717615	324-460
717618	717614	454-591



717618



## W25 Heavy Duty Windscreen Wiper Motors



717331

- Heavy duty, strong motor
- Supplied with a separate insulated ground (earth) cable making it suitable for use in metal, GRP and wooden boats in the toughest weather conditions
- CE approved and EMC protected
- White powder lacquered stainless steel mounting plate
- Watertight stainless steel 304 shaft
- Includes an internal thermostatswitch to cut the power if the motor gets too hot
- Adjustable sweep angle between 45° and 110°
- Left or right self-parking options (standard setting is 45° left)
- Two speed settings at 35 sweeps per minute and 55 sweeps per minute
- Produces 25Nm of torque and is recommended for wiper arms and blades up to 750mm long
- Wiper arms for the W25 series can be adjustable tip or pantograph

12V / 25A	24V / 15A	Motor dimensions l x w x d mm	Maximum bulkhead thickness mm	Spindle shaft connection diameter mm
717331	717335	194 x 115 x 104	28	13.8 hex nut
717332	717336	194 x 115 x 104	53	13.8 hex nut



## W25 and W38 Pantograph Wiper Arms



717640

- Stainless steel pantograph wiper arm
- Fits single drive motors
- Polished or black painted stainless steel
- Saddle width 16mm

Polished	Black	Size mm
717640	717642	470-750



## W25 and W38 Wiper Blades

- Wiper blade made from stainless steel and black anti-glare paint
- Natural rubber profile
- Designed to evenly distribute the load from the arm with a series of linkages in the blade, ensuring maximum screen clearance
- Fits Roca arms with saddle width 16mm (W25 and W38)



717681

Part no.	Size mm
717680	559
717681	610
717682	710
717683	760



## W25 and W38 Adjustable Tip Wiper Arms



717645

- All stainless steel wiper arm with adjustable tip
- Polished or black painted stainless steel
- Adjustable tip: + or - 40°
- Saddle width 16mm

Polished	Black	Size mm
717645	717647	470-750



## W38 Heavy Duty Dual Drive Windscreen Wiper Motors



717341

- Heavy duty wiper motor
- Supplied with a separate insulated ground (earth) cable making it suitable for use in metal, GRP and wooden boats in the toughest weather conditions
- CE approved and EMC protected
- Strong motor with a white powder lacquered stainless steel mounting plate
- Watertight stainless steel 304 shaft
- Includes an internal thermo-switch to cut the power if the motor gets too hot
- Adjustable sweep angle between 45° and 110°
- Left or right self-parking options (standard setting is 45° left)
- Two speed settings at 35 sweeps per minute and 55 sweeps per minute
- Produces 38Nm of torque and is recommended for wiper arms and blades up to 900mm long
- Wiper arms for the W38 series can be adjustable tip (using one shaft) or pantograph (using both shafts)

12V / 35A	24V / 20A	Motor dimensions l x w x d mm	Maximum bulkhead thickness mm	Spindle shaft connection diameter mm
717341	717345	210 x 110 x 125	28	13.8 hex nut
717342	717346	210 x 110 x 125	53	13.8 hex nut
717343	717347	210 x 110 x 125	78	13.8 hex nut



## W38 Wiper Blades

- Suitable for marine and automotive applications
- Has a 16mm saddle
- Wiper blade made from stainless steel and anti-glare paint
- Natural rubber profile



717686

Part no.	Size mm
717684	810
717685	838
717686	863
717687	890



## W38 Pantograph Wiper Arms

- All stainless steel wiper arm with pantograph arm
- Fits Roca W38 system only, adjustable length
- Polished or black painted stainless steel
- Saddle width 16mm



717634

Polished	Black	Size mm
717634	717636	630-900



Pantograph



## Manual Windscreen Wiper Kit

717001

This simple hand operated manual windscreen wiper consists of a through bulkhead pivot, wiper operator handle, window wiper arm and wiper blade.

The window wiper arm is adjustable by 228 - 355mm and features a 5mm bayonet fitting. Supplied with a 355mm wiper blade for flat screens.



717001



## Wiper Control Boxes

- Very simple to install with all wiring connections on one side of the panel
- The switch performs different functions depending on how it is pressed
- Ground earth cable included to isolate the control box
- A 1 second press of the switch operates the screen wash, which will be attached to the windscreen wiper arms

1 motor

- Operates one wiper motor as well as the screen washer system using an illuminated carling switch
- Made from black plastic

Part no.	Voltage	Height mm	Width mm	Depth mm	Applications
717481	12V & 24V	33	99	59	Roca W10, W12, W25, W38 and W50 Wiper Motors



717481

3 motor

- Can operate up to 3 wiper motors as well as the screen washer system all from one illuminated rocker switch
- Wiper motors can be run at an interval or at their slow and fast speed settings
- Made from white plastic ABS

Part no.	Voltage	Height mm	Width mm	Applications
717485	12V & 24V	108	192	Roca W10, W12, W25, W38 and W50 Wiper Motors



717485



## Windscreen Wiper Switch

- Features an "OFF-ON-ON" configuration which allows both speed settings of the wiper motors to be used
- Made from plastic and watertight to IP68
- Please order with 717499 switch body cover

Part no.	For wiper motors	Voltage	Amps	Cut out mm
717492	W12	12 / 24V	20A	36.8 x 21.1
717495	W25 and W38	12 / 24V	10A	36.8 x 21.1



717492



717495

717499

Switch body cover used to operate the Roca range of windscreen wiper systems. This black plastic cover features an image of windscreen wipers to easily identify the switch.



717499



## Windscreen Wiper Switches

Rocker switch, cover for switch supplied separately (711756).

Part no.	Switch functions
711741	Off / On
711743	On / Off / On



711743



## Rocker Switch Cover - Wiper

711756

Rocker switch cover (wiper), soft-touch series rocker switch cover only for use with ASAP rocker switch bodies. These rocker covers are polycarbonate coated with black polyurethane creating a semi-rigid anti-skid surface.



711756



## Windscreen Wiper Switch

711437

This wiper switch has 3 positions and is suitable for operating two speed wiper motors with self park.

- Suitable for both 12V and 24V systems (as long as the switching current does not exceed 20 amps)
- Current: 15A
- Central knob diameter: 24mm
- Switch body: 30mm x 30mm x 30mm
- Fitting depth: 40mm (with wires attached)
- Cut out: 12mm



711437



## Windscreen Washing Kits



717451

- Includes tank, pump, mounting bracket and T piece connector
- Suitable for use with any Roca wiper motor or any other system being used
- Mounted underneath the bulkhead and requires a through bulkhead fitting and a spray kit to deliver fluid to the screen
- Washer tank is constructed from plastic and includes a pop up lid on the top to fill up with screen wash
- Pump is mounted at the bottom of the tank
- Available in 12V and 24V options
- Can connect to a T piece to distribute fluid to two separate arms, which is where the spray kit is mounted
- Supplied with a stainless steel mounting bracket to secure the tank to a suitable surface

Part no.	Tank capacity litres	Pump voltage	Tank height mm	Tank width mm	Tank depth mm
717451	2.5	12V	220	125	100
717452	2.5	24V	220	125	100

The windscreen washer pump is mounted at the bottom of the screen washer tank; please add 50mm to the depth to allow for this.



717402



## Small Windscreen Washing Kits

These screen washing kits are supplied as a complete kit which includes:

- 1 x Polythene washer fluid tank
- 1 x 12V screen washer pump
- 1 x Tank mounting bracket
- 1 x Length of washer tubing
- 2 x Screen wash sprayer nozzles / jets
- 1 x Switch

Part no.	Tank capacity litres	Pump voltage	Tank height mm	Tank width mm	Tank depth mm
717402	2.5	12V	220	125	100

The windscreen washer pump is mounted at the bottom of the screen washer tank; please add 50mm to the depth to allow for this.



717434



## Large Windscreen Washer Kits

ASAP Electrical large windscreen washer kits with plastic washer tank and pump. The windscreen washer pumps are mounted at the bottom of the screen washer tank.

Part no.	Tank capacity litres	Number of pumps	Voltage of pumps	Tank height mm	Tank width mm	Tank length mm
717422	9.7	2	12V	300	13	320
717424	9.7	2	24V	300	13	320
717434	9.7	3	24V	300	13	320



717410

- 717410**  
PVC hose for screen washer fluid.
- 5mm I.D.
  - 24 metre coil



717411



717412



717413



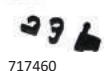
717414

### Screen Washer Hose and Connectors

Part no.	Description
717411	T piece
717412	Bulkhead connector
717413	Check valve
717414	Spray head



717462



717460

- 717462**  
Bulkhead fitting for washer systems



## Spray Kits For Arms

- Roca windscreen washer system spray nozzle kit designed for mounting on the wiper arm
- Plastic nozzle is supplied with two adaptors
- Supplied with a 1100mm length of rubber hose to transport fluid between the various components of the windscreen washer system

Part no.	Suitable for Roca systems
717460	W10 and W12
717461	W25 and W38



## Windscreen Wash Solenoids

Roca pressure solenoid, allows the use of fresh water from your water pressure system to be used for screen washing.



717472

Part no.	Voltage	Pressure rating PSI	Thread BSP Female	Overall height mm	Overall width mm	Overall depth mm
717472	12V	120	1/4"	67	38	31
717474	24V	120	1/4"	67	38	31

## Boat Antennas and Aerials

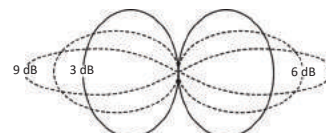
The aerials listed in this section are all from the Shakespeare V-Tronix and Classic ranges. We only offer Shakespeare antennas because of their high quality and reliability.

**Choosing the right antenna** - When choosing an antenna, height is paramount in getting the greatest range and this is the reason the antenna should be placed as high as possible on the boat.

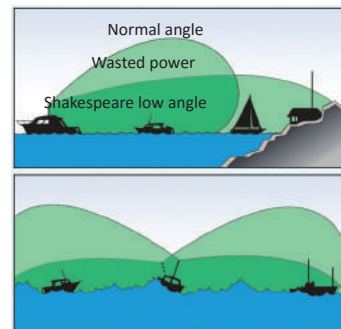
**Sailboats:** As a general rule, sailboats have a 3'-5' antenna mounted on the masthead.

**Powerboats:** Most power boats from 16'-25' in length use a standard 8' antenna, while bigger vessels have the option of larger antennas with more gain.

**What is Gain?** - This is a rating stated in decibels (dB). Generally, the higher the gain, the greater the communicating range. However, keep in mind that the higher the gain, the more compressed the beam width becomes (see illustration). A narrow beam can cause fading in rolling seas.



Typical Radiation Patterns



Shakespeare combines a normal beam width with a unique low angle of radiation to minimize signal fading in rough or rolling seas.



Sailing boats



RIB's



Motorboats



Fishing boats



Commercial



### Short Helical VHF Antennas (0.15m - 0.31m)

- Designed to be ultra lightweight and still withstand the most rugged punishment
- Suitable for race boats or for sailors who want the lowest possible windage
- Does not require a ground plane
- Integral aluminium fitting
- V.S.W.R: 1.5:1 at resonance
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716524	HA156C	156-162	0.15	3	20	PL-259

- All vulnerable electrical parts are sealed in epoxy resin to resist water ingress
- Low profile, low windage, unobtrusive antenna, which does not require a ground plane
- 180mm aluminium bracket
- V.S.W.R: 1.5:1 at resonance
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716520	MD53	156-162	0.31	3	20	PL-259



### Emergency VHF Antenna (0.25m)

- Emergency VHF antenna for instant set up if your main antenna becomes broken or disabled
- It is sealed in waterproof container and can be easily stowed away
- Fitted with a rubber suction cap for quick mounting on any smooth, horizontal surface
- V.S.W.R: Dependant on location
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	Cable length metre	Plug type
716587	5911	156-162	0.25	1	3.6	PL-259



### Stainless Steel VHF Antenna (0.90m)

Shakespeare MD20 stainless steel whip antenna

- All vulnerable electrical parts are sealed in epoxy resin to resist water ingress
- 180mm nylon cranked bracket for masthead mounting
- Lightweight
- Low windage
- V.S.W.R: 15:1
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716512	MD20	156-162	0.90	3	20	PL-259



716524



716520



716587



716512



## Stainless Steel VHF Antennas (0.48m - 0.90m)

- Low windage stainless steel whip
- Features solderless connector system for easy installation and end-of-season dismounting
- V.S.W.R: <1.5:1 at resonance
- 2 year limited warranty

For more information on each antenna, please visit [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716530	YWX	156-162	0.90	3	20	PL-259
716514*	YHK	156-162	0.90	3	20	PL-259
716532	YRR	156-162	0.48	3	8	PL-259

\* Comes with hawk wind indicator



## Spare Termination Kit

### 716597

Shakespeare solderless cable termination kit. All the spare parts used for solderless terminations on the antennas to the left (Whipflex - 716530, Hawk - 716514 and Raider 716532).

Full fitting instructions included.



716597



## Stainless Steel VHF Antenna (0.90m)

Shakespeare squatty body whip antenna

- Supplied with an L shaped mounting bracket and hex back nut
- For masthead mounting
- Can be used with the popular V-Tronix solderless connector system for easy installation and end-of-season dismounting
- SO-239 connector in base
- No cable or plug provided, RG58 cable (716500) and PL-259 connector (716502) separately, see page 52
- V.S.W.R: nom 1.5:1 @ 156.8 MHz
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	Cable length metres	Plug type
716516	5215-AIS	156-162	0.90	3	Not supplied	



## Commercial Fibreglass VHF Antenna (1.6m)

Shakespeare MD7A commercial antenna clamp on

- Commercial VHF antenna
- Offers excellent bandwidth / VSWR characteristics within the frequency range
- Suitable for GMDSS installations
- Rugged, fibreglass antenna, which mounts using 2 clamps attached to the antenna
- V.S.W.R: 1.5:1 at resonance
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG213 cable length metres	Plug type
716542	MD7A	156-162	1.6	3	1	N jack



## Fibreglass VHF Antennas (1.50 - 2.4m)

Shakespeare RV120 fibreglass antenna

- White tapered fibreglass tube
- Stainless steel ferrule
- 1" x 14 TPI thread
- V.S.W.R: 1.3 at 156.8 MHz
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716550	RV120	156-162	1.5	3	6.1	PL-259

Shakespeare MD10S fibreglass antenna and white polycarbonate ferrule and ratchet mount for swivel and fold down.

- Supplied complete with white nylon ratchet mount
- V.S.W.R: 1.3 at 156.8 MHz
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716551	MD10S	156-162	1.5	3	6	PL-259

Shakespeare V-Tronix RV 240 fibreglass VHF antenna

- Stainless steel ferrule
- White tapered fibreglass tube
- 1" x 14 TPI thread
- V.S.W.R: 1.3 at 156.8 MHz
- 2 year limited warranty



Part no.	Model	Frequency MHz	Length metres	Gain dB	RG58 cable length metres	Plug type
716562	RV240	156-162	2.4	6	6.1	PL-259



716530



716514



716532



716516



716542



716550



716551



716562

## Commercial Fibreglass AIS Antenna (1.6m)

Shakespeare AIS-COM commercial antenna, clamp on

- Designed to withstand the most rugged punishment
- Offers excellent coverage within the narrowband frequency range
- Mounts using 2 clamps attached to the antenna
- V.S.W.R: 1.5:1 at 161.5MHz
- 2 year limited warranty

Part no.	Model	Frequency MHz	Length metres	Gain dB	RG213 cable length metres	Plug type
716546	AIS-COM	161.975-162.025	1.6	3	1	N jack



716546

## Anywhere HD Marine Television Antennas

High quality, high performance, omni-directional antennas with built-in amplifier for excellent reception.

Omni-directional antennas capture VHF, UHF and FM from every point of the compass without aiming the antenna. Available in 2 different sizes, 716575 is taller but smaller in diameter, ideal for fitting in tight spaces.

- Suitable for digital television reception
- Weatherproof
- Compact, aerodynamic design
- Omni-directional FM / TV reception (HDTV Ready)
- Operates from 12V / 24V DC or AC mains
- 83mA power consumption
- Mounting - 1"-14 thread ferrule built in
- Solid state electronics for reliability
- Low noise amplifier built in
- 2 year limited warranty

Part no.	Model	Frequency MHz	Height mm	Diameter mm	Gain dB avg.	Cable length metre
716575	SA-HDTV-MAR8 8"	87.5-230 VHF 470-862 UHF 88-108 FM	200	70	30	1.5
716576	SA-HDTV-MAR10 10"	87.5-230 VHF 470-862 UHF 88-108 FM	110	240	30	1.5



716575



716576

## AM / FM Antennas

Shakespeare 4353 glass mount antenna

Innovative design that lets you put an AM / FM antenna on your boat where it won't get in the way.

- 24" clear tape with embedded antenna elements.
- Has a permanent adhesive strip lets you attach it quickly and easily onto your boat's windshield or any smooth, non metallic surface
- 1.8 metre cable with attached Motorola plug (do not extend to longer than 7.6 metres)
- V.S.W.R: Receive only
- 2 year limited warranty

Part no.	Model	Frequency MHz	Length metres	Cable length metres	Plug type
716585	4353	550-1600 AM 88-108 FM	0.61	1.8	Motorola



716585

Shakespeare 4357-S (ACC100) marine band separator antenna

- Eliminates the need for a separate AM / FM antenna
- Works with any marine VHF antenna
- AM / FM and VHF radios can operate at the same time
- Will not interfere with VHF radio performance
- Automatic: no switching is required when transmitting on the VHF radio
- Cables are fitted with connectors
- 2 year limited warranty

Part no.	Model	Cable length metres	Plug type
716571	4357-S (ACC100)	2.5 (RG62) and 0.9 (RG58)	Motorola



716571



## Coaxial Cable

Radio guide specification coaxial cable from the ASAP Electrical range. These cables are designed for transmitting radio communication signal, making them suitable for use on board boats.

The cables features a centre core surrounded by a dielectric insulator, which is then protected by a metallic shield and a plastic jacket. The design does not permit electric and magnetic fields from outside the cable from interfering, and at the same time allows minimal leakage from inside the cable.

The dielectric insulator in these cables are made from solid polyethylene, which results in a time delay of 1.54 nano-seconds per foot. The cable features a single, braided shield to protect the signal carrying core.



716501

- Characteristic impedance: 50 ohms
- Max attenuation: 13.104 @ 750 MHz dB/100 ft

25 metres	100 metres	Model	Core size mm	Cable O.D. mm	Dielectric Insulator size mm
716500	716500-100	RG-58	0.81	5	2.9
716501	716501-100	RG-213	7 x 0.75	10.3	7.2



## Solderless Connectors



716502

No solder connection, install in seconds using only pliers and wire cutters.

Part no.	Model	Description
716502	PL-259	Centre pin connector for RG-8/X and RG-58 cable
716503	PL-258	Centre pin connector, used to join (splice) two lengths of RG-8/X and RG-58



716503



## Solder Connectors



716504

Part no.	Model	Description
716504	PL-259	Centre pin connector for RG-8AU and RG-213 cable. Solder required.
716505	NM-8-213-G	Male N connector for RG-8AU and RG-213 cable.



716505



## Termination Kit



716597

### 716597

Shakespeare solderless cable termination kit.

All the spare parts used for solderless terminations for Whipflex (716530), Hawk (716514) and Raider (716532) antennas. Full fitting instructions included.



## Deck Plug and Socket



716507

Shakespeare deck plug and sockets are designed for use with coax cables listed above with 'N' type connectors. They are supplied with a shroud and relevant mounting screws, as well as 2 protective caps.

Part no.	Model	For coaxial cable
716506	ACC105	716500 (RG-58)
716507	ACC106	716501 (RG-213)

## Aerial and Antenna Bases

All have a standard 1"- 14 thread.



716591

716592

716594

Part no.	Material	Description	Suitable for antennas up to metres
716591	Stainless steel	4 way ratchet	2.7
716592	Nylon	4 way ratchet	1.0
716594	Stainless steel	Fixed	1.5
716595	Nylon	Mounts 22-25mm rail	1.4



716595

716596

### 716596

Heavy duty vertical antenna base

Stainless steel construction antenna mount. Base comes complete with U-bolts and nuts. This base is 120mm high with a 90mm x 90mm backing plate.

## HOTPOT Marine Cabin Heaters

Hotpot marine warm air cabin heaters provide hot air to heat cabins and demist screens. They are designed to be connected to the engine closed cooling circuit. The heaters work in a similar way to a heater in a car or any other vehicle, but are larger and are made from tougher, marine grade materials. These robust radiator, fan and heater matrix's are contained in a stainless steel housing. The heater units have four outlets and there is a range of optional extras to suit. These cabin heaters provide hot air to heat cabins and demist screens and our supplied with a switch for 3 different positions.

Motor: 100W, maximum output: 10Kw



16mm (5/8") connections to the engine closed cooling circuit  
(Use heater hose **206416** per metre as required - page 177)



**722150 (10m)**  
55mm diameter  
outlet ducting pipe



**722153**  
Plastic bulkhead adaptor  
for 55mm hose



**722154**  
Heater outlet for 55mm  
ducting (adjustable)



**722155**  
Windscreen outlet for  
55mm ducting



**722156**  
Blanking cap  
for 55mm outlet

Part no.	Voltage	Average current draw amps	Water inlet / outlet mm	4 x air outlets mm	Overall width mm	Overall height mm	Overall depth mm
<b>722112</b>	12V	8.3A	16 (5/8")	55	440	163	300
<b>722124</b>	24V	4.2A	16 (5/8")	55	440	163	300

## Electric Horns

- Made from chrome plated brass and stainless steel
- Supplied with mounting bracket
- Suitable for pleasure and commercial applications

Part no.	Volts	Pitch Hz	Volume dB	Length mm	Height mm	Width mm	Tone
<b>Single Trumpet</b>							
<b>716101</b>	12V	390	112	400	120	100	High
<b>716102</b>	24V	390	112	400	120	100	High
<b>V-M12L</b>	12V	340	112	470	120	100	Low
<b>V-M24L</b>	24V	340	112	470	120	100	Low
<b>Twin Trumpet</b>							
<b>716103</b>	12V	390 + 340	115	470	120	195	High + low
<b>716104</b>	24V	390 + 340	115	470	120	195	High + low
<b>V-M12D</b>	12V	390 + 340	115	470	120	195	High + low
<b>Single Compact</b>							
<b>V-TN12H</b>	12V	490	109	90	110	105	High
<b>V-TN24H</b>	24V	490	109	90	110	105	High
<b>V-TN12L</b>	12V	410	109	90	110	105	Low
<b>V-TN24L</b>	24V	410	109	90	110	105	Low
<b>Twin Compact</b>							
<b>V-TN12D</b>	12V	490 + 410	112	90	110	210	High + low
<b>V-TN24D</b>	24V	490 + 410	112	90	110	210	High + low



716101



716104



V-TN12L



V-TN24D

## ASAP Air Horns

- Supplied with a compressor, air tubing, fittings and hardware
- Made from chrome plated solid brass

Part no.	Type	Horn pitch (volume at 1 metre)	Amps	Voltage	Dimensions inches (h x l x w)
<b>716211</b>	Single trumpet	High (126dB)	20A	12V	3.5 x 9.5 x 3.5
<b>716221</b>	Twin trumpets	High (127dB)	20A	12V	3.75 x 9.5 x 5
<b>716224</b>	Twin trumpets long	Low & high (121dB)	10A	24V	3.75 x 17 x 7

- Supplied with a compressor and mounting kit
- Made from chrome plated solid brass

Part no.	Type	Horn volume	Voltage	Length mm	Width mm
<b>716252</b>	Single trumpet	123dB	12V	241	89
<b>716254</b>	Single trumpet	123dB	24V	241	89
<b>716272</b>	Twin trumpets	123dB	12V	241	127
<b>716274</b>	Twin trumpets	123dB	24V	241	127



716211



716224



716252



## Fully Automatic Portable Battery Charger

WhisperPower WBC-handy fully automatic compact portable battery chargers. Suitable for boats, cars, trucks, motorbikes, caravans, campers etc. These portable battery chargers have a built-in temperature sensor to limit charging in high temperature conditions to prevent damage.



WP 61112003

- Very simple to setup and use
- Adjustable for Gel, AGM and open lead-acid batteries
- 7A and 15A models have built in LED torch which makes life easier connecting positive and negative
- Temperature sensor / compensation
- 5 stage charging
- Simple to set up and battery size selection, equipped with charging status interface
- Reverse polarity protection
- Supplied with permanent installation kit and 'click on' for portable applications
- International protection grade: IP54
- Cabling: battery cable 1700mm, power cable 1800mm

Part no.	Output voltage	Amps	Length mm	Width mm	Height mm
WP 61112003	12V DC	2A	130	35	35
WP 61112008	12V DC	7A	225	50	50
WP 61112016	12V DC	15A	315	65	60



## Fully Automatic Smart Battery Charger

The WhisperPower WP-BC series of battery chargers offer a more permanent, higher output option to battery care than the handy series of portable chargers (above). They are suitable for use in marine craft as well as motorhomes and RVs using Gel, AGM and other lead acid batteries.

The WhisperPower Smart Chargers take AC input voltage from shore power, land power or a generator to provide DC power for 3 outlets. They are even compatible with low quality power sources as they will accept charge as low as 90V AC.



WP 61112316

- Helps keep batteries in good condition and help extend the life of a battery
- Built in charge status indicator, as well as a remote version which can be mounted in a more convenient place, such as the dashboard
- 6 metre length of connection cable is supplied for the remote panel
- Protection against short circuits and current overload
- 3 step system of battery charge which provides the right level of charge, depending on the condition of the battery
- Supplied with a mains AC power cable with a UK plug
- Can be mounted on the wall, floor or table top
- Temperature sensor included, which can be attached to a battery to detect high temperatures and prevent overcharging
- Ignition protected
- CE approved and ABYC compliance

Part no.	Output voltage	Output voltage	Output current	Length mm	Width mm	Height mm
WP 61112312	90-265V DC	12V	20A	295	86	206
WP 61112314	90-265V DC	12V	40A	295	86	206
WP 61112316	90-265V DC	12V	60A	356	99	206
WP 61124313	90-265V DC	24V	30A	356	99	206



## Sine Wave Inverter

These electrical inverters take a direct current (DC) input and changes this into an alternating current (AC) output. This means they can be connected to a battery and produce a current to power regular household appliances on board boats, recreational vehicles, caravans and holiday homes.

- Temperature sensor compensation
- True sine wave
- Silent and compact size
- Regulated output
- Low voltage shutdown
- Has a USB output
- The display and status LED shows information on battery voltage, inverter AC output and any error messages that may arise
- Ventilation: Forced cooling
- Battery connection: M8 studs



WP 61121501

Input 12 Volt DC	VA (Watts)	Length mm	Width mm	Height mm	UK sockets
WP 61120511	400	89	175	200	1
WP 61121501	1000	90	319	185	1
WP 61122501	2000	115	420	240	2



## Sine Wave Inverter and Battery Charger Combi

The WhisperPower WP-Combi's are a cost-effective, powerful pure sine wave inverter, 3-stage battery charger and a robust high speed AC to AC transfer switch. They feature a distortion free sine wave inverter, with no limitations in use: from standard household appliances up to sensitive electronics, the sine wave inverter operates the connected load.

The WhisperPower sine wave inverter and battery charger combination unit offers the following key features and benefits:

- Silent and clean operation
- Fully automatic three stage battery charging
- Suitable for Gel, AGM and open lead acid batteries
- Provides fast, safe charging, extending the battery life due to the efficient charging method
- 1 main output, 2nd output for starter battery
- Automatically switch from shore power to inverter power
- Features UPS mode (uninterrupted power supply)
- Remote control fitted as standard and cable included
- Up to 3Kw 230 VAC / 50 Hz power
- Ideal for operation with solar or wind systems
- Adjustable to work with limited land and genset power
- Conformity: EN60950-1, UL950, EN55022, CE marking
- Operating temperature range: -10°C to +40°C (derating from +40°C to +65°C)
- Warranty: 1 Year
- International protection grade: IP21



WP 61124360

Part no.	Input Voltage	Wattage	Amperage	Length mm	Width mm	Height mm
WP 61124360	24V DC	3000W	60A	458	218	190



## Battery Monitor Pro With 500A Shunt

The WhisperPower WBM-Pro battery monitors are designed to provide a wide range of data relating to one or two battery banks. They are dash mounted and very easy to use and set up - featuring a plug and play installation. The gauge is black and grey in colour. Feature a backlit LCD screen which displays the following battery readings:

- Voltage
- Current
- Consumed amp hours
- Remaining battery capacity
- Battery time remaining

This critical battery information can be quickly accessed through the easy to use interface. All the data provided can help you keep an eye on the condition of the battery or batteries and helps you know when to recharge or even replace your battery. They also feature various programmable alarms to alert you of certain conditions occurring.

Supplied with a 500 amp battery shunt which is installed in the circuit to act as a resistor. This helps measure and regulate the power going in and out of your batteries.

Shunt dimensions (l x w x h) mm: 87 x 45 x 17mm (base), 35mm (including fasteners).



WP 40290311

Part no.	Voltage	Diameter mm	Body diameter (cut out) mm	Overall depth mm
WP 40290311	12V / 24V DC	64	51	78.5



## Shore Power Connection Inlet

- For installation through the bulkhead
- Socket has a 4 screw mounting flange to fix to the boat, with a secure cover for when it is not in use
- Inlet is waterproof and safe
- Features a CEE shore power plug socket for use with the ShoreConnect power cable
- All contacts are made from nickel plated brass and feature screw type terminals
- Power inlet also includes a rubber gasket, rubber back cover and 4 stainless steel mounting screws

Part no.	Voltage up to	Maximum current	Construction
WP 50214680	250V AC	16A	Plastic nylon
WP 50214684	250V AC	16A	Stainless steel
WP 50214685	250V AC	32A	Stainless steel



WP 50214680



WP 50214684



## Generator Spares

For WhisperPower generator spares, please see Engine Spares and Gearboxes section, page 92.





WP 50214751



## Shore Power Cable With Moulded Plug

- WhisperPower ShoreConnect power cable to connect boats to shore power
- Allows batteries to be charged and for AC appliances to be directly powered from land
- This yellow cable is supplied in a waterproof storage bag for easy stowing and includes a Velcro strap to tie the cable up
- Cable is made from polyurethane
- The cable features a moulded CEE 3 pole plug and connector with an LED light at the socket end to show when power is being received
- A watertight cap is attached to the connector end and the plug is VDE approved
- For voltage: Up to 250V AC / 50 Hz
- Protection rating: IP56

Part no.	Length metres	Cable size mm <sup>2</sup>	Amps	Compatible with connection inlet
WP 50214751	15	2.5	16	16A
WP 50214752	25	2.5	16	16A



WP 50214720



## Shore Power To Schuko Adaptor

### WP 50214720

WhisperPower ShoreConnect adaptor for Euro plug (schuko). Comprises of a short length of 2.5mm<sup>2</sup> polyurethane cable (H07BQ-F 3G) with a blue shore power connector on one end and a moulded black schuko plug the other.

- For voltage: Up to 250V AC
- Maximum current: 16A
- Cable size: 2.5mm<sup>2</sup>
- Cable length: 300mm



WP 50214688



## Shore Power Cable Connector

- Voltage up to 250V AC
- Maximum current 16A
- ShoreConnect cable connector for mating shore power cable to a power inlet on the boat
- As well as the weatherproof sealing cap to ensure it complies with CE regulations
- Recommended for use with H07BQ-F 3G 1.5mm<sup>2</sup> and 2.5mm<sup>2</sup> cable
- Protection rating: IP44

**WP 50214688** - Maximum current 16A

**WP 50214689** - Maximum current 32A



747200



## Waterproof Shore Power Plug

### 747200

- Blue polycarbonate mains power plug for shore power connection
- Construction and design ensures that the plug is waterproof to prevent any potential hazards
- Features a cable locking system and silver plated brass contacts
- An optional plug cover also available (**747210**)
- Voltage range: 110V - 240V AC
- Amp draw: 30A



WP 50214660



## Shore Power RCD Circuit Breaker

### WP 50214660

- Designed to disconnect the circuit if current leakage or imbalance is detected in the shore power system
- Will detect and break the circuit very quickly to prevent any chance of electric shocks
- This residual-current device (RCD) is also commonly known as a residual-current circuit breaker (RCCB) or a residual twin-direct current couplet (R2D2).
- For voltage: 230V AC
- Maximum current: 16A
- Single phase
- 3 wires



## Voltage Converter

These voltage converters (also known as a voltage dropper / voltage reducer) are ideal for dropping down a 24V electrical system for use with 12V electrical components. They feature silicone encapsulated components in a proven design, for reliability and low quiescent current.

- Approved to 72/245/EEC as amended by 95/54/EEC, e11
- Input voltage: 20V - 32V DC
- Output voltage: Half the input voltage
- Protection from overcurrent, overheat and transients

Part no.	From to	Amps	Isolated return	Length mm	Width mm	Height mm
715524	24V-12V DC	5	Yes	95	85	38
715526	24V-12V DC	15	Yes	95	85	38
715527*	24V-12V DC	10	Yes	150	85	38
715528	24V-12V DC	22	Yes	180	123	38

\*715527 also has a 40mA auxiliary output to power radio memories etc.



715524



715526



## Switching Relays

Use these relays to operate heavy consumption accessories via lower rated switches.

Part no.	Voltage	Type
714851	12V DC	60 amp 4 terminal 33RA type
714852	24V DC	40 amp 4 terminal 33RA type
714855	24V DC	40 amp heavy duty 4 terminal 33RA type
714870	12V DC	30 amps normally open, 20 amps normally closed switching
714876	24V DC	20 amps normally open, 10 amps normally closed switching



714851



714852



714876



## Murphy Inline Solenoid Valves

These valves are closed inline diesel fuel shut off valves that open when connected to a battery DC supply. Removal of power to the solenoid valve - e.g. via a Murphy magnetic switch or other engine fault control circuit - will close the valve causing fuel shut off and engine shutdown. These can be used in a range of engine control and fault protection applications and is standard earth return.

Part no.	Model	Voltage	BSPT
306212	SV12	12V DC	3/8"
306224	SV24	24V DC	3/8"



306212



## Push/Pull DC Solenoids

Murphy push / pull DC solenoids provide single unit versatility for engine applications, such as engine shutdown solenoids. Supplied with return spring and rubber seal boot.

- No internal switches
- Reduce coil burnout
- One solenoid for pull / push operation
- Use for energised to stop or energised to run (with relay solenoid)



306008

Part no.	Murphy part no.	Voltage	Maximum stroke mm (inches)	Holds up to pounds / N
306007	RP-2307B	12V DC	25 (1")	23 / 102
306008	RP-2308B	24V DC	25 (1")	23 / 102
306009	RP-2309B	12V DC	38 (1-1/2")	34 / 151
306010	RP-2310B	24V DC	38 (1-1/2")	34 / 151



## Relays

Part no.	Voltage	Amps	Pins
<b>Mini</b>			
714801	12V	22A	4
714805	12V	40/15A	5
714807	24V	22/10A	5
<b>Heavy Duty</b>			
714825	24V	60A	-
<b>Heavy Duty High Performance</b>			
714827	12V	100A	-
714828	24V	100A	-
<b>Micro</b>			
714835	12V	20/10A	5
714837	12V	22A	4



714805



714825



714837



The mounting screw hole can be easily removed if it is not required.

### 306021

The Murphy RPS inline ball joint is suitable for use with push / pull solenoids. The inline ball joint features a 1/4"-28 UNF female thread and has an overall length of 51mm (2").



306021

### 306026

The Murphy clevis yoke is suitable for use with push / pull solenoids. The stop solenoid clevis yoke features a 1/4" UNF female thread and measures 28.1mm long with a 16mm outside diameter jaw and a 2mm pin.



306026



## SD85 Solenoid Relay

306085

The SD85 is used when the solenoid is duty cycled for short time periods. It activates both coils of the solenoid for a short time and then de-energises the 'energise' coil.

Typical application would be on energised to run solenoids, where the SD85 is used to prevent premature solenoid coil burn out.



306085

## Battery Switches

Battery switches are available in many forms. Having tried many types since we started A.S.A.P. Supplies, we have settled on a range of products from a number of manufacturers who offer quality, reliability, and of course, value for money. While some of these lines may not be the cheapest you will find, we are confident that you will be delighted with the quality and performance.

Reference to alternator field disconnect switches. When used with non-unitised alternators, these models will interrupt the field current (reducing the possibility of damage) if turned 'OFF' with the engine running.

The range includes single and double pole isolators through to change over switches with alternator disconnect and key lock features.



714661  
Compact - Medium duty



714675  
Standard - Medium duty



714690  
Heavy duty

### PERKO® Battery Change Over Switches

You can select Off / 1 / All / 2.

Part no.	Alternator field disconnect	Key lock	Continuous capacity (amps)	Intermittent capacity (amps)	Terminal size stud mm (inch)	Diameter mm	Depth mm
Compact - Medium duty							
714661	No	No	315A	450A	10 (3/8")	102	78
714663	No	Yes	315A	450A	10 (3/8")	102	78
Standard - Medium duty							
714670	No	No	250A	360A	10 (3/8")	134	67
714675	No	Yes	250A	360A	10 (3/8")	134	67
714680	Yes	No	250A	360A	10 (3/8")	134	67
714685	Yes	Yes	250A	360A	10 (3/8")	134	67
Heavy duty							
714690	Yes	No	380A	850A*	13 (1/2")	134	86

\* = 850A is intermittent (5 minutes on, 5 minutes off)



714669  
Compact - Medium duty



714687  
Standard - Medium duty



714697  
Heavy duty

### PERKO® Battery Isolating Switches

You can select On / Off.

Part no.	Alternator field disconnect	Key lock	Continuous capacity (amps)	Intermittent capacity (amps)	Terminal size stud mm (inch)	Diameter mm	Depth mm
Compact - Medium duty							
714667	No	No	315A	450A	10 (3/8")	102	78
714669	No	Yes	315A	450A	10 (3/8")	102	78
Standard - Medium duty							
714677	No	No	250A	360A	10 (3/8")	134	67
714679	No	Yes	250A	360A	10 (3/8")	134	67
714687	Yes	No	250A	360A	10 (3/8")	134	67
Heavy duty							
714697	Yes	No	450A	1200A*	13 (1/2")	134	86

\* = 1200A - is intermittent (15 seconds on, 5 minutes off)

### Battery Isolator Changeover Switch

The Vetus battery selector switch is a multi-functional component. From the 'off' position, the following batteries may be "switched on", in accordance with the switch pattern: Battery 1 only, Battery 1 plus Battery 2, Battery 2 only.

The switch enables usage and charging of the batteries, both individually and in parallel connection.



V-ACCUSCH

Part no.	Voltage	Current amps	Continuous capacity (amps)	Intermittent capacity (amps)	Dimensions mm (l x w x h)
V-ACCUSCH	6V / 12V / 24V / 32V	175A	175A	300A	135 x 135 x 75



## Single Pole Battery Isolator Switch

The marine specification heavy duty battery isolator can be recessed or surface mounted and locked using a 6mm padlock with 75mm reach (not supplied).

Part no.	Voltage	Continuous capacity (amps)	Intermittent capacity (amps)	Type / pole	Dimensions mm	Contact stud size (mm)
714640	48V	600A	800A	On / off heavy duty pole	102 x 102 x 90	12



714640



## Battery Isolators and Switches

Supplied complete with a removable red plastic key and a fitted splash proof cap for the key aperture.

Part no.	Voltage	Current amps	Type / pole	Cylinder diameter mm	Overall length mm
714605	12V / 24V	140A	On / Off single pole	25	116
714615	12V / 24V	120A	Quarter turn key to isolate - dual pole	25	142
714621	12V / 24V	250A	On / Off single pole	25	135

### 714629

Replacement key for 714621

Supplied with a removable key, spare key and a weather seal.

Part no.	Continuous capacity (amps)	Contact studs	Base diameter mm	Height mm (excluding cap)
714601	100A	M10 terminal nuts / studs	57	64



714605

714615

714621



714601



## Battery Split Chargers

The ASAP Electrical range of “very low drop” automatic battery sensed isolators (charge sharers, split chargers) allow you to recharge two or more batteries simultaneously.

- Automatically separate connected batteries to prevent discharge or “dumping” of the battery with higher remaining power into the one with the lower power
- Automatically charges the battery which has the lowest charge and then proceed to the other batteries
- Heavy duty construction with a rust proof, anodised aluminium case
- Wide cooling fins to provide the maximum protection from overheating thus extending the isolator life
- “Very low drop” characteristic guarantees an extremely small loss of voltage at the exit
- Maximum voltage: 200V

Part no.	Amps	Number of battery banks	Number of alternators	Dimensions
741002	50	2	1	100 x 120 x 53
741003	50	3	1	100 x 120 x 53
741004	50	4	2	200 x 120 x 53
741006	50	6	2	200 x 120 x 53
741032	100	2	2	200 x 120 x 53
741033	100	3	2	200 x 120 x 53
741042	150	2	2	200 x 120 x 53



741002

Need project help or technical advice? Call our trusted and reliable team today on 01502 716993



## Safety Keys

- Emergency engine stop keys
- Popularly used with outboard control boxes



744300



744303

Part no.	Type
744300	With seven keys
744301	For Tohatsu motors
744302	For OMC 3 arm fork
744303	For OMC simple fork
744304	For OMC / Honda
744305	For Yamaha motors
744306	For Mercury / Mariner
744307	For Mariner / Suzuki



## Engine Kill Switches



744323



744328



744324

Part no.	Description
744323	Chrome brass, pull for open circuit
744324	Chrome brass, pull to close circuit
744328	With key, cable and hook. Pull to open or close circuit.

### 744329

Spare key and cable for Selva, Johnson, Evinrude and Honda



## PILOT Gas Alarms

A Pilot gas alarm is an important and cost effective item of safety equipment wherever gas or other dangerous vapours may be present in the environment.

However good a gas or engine installation may be there can be occasions when either due to mechanical failure or human error, a potentially lethal leak may occur. Many of the vapours present on boats and in caravans such as butane, propane and petrol are heavier than air, meaning even a small leak can soon build up to dangerous proportions in the bilge of a boat or in an inadequately ventilated caravan.

Pilot gas alarms are not fitted with an on / off switch as they are designed to be permanently on whenever the master switch is activated. The Pilot gas alarm also has a built in test feature to ensure the system works correctly.



715501



715503



12V	24V	Description	Cable length (metres)	Detector heads	Dimensions mm l x w x d
715501	715501-24	Mini gas alarm	3.5	1	100 x 53 x 35
715502	715502-24	Gas alarm	3.5	2	100 x 65 x 35
715505	715505-24	Gas alarm shutdown solenoid	3.5	2	120 x 65 x 35
715503	715503-24	Gas valve controller shutdown solenoid	-	-	100 x 53 x 35



### 715502-1

Replacement gas detector head for Pilot gas alarms



### 715502-2

Replacement pilot gas detector head and cable



## Warning Buzzers

A warning buzzer can be used in many applications to warn of a potential problem. A simple alarm system can be made from a switch and a buzzer such as those for low oil pressure, high water temperature, or a bilge float switch for high water level. Use in conjunction with a warning lamp to provide both visual and audible warning of potential hazards.



709314

Part no.	Volts	Type	Colour
709312	12V	Single urgent tone	Black
709314	24V	Single urgent tone	Red



## Warning Buzzer

### 709303

Black warning buzzer suitable for use with Murphy switch gauges and TL7 warning lamps.



709303

The alarm sound of the buzzer can be set to pulse or a steady sound. This buzzer can be through panel mounted with panel thickness of 3mm with a cut out required of 29mm. Suitable for use with 12V or 24V systems. Low amperage, only 28 milliamps @ 24 Volts.



## High Bilge Water Level Alarms

If the sensor comes in contact with any fluid for longer than 8 seconds the alarm will be triggered. For more information, please see Pumps section, page 216.



710227

Part no.	Voltage
710227	12V
710228	24V



## High Bilge Water Level Alarms

Provides both an audible and visual warning. For more information, please see Pumps section, page 215.



710242

Part no.	Voltage
710242	12V
710244	24V



## Warning Lights

A warning lamp can be used on its own or with a buzzer to warn of a potential problem.

### Illuminated Warning Lamps

Supplied without a bulb and should be ordered separately.

- 12V bulb - **709931**
- 24V bulb - **709932**
- 17.2mm hole diameter

Part no.	Lamp colour	Application
<b>709034</b>	Red	Water temperature
<b>709035</b>	Red	Battery
<b>709036</b>	Red	Oil
<b>709037</b>	Red	(!) Warning
<b>709038</b>	Amber	Heater start
<b>709039</b>	Red	Water level



709038



709037

### Illuminated Warning Lamps

These illuminated warning lamps have a chromed bezel and a raised lens. Supplied without a bulb and should be ordered separately.

- 12V bulb - **709901**
- 24V bulb - **709902**
- 19mm diameter hole

Part no.	Warning lamp colour
<b>709001</b>	Red
<b>709002</b>	Amber
<b>709003</b>	Blue
<b>709004</b>	Green



709001

### Economic Illuminated Warning Lamps

Economic small illuminated warning lamp supplied complete with a 12V bulb. Fits into a 13mm diameter hole.

Part no.	Warning lamp colour
<b>709021</b>	Red
<b>709022</b>	Amber
<b>709023</b>	Blue
<b>709024</b>	Green



709023

### Multifunctional Warning Lamp Panels

Consists of four warning lamps in one housing and supplied complete with bulbs. Warning lamps include: Temperature, Oil, Charge and Heater / Cold Start.

- 12V bulb - **709941**
- 24V bulb - **709942**

Part no.	Volt
<b>709062</b>	12
<b>709064</b>	24



709062



## Switches For Low Pressure and High Temperature

- Teddington DCA switches are available for temperature and pressure applications
- Activation point is preset by the factory

### Temperature Switches

- Change for reset 9°C nom
- Tolerance: 20-109°C + / -2°C  
110-140°C +/- 3°C
- Max. overload 25°C above set point
- Max. phail press (extl) 12 bar
- Electrical switching – single pole double throw switch
- Rating 5 amp 24V DC resistive, 2 amp inductive
- Connections – 3 x 6.35 spades (normally only 2 are used)



TED-DCA-AB-099

Part no.	Thread size	Temperature set at
<b>TED-DCA-AA-095</b>	1/2" BSP Male	95°C
<b>TED-DCA-AB-095</b>	3/8" BSP Male	95°C
<b>TED-DCA-AB-096</b>	3/8" BSP Male	96°C
<b>TED-DCA-AB-098</b>	3/8" BSP Male	98°C
<b>TED-DCA-AB-099</b>	3/8" BSP Male	99°C
<b>TED-DCA-AE-099</b>	3/8" NPTF Male	99°C
<b>TED-DCA-AC-090</b>	1/4" BSP Male	90°C
<b>TED-DCA-AJ-095</b>	M14 x 1.5	95°C
<b>TED-DCA-AN-095</b>	5/8" x 18 UNF	95°C
<b>TED-DCA-AN-097</b>	5/8" x 18 UNF	97°C
<b>TED-DCA-AN-099</b>	5/8" x 18 UNF	99°C



#### TED-DCA-53

Provides splash protection for DCA terminals. Suitable for both pressure and temperature Teddington switches.

### Pressure Switches

- Change for reset 0.5 bar nom
- Tolerance +/- 0.14 bar
- Max overload 12 bar
- Electrical switching – single pole double throw switch
- Rating 5 amp 24V DC resistive, 2 amp inductive
- Connections – 3 x 6.35 spades (normally only 2 are used)



TED-DCA-BF-048

Part no.	Thread size	Pressure set at PSI
<b>TED-DCA-BF-048</b>	1/8" BSP Male	7
<b>TED-DCA-BF-069</b>	1/8" BSP Male	10
<b>TED-DCA-BF-104</b>	1/8" BSP Male	15
<b>TED-DCA-BG-083</b>	1/8" NPT Female	12
<b>TED-DCA-BG-124</b>	1/8" NPT Female	18

For 1/8" NPT thread adaptor bushes - see page 174.

### Accessories

#### 710490

Will activate a small warning lamp or buzzer. Threaded 1/8" NPT male set at approximately 7 PSI.



#### 710918

Pressure switch junction adaptor  
Machined adaptor piece, 1/8" BSP taper male screws onto the engine block. The two female 1/8" BSP ports can be used for a gauge sender and / or a pressure switch.



See Gauges section for senders, pages 166-167.



## Key Switches

All key start switches on these pages are designed for through panel mounting. From two position on / off types, simple 'spade key' types through to IP64 water resistant types, we have versions for diesel or petrol engine installations. A splash proof key slot cover is available for certain models and we also offer replacement keys for most types.

### Wiring Information

		Aux	Off	Aux	Heat	Start
TERMS	P	0	1	2	3	
709563 30-58						
30-15/54						
30-19						
30-17						
30-50a						

	Aux	Off	Aux	Start
TERMS	P	0	1	2
709553 30-58				
30-15/54				
30-50a				

30 = Supply in.



709563



709596



709553



709598



### Water Resistant Key Start Switches

- Water resistant to DIN400500 IP64
- Ideal for internal and external applications
- Through panel thread M26 x 1.5

For more information, see online at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Description
709553	Key switch 4 position with 2 keys
709563	Key switch diesel 5 position
709596	Splash proof key slot cover
709598	Spare key for switch 709553 and 709563



709573



709593



709583



709599



### Standard Key Switches

- Quality switches suitable for use on most applications
- Through panel thread M22

For more information, see online at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Description
709573	2 position on / off
709583	4 position off / aux / ignition / start
709593	Splash proof key slot cover M22 thread
709599	Spare key for switch 709573 and 709583



### Ignition Switch

Four position Lucas type key start switch body with heat position.

- Supplied without the barrel and keys
- Through panel mounted key switch
- Supplied with chromed fixing nut
- Can be used with energised to run and heater glow plugs, making this switch ideal for diesel engines
- Used by Thornycroft engines and Perkins engines
- Replaces Thornycroft part number 54381445

Terminal 1: Live in

Terminal 2: Unswitched aux (live through sweep)

Terminal 3: Starter

Terminal 4: Switched aux (off in heat start position)

Terminal 5: Heater plugs



709523



709527

Part no.	Description
709523	4 position Lucas type key start switch body
709527	Standard barrel and keys for 709523



### Key Start Switch

Four position engine key start switch with heat position.

- Supplied with single spade key
- Can be used with energised to run and heater glow plugs, making this switch ideal for diesel engines
- Can replace Lucas 34228 key switch

Terminal 1: Supply in

Terminal 2: Unswitched aux

Terminal 3: Glow plugs

Terminal 4: Starter motor



709513



709519

Part no.	Description
709513	Key start switch, Off / Run / Heat / Start
709519	Universal key for 709513



## Switch Panels

All ASAP Electrical switch panels are made in the UK and are screen printed, with a black fascia and white printing and are pre-wired to a common point.

- For 12 and 24 volt systems - non-illuminated
- Visi switches - black 20A switches that show bright red when switched on
- Fuse or circuit breaker option
- All supplied with a sheet of adhesive legends
- All panels listed in this section are in full compliance with the Recreational Craft, Directive and incorporate the following standard: Small Craft Electrical Systems DC ISO 10133 : 1994, and ISO 13927: 1995 Small craft AC.

With blade fuses	With circuit breakers	Number of switches	Layout	Height mm	Width mm	Switch type	Water resistant
<b>711051</b>	<b>711055</b>	3	1 column of 3	90	135	Visi	No
-	<b>711101</b>	3	1 row of 3	115	135	Rocker	Yes
<b>711011</b>	<b>711015</b>	6	1 row of 6	115	240	Visi	No
<b>711061</b>	<b>711065</b>	6	1 column of 6	150	135	Visi	No
<b>711122</b>	-	6	2 rows of 3	200	135	Rocker	Yes
<b>711124</b>	<b>711116</b>	6	1 row of 6	115	240	Rocker	Yes
<b>711071</b>	<b>711075</b>	12	2 columns of 6	150	245	Visi	No
<b>711132</b>	<b>711136</b>	12	2 rows of 6	200	240	Rocker	Yes

**711099** - Replacement visi switch 20A

**711501** - Replacement rocker switch 20A

Spare circuit breakers: See page 65. Spare fuse cover: **711098**

Spare blade replacement fuses are shown on page 66.

**711087** - Spare sheet of self adhesive assorted legends. Printed white on black and covers many popular switch labels.



711051



711101



711011



711061



711122



711116



711075



711136



## Soft Touch Rocker Switches

### Step 1

Choose your rocker switch body



711746

- Water-resistant IP56
- Requires a rectangular hole size 21.5 x 36.8mm for the installation
- Maximum capacity 25A at 12V and 15A at 24V
- Supplied with double LED lights: one lights the symbol, which is always on, the second one lights a special slit under the symbol that it switches on, for an example when the light indicator is activated.

Part no.	Type	Terminal
<b>711741</b>	Off / On	2
<b>711742</b>	Off (On)	2
<b>711743</b>	On / Off / On	4
<b>711744</b>	On / Off / (On)	4
<b>711746</b>	(On) / Off / (On)	6 (2 poles)
<b>711747</b>	Sprung On / Off / Sprung On	4

Note: (On) = Spring return

### Step 2

Choose your toggle with lighted symbol

- Fitted with semi-rigid anti-skid surface
- Polycarbonate coated with black polyurethane



711753

Part no.	No.	Application
<b>711751</b>	1	Navigation lights
<b>711752</b>	2	Anchor lights
<b>711753</b>	3	Horns
<b>711754</b>	4	Trim tabs up / down
<b>711755</b>	5	Blowers / extractors
<b>711756</b>	6	Wipers
<b>711757</b>	7	Bilge pumps
<b>711758</b>	8	Tap pressure pumps
<b>711750</b>	9	Plain
<b>711760</b>	10	Bilge pump 2
<b>711761</b>	11	Instrument lights
<b>711762</b>	12	Radio / stereo
<b>711763</b>	13	Cockpit lights
<b>711764</b>	14	Anchor windlass
<b>711766</b>	15	Battery parallel
<b>711767</b>	16	Fridge / air con
<b>711768</b>	17	Spot / searchlight
<b>711770</b>	18	Autopilot
<b>711775</b>	19	Cabin lights
<b>711776</b>	20	Screen washer
<b>711780</b>	21	Deck lights



1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16



17



18



19



20



21

### ASAP Electrical Rocker Switches



711361

- Rocker action on / off
- Rated 16A
- Fits a 30 x 12mm hole

12V	24V	Light colour
711361	711371	Red
711362	-	Amber
711363	711373	Blue
711364	-	Green
711369 (12 & 24V)		Non-illuminated

### ASAP Electrical Standard Rocker Switches



711701

- Installation requires rectangular hole 21.5 x 36.8mm
- Maximum rate 25A at 12V and 15A at 24V
- Rigid toggle and pilot light with closed switch
- Waterproof

Part no.	Configuration
711701	Off / On
711702	Off / (On)
711703	On / Off / On
711706	(On) / Off / (On) - No LED

Note: (On) = Spring return

### ASAP Electrical Push Button Switches

Push button switch, push in for on and release for off. Typical applications include:

- Horn push
- Screen washer
- Push to stop
- Pumps

Rated 12.5A on 12V DC, 6.25A on 24V DC.  
Use relays for higher current loads.



711475

Part no.	Description	Cut out mm
711475	Interior only	22
711476	Splash proof	22

### ASAP Electrical Toggle Switches



711418

- Non-illuminated
- Chromed toggle lever
- Requires a 12mm hole

Part no.	Configuration	Amps
711430	On / Off	15
711416	Spring On / Off / Spring on	15
711417	On / Off / Spring on	15
711418	Off / Spring on	15
711419	Off / On / On (2 speed)	15
711435	On / Off / On (heavy duty)	15

Note: (On) = Spring return



711419



**711499**  
ASAP Electrical splashproof cover for the above listed toggle switches.

### ASAP Electrical Carling Rocker Switches



711524

- Water resistant rocker switches
- Cut out size 36mm x 22mm
- Please see online at [www.asap-supplies.com](http://www.asap-supplies.com) for wiring diagrams

Illuminated LED		
Part no.	Configuration	Voltage
711521	On / Off	12V
711522	Off / Sprung on	12V
711523	On / Off / On	12V
711524	On / Off / (On)	12V
711541	On / Off	24V
711543	On / Off / On	24V
711544	On / Off / (On)	24V

Note: (On) = Spring return



711503

Non-Illuminated 12V / 24V	
Part no.	Configuration
711501	On / Off
711502	Off / (On)
711503	On / Off / On
711504	On / Off / (On)
711508	Off / On / On (2 speed)

Note: (On) = Spring return

### Vetus Push Button Switch

Push button switch, push in for on and release for off

- Operates marine horns with a current consumption of 15A maximum
- Suitable for 12 and 24V DC electrical installations
- Outside dimensions: 38mm
- Watertight to IP67



V-HORNPB

Part no.	Cut out mm
V-HORNPB	31

### ASAP Electrical Water Resistant Turn Switches

Water resistant turn switches. These turn switches have 2 positions; on and off.



711438



711439

Part no.	Volts	Current	Cut out mm	Illuminated
711438	12V	15A	12	Yes
711439	12V	15A	12	No



## Foot Switches

Waterproof foot operated control switches, which activate a remote control switch or relay. These foot switches have a flip up cover with a switch button. Foot switch can be adapted for use with most winch or thruster solenoids. Suitable for use with 12V or 24V systems.

Part no.	Body colour	Switch colour
711601	Black	Red
711602	Black	Grey
711603	White	Red
711604	White	Grey
711605	Stainless steel	Red
711606	Stainless steel	Grey



711601



711604



711606



## Push / Pull Switch



711452

### 711452

- Operated by a pull to turn on and a push to turn off
- With a black plastic knob
- Usable thread length of 11mm
- Two connections
- Rated for a permanent load of 12.5 amps at 12V or 6.25 amps at 24V
- Cut out 8mm



## Circuit Breakers

### ETA Push Switch Circuit Breakers

Part no.	Amps	Length mm	Width mm	Depth mm	Cut out hole mm
711480	2.5	46	28	14	9.5
711481	5	46	28	14	9.5
711482	8	46	28	14	9.5
711483	10	46	28	14	9.5
711484	15	46	28	14	9.5
711485	20	46	28	14	9.5
711486	25	46	28	14	9.5
711487	30	46	28	14	9.5
711488	35	46	28	14	9.5



711483



711489

### 711489

Water resistant cover for the above circuit breakers

### Push Switch Circuit Breakers



711095

Fits in the ASAP Electrical panels.

Part no.	Amps	Length mm	Width mm	Depth mm	Cut out hole mm
711091	5	57	35	15	10
711092	8	57	35	15	10
711093	10	57	35	15	10
711094	15	57	35	15	10
711095	20	57	35	15	10
711096	25	57	35	15	10



## Waterproof Circuit breakers

Suitable for marine and automotive environments in auxiliary and accessory circuits. Sealed and waterproof, suitable for use in engine compartments and bilge areas.

- Switch on circuit breaker to easily reconnect the circuit
- Ignition protected
- CE certified

Panel mount			
Part no.	Amps	Voltage	Stud size
711591	50A	48V	1/4"
711593	80A	48V	1/4"
711594	100A	48V	1/4"

Surface mount			
Part no.	Amps	Voltage	Stud size
711581	50A	48V	1/4"
711582	60A	48V	1/4"
711583	80A	48V	1/4"
711584	100A	48V	1/4"
711585	150A	48V	1/4"



711584



711591



## Fuses and Holders

### Small Glass Fuses

Part no.	Amps	Size mm	Pack of
714402	2	20 x 5	5
714405	5	20 x 5	5
714410	10	20 x 5	5
714415	15	20 x 5	5
714420	20	20 x 5	5



714405

### Ceramic 'Continental' Fuses

Part no.	Amps	Colour	Pack of
714305	5	Yellow	5
714308	8	White	5
714316	16	Red	5
714325	25	Blue	5



714308

### Standard Glass Fuses

Part no.	Amps	Size mm	Pack of
714201	1	30 x 6.3	5
714202	2	30 x 6.3	5
714203	3	30 x 6.3	5
714205	5	30 x 6.3	5
714210	10	30 x 6.3	5
714215	15	30 x 6.3	5
714220	20	30 x 6.3	5
714225	25	30 x 6.3	5
714235	35	30 x 6.3	5
714250	50	30 x 6.3	5



714205

### 714066

Through panel glass fuse holder (16mm hole). For standard 32mm x 6mm glass fuses.



714066



## Blade Fuses and Boxes

### Blade Fuses

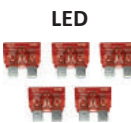
- Standard 'medium' size blade fuses
- Commonly found fitted to many vehicles and marine equipment
- Pack of 5
- Compatible with fuse boxes listed on the right
- LED fuses have built in LED light which glows when the fuse is blown



714101



714110



714190

Blade fuses	LED blade fuses	Amps	Colour
714101	-	1	Black
714102	714152	2	Grey
714103	714153	3	Violet
714104	714154	4	Pink
714105	714155	5	Tan
714107	714157	7.5	Brown
714110	714160	10	Red
714115	714165	15	Blue
714120	714170	20	Yellow
714125	714175	25	Natural
714130	714180	30	Green
-	714185	35	Turquoise
714140	714190	40	Orange

### Inline Blade Fuse Holders with LED Indicator

The fuse holder features an integrated LED bulb to indicate that the fuse has blown, as well as a lid to prevent water ingress.

Part no.	Max. amps	Cable conductor mm <sup>2</sup>
714071	20	2
714072	30	3



714054



714058



714012

### Blade Fuse Boxes

- Black polycarbonate fuse box body
- Clear snap on lid
- 20 amps per fuse

Part no.	Number of blade fuses	Dimensions mm l x w x d
714054	4	79 x 26 x 36
714056	6	100 x 26 x 36
714058	8	115 x 26 x 36
714059	10	140 x 29 x 36

Part no.	Number of blade fuses	Dimensions mm l x w x d
714006	6	125 x 85 x 40
714012	12	165 x 85 x 40

### With LED Indicator

- Each fuse has a separate red LED light indicator which displays when a fuse has blown
- Each fuse has a 6.3mm male blade terminal and there is a single 5mm positive power input stud which feeds each of the blade fuses.



714076

Part no.	Number of fuses	Dimensions mm h x w x d
714074	4	35 x 45 x 85
714076	6	35 x 65 x 85
714079	10	35 x 95 x 85

### Blade Fuse Assortment Box

ASAP Electrical assortment box containing a range of blade fuses. There are 8 different varieties of fuse, equalling 130 terminals in total.

Please see website for full list of included fuses at [www.asap-supplies.com](http://www.asap-supplies.com)



712081

### Inline Blade Fuse Holder

714062

Inline splash proof fuse holder.

This fuse holder is suitable for standard blade fuses. Connections can be crimped to flyleads. 30 amp maximum.



714062

### Blade Fuse Holder

714086

ASAP Electrical 6-way blade fuse holder to hold up to 6 individual blade fuses, including LED fuses. The fuse holder features a transparent screw down cover to prevent water ingress. This fuse box contains 2 positive circuits, 1 negative circuit and can take a maximum of 30 amps per circuit and 100 amps per box. The blade fuse holder measures 55mm high, 93mm wide and 123mm long.



714086



## Midi Fuses and Holders

### Midi Fuses

Midi fuses are suitable for heavy load applications. These midi fuses feature fixing holes suitable for 5mm studs.

Part no.	Amps	Fuse colour	Hole centre mm	Overall length mm	Overall width mm
714360	40	Green	30	40	10
714361	50	Red	30	40	10
714362	60	Yellow	30	40	10
714363	70	Brown	30	40	10
714364	80	White	30	40	10
714366	100	Blue	30	40	10
714367	125	Pink	30	40	10
714368	150	Black	30	40	10



714360



714364



714368

### Midi Fuse Holder

714369

Individual fuse holder, accepts midi fuses or strip fuses. The cable connections are made using the 2 x 5 mm studs. Maximum cable size for this unit is 16mm<sup>2</sup>.



714369



## Mega Fuses

Mega fuses are suitable for heavy load applications. These mega fuses feature fixing holes suitable for 8mm studs.

Part no.	Amps	Fuse colour	Hole centre mm	Overall length mm	Width mm
714372	100	Yellow	51	69	19
714373	125	Green	51	69	19
714374	150	Orange	51	69	19
714375	175	White	51	69	19
714376	200	Blue	51	69	19
714377	225	Light brown	51	69	19
714378	250	Pink	51	69	19
714371	300	Grey	51	69	19
714380	400	Violet	51	69	19
714370	500	Dark brown	51	69	19



## ANL Fuses

ANL fuses are used for general cable protection, providing a 'medium / slow blow' (around 1 second) protection. Fixing holes suitable for 8mm (5/16") studs.

Please check carefully that the wiring is capable of the intended load, and that the fuse is capable of protecting the wiring.

Generally the fuse rating should not exceed 1.5 times the amp rating of the wiring cable. If in doubt, please check with a qualified and competent technician.

Part no.	Fuse	Connection Studs
714430	50	5/16"
714432	100	5/16"
714434	130	5/16"
714436	150	5/16"
714438	200	5/16"
714440	250	5/16"
714442	300	5/16"
714444	325	5/16"
714446	400	5/16"
714450	500	5/16"



## Mega Fuse Holders

Part no.	Colour
729371	Black
729372	Red



## ANL Fuse Holders

Part no.	Colour
729341	Black
729342	Red



## Power Sockets

Part no.	Description
715640	With cover
715645	Stainless steel with cover
715646	Surface mount white
715647	Surface mount black



## Cigarette Lighters

Part no.	Volts	Illuminated
715612	12V	No
715613	12V	Yes



## Shaver Sockets

Domestic two pin shaver socket for use with electric razor plugs.

Part no.	Voltage	Maximum amps
715112	12V	20A
715124	24V	20A



## DIN Plugs and Sockets



Part no.	Mount	Fits diameter hole mm	Max. amps	Cover
715650	Panel	16	16	Yes
715652	Surface	16	16	Yes



**715654**  
Plug to fit the above sockets



## Plastic Waterproof Deck Plug & Socket

Plastic deck plug and socket combinations. These are waterproof and feature a protective cap which is joined to the mounting base.

Part no.	Amps	Pins	Base diameter mm
715822	8A	2	40
715823	8A	3	40
715824	8A	4	40
715852	15A	2	49
715853	15A	3	49
715854	15A	4	49



### 715641

12V cigarette light type power plug. Black polycarbonate body. Integral fuse and LED activation light. When used with **715640** socket, a watertight collar and lock in system helps prevents water ingress and unwanted broken connection. 3 amps, 250W.



### 715642

Cigarette lighter or power splitter with LED light (2 sockets). Plug fits into standard cigarette lighter / power socket. Provides a double socket connection. Made from black plastic with LED activation light.



### ASAP ELECTRICAL USB Sockets



- 12V / 24V input voltage
- 5V output voltage

Part no.	Description	Amps	Height mm	Width mm	Depth mm
715661	Double USB socket, mounting with rear nut & panel	2 x 2.1A	43.1	-	-
715662	Lighter plug & double USB with panel	2 x 2.1A	45	105	51.2 (socket)
715663	USB plug & body for flat mounting	2.1	-	53.1	79.1
715664	Lighter plug & double USB & body for flat mounting	2 x 2.1A	-	91.8	83.2



### ASAP ELECTRICAL Double USB Socket Plug for Cigarette Lighters

#### 715669

Cigarette lighter plug accessory featuring two 2.5 Amp USB ports. This twin USB socket is suitable for 12 volt and 24 volt electrical systems and is fused for protection.

### SCANSTRUT Waterproof Dual USB Charging Socket



- Internal electrics anti-corrosion protected
- Easy installation
- Charge up to 2 devices at a time
- 12V & 24V input voltage
- 5V (+/-5%) output voltage

Part no.	Amps	Cut out dimensions
715498	1A & 2.1A	29mm / 1-1/8" diameter

### ASAP ELECTRICAL Waterproof Deck Plugs and Sockets



Plastic plug and socket	Metal plug and socket	Socket with plastic cap	Plug only	Amps	Pins
715232	715332	715242	715252	3A	2
715233	715333	715243	715253	3A	3
715234	715334	-	715254	3A	4
715272	715372	715282	715292	7A	2
715273	715373	715283	715293	7A	3
715274	715374	-	715294	7A	4

### ASAP ELECTRICAL Chromed Brass Cable Glands

- Constructed from chrome plated brass
- Allows electrical cables, as well as other types of cable, to pass through bulkheads or onto the deck
- Feature a sealing ring to act as a watertight seal around the cable
- 3 bolt fixing base



Part no.	Cable diameter mm	Base diameter mm
715406	6	32
715408	8	32
715410	10	35
715412	12	38
715419	19	50

### ASAP ELECTRICAL Non-Metallic Cable Glands

- Constructed from black plastic (nylon)
- Allows electrical cables, as well as other types of cable, to pass through bulkheads or onto the deck
- Feature a sealing ring to act as a watertight seal around the cable
- 4 bolt fixing base



Part no.	Cable diameter mm	Base diameter mm	Overall height mm
715454	4-8	48	33
715456	6-12	51	36

## SCANSTRUT Cable Seals

Scanstrut waterproof through bulkhead seals for routing multiple electrical cables.

- Waterproof IPX6 and IPX7 approved
- Made from high strength nylon
- Easy to install by a single person from one side of the bulkhead

Part no.	Suitability
715493	4 cables of 16mm diameter
715494	10 cables of 7mm diameter



715493



More Scanstrut deck seals available, including plastic and metal cable glands and multi deck seal. Please see Deck, Fittings & Hardware section, page 16.



## Galvanic Isolation Blockers

The WhisperPower galvanic isolation blocker eliminates the potential difference between boats and the shore, preventing galvanic action caused by the different metals used.

Part no.	Maximum amps	Dimensions mm h x w x d
WP 60110140	16A	60 x 120 x 200
WP 60110150	32A	63 x 164 x 235



WP 60110140

For alarms and detection probes, please see Fuel section, page 146.



301333

301341

QUALITY BRANDED  
PRODUCTS



## Non-Tinned Cable

Thin wall marine cables are used by many due to their high performance in comparison to the older style, thick wall PVC cables. Non-tinned is an excellent all round for cable and harnessing.

- Reduced insulation gives considerable weight savings especially in large harnesses
- Hard grade PVC insulation offers good resistance to abrasion and cut through
- Suitable for temperatures from -40°C to +105°C
- Good resistance to petrol, diesel, lubricating oils, diluted acids and moisture
- Maximum voltage 60V, suitable for 12V and 24V systems
- Manufactured in accordance with ISO6722 part 4 : 1993 (Class B)
- Plain copper conductors - PVC insulated

## Tinned Cable

The tinning process fills the voids between conductors leaving no air space for condensation to accumulate. Inner conductors are constructed from finely stranded tinned plated copper and are coated to allow for easy removal of the jacket when required. Your first choice for demanding applications.

- Tinned copper conductors - hard grade PVC insulation
- Temperature rating: -40°C to +105°C
- Maximum voltage 60V
- Good resistance to petrol, diesel, lubricating oil and diluted acid
- Manufactured in accordance with ISO6722 : 2006 (Class B)

### Sheathing Colours



### Tinned and Non-Tinned Cable Selection



A = Black



B = Blue



C = Brown



D = Green



E = Grey



F = Light green



G = Orange



H = Pink



J = Purple



K = Red



L = White



M = Yellow

Suffix your chosen part number with the corresponding letter shown. As a rule, the thinner the cable, the more colours available.

**How to order** - Select which cable you require for your application, then choose a sheathing colour from the list from the different colours down the side of the page. Add the letter to the end for the colour you require (e.g. 734143-A = Black)

Please note

Some colours are not available on certain sizes of cable.

Size mm <sup>2</sup>	Conductor specifications mm	Inner colours	Non-tinned			Tinned		Crimp colour
			30 metres	50 metres	100 metres	30 metres	50 metres	
Single Core								
0.5	16/0.2	-	-	734105-	734109-	-	-	Red
1	32/0.2	-	-	734115-	734119-	-	-	Red
1.5	21/0.3	-	-	734125-	734129-	-	748115-	Red or blue
2	28/0.3	-	-	734135-	734139-	-	-	Blue
2.5	35/0.3	-	-	-	-	-	748125-	Blue
3	44/0.3	-	734143-	-	734149-	-	-	Blue or yellow
4	56/0.3	-	734153-	-	734159-	748153-	-	Yellow
4.5	65/0.3	-	734163-	-	734169-	-	-	Yellow
6	84/0.3	-	734173-	-	-	748163-	-	Yellow
8.5	120/0.3	-	734183-	-	-	-	-	Eye terminal
10.0	120/0.3	-	734193-	-	-	748193-	-	Eye terminal
2 Core (Round)								
1	2 x 32/0.2	Black and red	734243-	-	734249-	-	-	Red
1.5	2 x 21/0.3	Black and red	734253-	-	734259-	748253-	-	Red or blue
2	2 x 28/0.3	Black and red	734263-	-	734269-	748263-	-	Blue
2.5	2 x 35/0.3	Black and red	734273-	-	734279-	-	-	Blue
2 Core (Flat)								
0.5	16/0.2	Black and red	734203-	-	734209-	-	-	Red
1	2 x 32/0.2	Black and red	734213-	-	734219-	-	-	Red
1.5	2 x 21/0.3	Black and red	-	-	-	748213-	-	Red or blue
2	2 x 28/0.3	Black and red	734233-	-	734239-	-	-	Blue
2.5	2 x 35/0.3	Black and red	-	-	-	748223-	-	Blue
3 Core (Round)								
1	3 x 32/0.2	Red, black and green	734313-	-	734319-	-	-	Red
1.5	3 x 21/0.3	Red, black and green	734323-	-	-	748313-	-	Red or blue
2	3 x 28/0.3	Red, black and green	734333-	-	-	-	-	Blue
4 Core (Round)								
1	4 x 32/0.2	Red, black, green and white	734413-	-	-	-	-	Red
5 Core (Round)								
1	5 x 32/0.2	Brown, green, red, white and yellow	734513-	-	-	-	-	Red
7 Core (Round)								
6 x 1	6 x 32/0.2	Black, red, green, yellow, brown, white and blue	734713-	-	-	-	-	Red
1 x 2	1 x 28/0.3							Blue

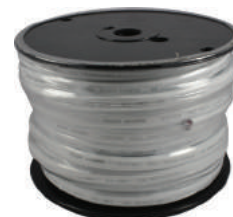


## Twin Core Flat Cable - AWG

Our UL approved twin core flat cable is designed for boats and the marine environment. The outer jacket is extruded onto the tinned copper wire conductors, filling the voids to make the wiring cable robust and durable, yet easy to strip.

- Colour: White
- Inner colours: black and red
- 30 metre coil

Part no.	AWG	Size mm <sup>2</sup>	Conductor specifications mm
733213-L	16	1.31	65/0.10
733223-L	14	2.08	41/0.10
733243-L	12	3.31	65/0.10
733263-L	10	5.26	105/0.10



733223-L



## Standard Battery Starter / Winch Cable

- Flexible
- Red (add -K) or black (add-A) sheath available
- Tinned copper temperature rating -30°C to +70°C
- Non-tinned -15°C to +70°C

mm <sup>2</sup>	Conductor size mm	Tinned	Non-tinned		
		10 metre	10 metre	30 metre	Per metre
16	203/0.30	748901-	-	-	-
25	322/0.30	748911-	712911-	712913-	712910-
35	455/0.30	748921-	-	-	-
40	315/0.40	-	712921-	712923-	712920-
50	637/0.30	748931-	-	-	-
60	475/0.40	-	712931-	712933-	712930-
70	912/0.30	748941-	712941-	-	-



712911-A



712911-K



## Four Core Tinned Cable

733411-E

- Can be used with Lectrotab units
- 4 core
- UL listed
- 14 AWG
- 10 metre coil
- For Lectrotab trim tabs, see page 260.



733413-E

## Non-tinned Cable Standard Reference Table

Conductor cross section mm <sup>2</sup>	Conductor specification mm <sup>2</sup>	Nominal current rating (amps)	Maximum overall diameter of cable mm	Maximum resistance per metre at 20°C (ohms)
0.5	16/0.2	11	1.7	0.0371
1	32/0.2	16.5	2.1	0.0185
1.5	21/0.3	21	2.4	0.0127
2	28/0.3	25	2.8	0.00942
2.5	35/0.3	29	3	0.00760
3	44/0.3	33	3.4	0.00600
4	56/0.3	39	3.8	0.00471
4.5	65/0.3	42	4.1	0.00406
6	84/0.3	50	4.3	0.00314
7	97/0.3	57	5.1	0.00279
8.5	120/0.3	63	5.6	0.00220
10	80/0.4	70	6	0.00182
25	196/0.4	170	9.8	0.0008
40	315/0.4	300	12.2	0.0005
60	475/0.4	415	14.6	0.0003

## Tinned Cable Standard Reference Table

Conductor cross section mm <sup>2</sup>	Conductor specification mm <sup>2</sup>	Nominal current rating (amps)	Maximum overall diameter of cable mm	Maximum resistance per metre at 20°C (ohms)
1.5	21/0.3	21	2.4	0.013
2.5	35/0.3	29	3	0.00782
4	56/0.3	39	3.7	0.00485
6	84/0.3	50	4.3	0.00323
10	80/0.4	70	6	0.00185
16	203/0.3	110	8.3	0.00126
25	322/0.3	170	10.1	0.000792
35	455/0.3	240	11.8	0.000564
50	637/0.3	345	13.3	0.000403
70	912/0.3	485	15.5	0.000281



## Cable Stripper, Cutter & Terminal Crimping Tool

The cable stripper is suitable for use with cables between 0.5mm<sup>2</sup> and 6mm<sup>2</sup> and also doubles up as a crimping tool for non insulated and pre insulated crimp terminals.



712015



## Heavy Duty Copper Cable Cutters

These cable cutters are suitable for cutting through copper cables up to 70mm<sup>2</sup> in size. The tool measures 235mm in length.



712017



## Universal Pre-Insulated Crimp Terminals



Ring



Fork end



Male bullet



Female bullet



Male spade



Female spade

Male / Female  
Piggyback

Female spade

Straight  
connectorSelf strip  
scotch lock

Hole / blade size mm	Style	Pack of	Red sleeve For conductors 9 / 0.3 to 21 / 0.3mm (0.5 to 1.5mm <sup>2</sup> )	Blue sleeve For conductors 21 / 0.3mm to 44 / 0.03mm (1.5 to 2.5mm <sup>2</sup> )	Yellow sleeve For conductors 44 / 0.3mm to 84 / 0.3mm (3.0 to 6.0mm <sup>2</sup> )
3.2	Ring	50	713002	713103	-
3.7	Ring	50	713004	713104	-
4.3	Ring	50	713006	713106	713206
5.3	Ring	50	713008	713108	713208
6.4	Ring	50	713010	713110	713210
8.4	Ring	50	713012	713112	713212
10.5	Ring	50	713014	713114	713214
13.0	Ring	50	-	-	713216
3.7	Fork end	50	713022	713122	-
4.3	Fork end	50	-	713124	-
5.3	Fork end	50	713026	713126	-
6.4	Fork end	50	-	713128	713228
1.9	Male bullet	50	713050	713150	713250
4.0	Male bullet	50	713053	713153	-
5.0	Male bullet	50	-	713157	713257
4.0	Female bullet	50	713063	713163	-
5.0	Female bullet	50	-	713167	713267
6.3 x 0.8	Male spade	50	713079	713179	713279
2.8 x 0.8	Female spade	50	713083	-	-
4.8 x 0.5	Female spade	50	713084	713185	-
6.3 x 0.8	Female spade	50	713089	713189	713289
8.3 x 0.8	Female spade	50	-	713191	-
9.5 x 1.1	Female spade	50	-	-	713290
6.3 x 0.8	Male / female piggyback	50	713092	713193	-
4.8 x 0.5	Female spade (Fully insulated)	50	713095	713195	-
6.3 x 0.8	Female spade (Fully insulated)	50	713097	713197	713297
Straight connector		50	713040	713140	713240
Self strip scotch lock terminals		25	713391	713393	713395
Self strip scotch lock terminals		100	713390	713392	713394



## Terminal Eye Ends For Battery Cable

Straight eye terminals with inspection hole. Made from tinned copper tube terminals, suitable for soldering or crimping.



713703



713704



713715



713726



713808



713819

Suitable for battery cable sizes mm <sup>2</sup>	With eye for 6mm stud	With eye for 8mm stud	With eye for 10mm stud	With eye for 12mm stud	Red cover Straight	Black cover Straight
6	713763	713764	-	-	VTE-212E1V02	VTE-212E1V14
10	713773	713774	713775	-	VTE-212E1V02	VTE-212E1V14
16	713783	713784	713785	-	VTE-212E1V02	VTE-212E1V14
25	713703	713704	713705	713706	713808	713809
35	713713	713714	713715	713716	713818	713819
40-50	713723	713724	713725	713726	713828	713829
60-70	-	713734	713735	713736	713838	713839
95	-	-	713745	713746	VTE-228E3V02	VTE-230E3V14
120	-	-	713755	713756	VTE-232N4F02	VTE-232N4F14

## Pre Insulated Terminal Assortment Box

ASAP Electrical assortment box containing a range of pre insulated electrical crimp terminals. There are 8 different varieties of terminal, equalling 120 terminals in total.

Please see website for full list of included crimp terminals at [www.asap-supplies.com](http://www.asap-supplies.com)



712082

## Heat Shrink Terminal Assortment Box

ASAP Electrical assortment box containing a range of heat shrink pre insulated electrical terminals. There are 13 different varieties of terminal, equalling 80 terminals in total.

Please see website for full list of included terminals at [www.asap-supplies.com](http://www.asap-supplies.com)



712080



## Heavy Duty Crimping Tool

ASAP Electrical crimping tool is suitable for use with all pre insulated terminals in red, blue and yellow. The ratchet design ensures that the correct crimping pressure is applied to the terminal before it is released.



712012



## Battery Terminals and Covers

Hex or wingnut for cable connection.

Positive	Negative	Type	Covers	Cover red (+)	Cover black (-)
713401	713402	8mm + hex nut	Single cable entry 61/090	713868	713869
713441	713442	8mm + wingnut	Single cable entry 61/113	713864	713865
713403	713404	10mm + hex nut	Multi cable entry	713878	713879



713401  
Hex nut



713403  
Wingnut



713869



713868

Solderless terminals.

Positive	Negative	For cable mm <sup>2</sup>	Cover left hand cable entry Red (+)	Cover right hand cable entry Red (+)	Cover left hand cable entry Black (-)	Cover right hand cable entry Black (-)
713411	713412	Up to 40	713886	713888	713887	713889
713421	713422	Up to 60	713886	713888	713887	713889
713431	713432	Up to 95	713886	713888	713887	713889



713422



713889



713888



*Don't forget your battery terminals. Industry standards state that each ungrounded terminal or stud that is continually energised must have a boot, cap, cover or shield that prevents accidental short circuiting of the terminals or studs. ASAP Electrical terminal insulators are a safe and cost effective way to adhere to these standards.*

Please contact us or visit [www.asap-supplies.com](http://www.asap-supplies.com) for the full range we can offer.



## Superseal Cable Connectors

Specifically designed to meet the safety and reliability needs required in electrical connections. Fulfils all the requirements prescribed by various automotive and industrial standards, making it suitable for marine use as well as automotive, agricultural and machinery applications.

- Comprises a housing as well as terminals and seals
- Features a glass filled polyamide housing and lock
- Includes silicone rubber seals for wire entry
- Resistant to ozone, salts, gasoline, diesel, brake fluid detergents, anti-freeze coolant, transmission gear lubricant, motor oil and other harmful materials
- Has a secondary lock which ensures complete insertion of the contact and prevents the housing slipping out of the connector
- Includes a device which allows it to be safely and easily fastened to a panel to secure in place
- The seals shape make cable insertion into the cavity very easy and a collar in the crimping area provides excellent strain relief on the terminals
- Lanceless contacts and a double contact spring at the contact receptacle to ensure high contact force with low insertion force
- Wire size range: 0.5 - 1.5mm<sup>2</sup>
- Temperature range: -40°C to +125°C
- Waterproof rating: IP 67

Number of positions	Plug housing		Height mm	Width mm	Depth mm
	Male	Female			
1	713500	713501	19	9.3	28
2	713502	713503	19	15.3	28
3	713504	713505	19	21.3	28
4	713506	713507	19	27.3	28
5	713508	713509	19	33.3	28
6	713510	713511	19	39.3	28



713503



713510



712013  
Superseal crimping tool

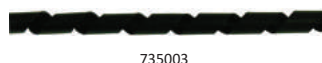


## Wiring Harness Sleeving

Suitable for protecting electrical wiring harnesses against abrasions to prolong life and performance.

### Black Spiral

- 25 metre length of polythene black wiring harness sleeving
- Spiral style
- Quick and easy to fit
- Suitable for protecting electrical wiring harnesses against abrasions to prolong life and performance.
- Can be adjusted or reused when fitted
- Operating temperature range: -60°C to 85°C



Part no.	Bundle diameter mm	O.D. mm
735002	5-30	6.4
735003	12-50	12.7

### Black Convuluted

- 10 metre length of black nylon wiring harness sleeving
- Convuluted style
- Resistant to petrol (gasoline), oil and water
- Suitable for protecting electrical wiring harnesses against abrasions to prolong life and performance
- Self extinguishing
- Operating temperature range: -40°C to +120°C



Part no.	I.D. mm	O.D. mm
735030	6.9	10
735031	10.1	13
735032	11.8	16
735033	14.5	18.5
735034	16.9	21.2
735035	20.1	24.5
735036	23.5	28.3



## Heat Shrink Wire Sleeving

Individual lengths of flexible polyolefin wire sleeving which shrinks in size when exposed to heat. The sleeves are flame retardant to UL224 and are designed to protect wire bundles from damage, as well as providing a colour coded electrical insulation. These heat shrink harness pieces have a shrink ratio of 2:1.

- Shrink temperature: 120°C
- Operating temperature: -40°C to +135°C



735015



735025

Red	Black	I.D. mm before / after heating	Wall thickness (after heating) mm	Pack size
-	735021	2.4 / 1.2	0.5	25 x 150mm pieces
735012	735022	3.2 / 1.6	0.5	25 x 150mm pieces
735013	735023	4.8 / 2.4	0.5	20 x 150mm pieces
735014	735024	6.4 / 3.2	0.65	15 x 150mm pieces
735015	735025	9.5 / 4.8	0.65	15 x 150mm pieces
735016	735026	12.7 / 6.4	0.65	10 x 150mm pieces
735017	735027	19.1 / 9.5	0.75	7 x 150mm pieces



712083



## Heat Shrink Sleeving Assortment Box

Assortment box containing a range of heat shrink harness lengths. There are 8 different varieties of harness, equalling 36 lengths in total.

Please see website for full list of included heat shrink lengths at [www.asap-supplies.com](http://www.asap-supplies.com)



## Self-Amalgamating Tape

This silicone rubber tape is suitable for electrical insulation, hose and pipe repairs, colour coding, cable or wire bundling and general abrasion protection.

- Forms a stronger, seamless layer which is waterproof
- Perfect for marine applications
- Non-flammable
- Used for emergency repair of low pressure pipes and hoses
- Includes an interleaving layer to prevent amalgamation in the roll
- Can also be used in a wide range of other general applications



720961

Part no.	Tape width mm	Tape length meters	Tape colour	Operating temperature
720961	25	10	Black	-40 to +90°C
720963	25	10	White	-40 to +90°C



## Self Adhesive PVC Insulation Tape

- Primarily designed for insulation, repairs, colour coding, cable or wire bundling and general abrasion protection
- Self extinguishing
- Can also be used in a wide range of other general applications



720952

Part no.	Tape width mm	Tape length meters	Tape colour	Operating temperature
720951	19	20	Black	0 to +90°C
720952	19	20	Red	0 to +90°C



## Cable Connector Strips

Cable connection strips are made from transparent nylon. They feature steel screws and inserts as well as providing insulation and protection for the cables.

Part no.	Rating amps	For cable size mm <sup>2</sup>	Connections	Length mm	Width mm
714505	5	2.5	12	95	14
714510	10	4-6	12	115	14
714525	25	10	12	127	25
714550	50	16	12	178	25



714525



## Junction Boxes

Part no.	Inputs	Length mm	Width mm	Height mm	Type
714500	3	76	127	45	Splash proof
714501	6	140	100	53	Splash proof
714502	8	110	130	40	Weatherproof
714503	10 x 8 way	160	95	58	Weatherproof



714501



714500



714502



714503



## Crocodile Clips

- Ideal for portable equipment
- Available in 3 sizes
- Plated steel construction



714950

Part no.	Amps	Length mm
714905	5	40
714925	25	75
714950	50	95



## Cable Ties

- Black plastic cable ties
- Suitable for use with wires, cables, hoses etc.
- Available with various strength ratings and sizes
- Packs of 100

Part no.	Length mm	Width mm	Strength kg
715001	100	2.5	8
715003	140	3.6	18
715005	160	4.8	22
715007	204	4.8	22
715009	200	3.6	18
715011	300	7.6	54
715013	300	4.8	22
715015	370	4.8	22
715017	368	7.6	54



715005

# Don't forget!

Order stock items by  
3:30pm for same day  
despatch, Monday to  
Friday

Visit our website for  
more details



## Cable Tie Mounts

- Black mounting base
- Used for securing up to 4 cable ties to a surface or bulkhead
- Self adhesive sticky fixing base
- Also has a hole for a self tapping screw in the centre for added strengthening
- Pack of 25

Part no.	Strap size mm
715039	3.6
715040	4.8



715039

## Busbars, Power Posts and Connectors

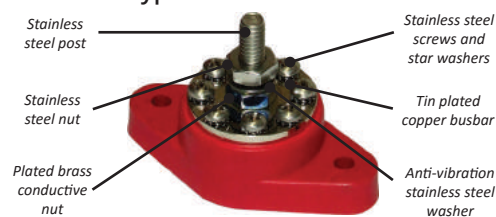
Need to make the right connection? We have chosen only tried and tested components for our ASAP Electrical range - products which we have been selling since 1989. From simple connector strips to power posts and busbars, we hope you will find the power distribution product you need to complete your electrical installation.

Products in our ASAP Electrical range utilise 'Blue-Dot' technology and use a combination of metallic materials, such as nickel plated copper, tin plated brass and stainless steel.

These highly conductive materials form the electrical path, whilst stainless steel is used where extra mechanical strength is required (e.g. the last securing nut which holds the complete assembly together).

They are available colour coded to match your circuit; red for positive and black for negative.

### Typical Construction



729215



### Power Distribution Posts

Supplied with insulating cover and disk to comply with ISO regulations regarding continuously energised terminals.

- Stainless steel connection post
- Glass filled nylon base
- 8 screw distribution plate

Negative	Positive	Connection post mm
729211	729212	6
729213	729214	8
729215	729216	10



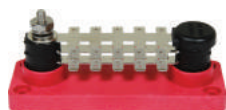
729261



### Power Distribution Busbars With Cover and Boots

- Features 12 x 15 amp screw connection points and 1 x 1/4" post
- Stainless steel posts, screws and hex nuts
- Nickel plated brass base connection plate
- Glass filled black nylon base
- Supplied with a plastic cover and insulation boot to meet ISO standards for protection of continuously energised terminals

Part no.	Type	Maximum current	Posts	Connection points	Mounting hole centres mm
729261	Negative	240A	1 x 1/4"	12 x 15A	118.4
729262	Positive	240A	1 x 1/4"	12 x 15A	118.4



729286



729289



### Tab Type Busbars

These "push-on" terminal busbar / power distribution points greatly increase production speed and reduce labour costs. They provide a neat and simple solution for negative or positive cable distribution.

- Maximum amperage: 55A @ 12V per tier, 20A per connection
  - Maximum voltage: 48V DC
  - Glass filled nylon base
  - Single 1/4" (6mm) stainless steel connection post with nuts
  - Single nickel plated brass tab plate features 10, 20 or 30 6.3mm male spade tabs
- Order cover kit to meet ISO standards for protection of continuously energised terminals

10 point	20 point	30 point	Type	Post size	Cover	Yellow cover
729281	729283	729285	Negative	1 x 1/4"	729287	729289
729282	729284	729286	Positive	1 x 1/4"	729288	729289



729251



729259



### 10 Point Busbar

- Busbar / distribution point for DC systems up to 48V DC.
- 10 x 15amp (max) screw connection points and 2 x 1/4" posts
- Nickel plated brass contact plates
- Stainless posts, screws and hex nuts
- Glass filled black nylon base

Order cover to meet ISO standards for protection of continuously energised terminals

Part no.	Type	Maximum load amps	Intermittent amps	Posts	Mounting hole centres mm	Yellow cover
729251	Negative	150A	20A	2 x 1/4"	131.8	729259
729252	Positive	150A	20A	2 x 1/4"	131.8	729259



## 4 Point Power Distribution Busbar

ASAP Electrical 4 point busbar for DC electrical systems up to 48V DC.

- Glass filled base
- Stainless steel posts and hex nuts
- Tinned brass connecting components for maximum performance and reliability

Order cover to meet ISO standards for protection of continuously energised terminals.

Part no.	Type	Maximum load amps	Posts	Mounting hole centres mm	Clear cover
729241	Negative	210	3 x 5/16" 1 x 1/4"	118.4	729249
729242	Positive	210	3 x 5/16" 1 x 1/4"	118.4	729249
729243	Negative	210	3 x 3/8" 1 x 1/4"	118.4	729249
729244	Positive	210	3 x 3/8" 1 x 1/4"	118.4	729249



729243



729249



## Single Pole Busbar

ASAP Electrical single pole busbar for DC electrical systems up to 48V DC.

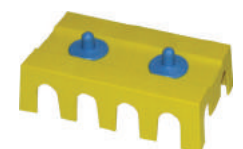
- Two rows of 4 x 5/16" and 4 x 3/8" post terminals with 3 additional 20 amp 4mm screw connectors on each row
- Stainless steel posts, screws and hex nuts
- Tinned brass connecting components for maximum performance and reliability

Order cover to meet ISO standards for protection of continuously energised terminals.

Part no.	Type	Maximum load amps	Size posts	Mounting holes centres mm	Yellow cover
729221	Negative	250A	5/16"	124.5	729229
729224	Positive	250A	3/8"	124.5	729229



729221



729229



## Dual Busbars

ASAP Electrical dual pole busbar for DC electrical systems up to 48V DC.

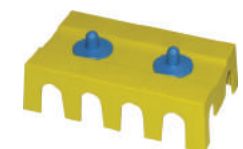
- Features 4 x 5/16" negative posts with 3 additional 20 amp 4mm screw connections and 4 x 3/8" positive posts (colour coded red) with 3 additional 20 amp screw point connections
- Stainless posts, screws and hex nuts
- Tinned brass connecting components for maximum performance and reliability

Order cover to meet ISO standards for protection of continuously energised terminals.

Part no.	Type	Maximum load amps	Posts	Mounting holes centres mm	Yellow cover
729220	Negative + positive	250A	4 x 5/16" 4 x 3/8"	124.5	729229



729220



729229



## Heavy Duty 3 Point Busbar

ASAP Electrical hi-amp busbar / distribution point for up to 32V DC electrical systems.

- 2 x 5/16" posts and one central 3/8" post
- Stainless steel posts, plate, screws and hex nuts
- Nickel plated brass connection plate
- Glass filled nylon base

Order a cover to meet ISO standards for protection of continuously energised terminals.

Part no.	Type	Maximum load amps	Posts	Mounting hole centres mm	Cover
729271	Negative	750A	2 x 5/16" 1 x 3/8"	101.7	729277
729272	Positive	750A	2 x 5/16" 1 x 3/8"	101.7	729278



729272



729277

## ASAP ELECTRICAL Jump Start Power Connectors

Have you ever had to jump start an engine? If so, you will know that this generally involves carrying a heavy battery into the engine room, often not the easiest or simplest of places to access.

These ingenious devices does away with that and can be positioned for convenience. It comes as a flush mount kit, with an adhesive drilling template decal, and is fitted with colour coded safety cover caps too.



729004



729003

Part no.	Mount
729003	Flush
729004	Bracket

A battery charger / jump start device can be connected here, thereby reducing the wiring required for a charging connection. As a bonus, should you need to use a portable battery powered device (such as a refuelling pump), the same convenience is there again, as you can simply connect the accessory's crocodile clips to the power connector posts rather than having to gain access to the battery.

## ASAP ELECTRICAL Power Bushings

ASAP Electrical through panel, weatherproof power bushing, the best way to pass power leads through bulkheads / partitions / panels.

Insulator body is made of glass filled nylon, power stud is threaded and made of brass.



729022

Power stud thread 3/8"	Power stud thread 1/2"	Type	Panel thickness mm
729011	729021	Negative	0-3
729012	729022	Positive	0-3
729013	-	Negative	3-6
729014	-	Positive	3-6
729015	729025	Negative	6-9.5
729016	729026	Positive	6-9.5



725100



725102

## ASAP ELECTRICAL Plastic Battery Boxes With Coloured Lids

Although we do not sell batteries, we are able to offer battery boxes to suit most sizes of small to medium size marine starting and leisure batteries.

Part no.	Colour lid	Outside dimensions l x w x h mm	Inside dimensions l x w x h mm
725100	Blue	435 x 255 x 265	375 x 195 x 220
725101	Red	375 x 220 x 255	330 x 185 x 240
725102*	Yellow	465 x 240 x 275	405 x 195 x 235

\* Supplied complete with removable partition to allow the fitting of varying battery sizes.



725104

## ASAP ELECTRICAL Plastic Battery Boxes

Plastic battery box with lid, strap and spare diaphragm. These battery boxes are ideal for boat starter batteries or domestic batteries.

Part no.	Length mm	Width mm	Height mm
725104	270	117	220



V-BATBOX108

## Vetus Plastic Battery Boxes

These Vetus plastic battery boxes are constructed from polypropylene, and specifically designed for batteries.

Part no.	Length mm	Width mm	Height mm
V-BATBOX108	330	175	240
V-BATBOXM	350	180	195
V-BATBOXL	354	180	250



# ENGINE SPARES & GEARBOXES

93-94

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84-85

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94-95

90-91

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CCV & CV Systems & Accessories

Drive Belts

Drive Plates

Engine & Gearbox Oil

Engine Expansion Tanks

Engine Mounts

Engine Spares

Gearbox Adaptor Plates

Gearbox Oil Coolers

Gearbox Pressure Gauge

Gearbox Spares & Accessories

Gearboxes

Generator Spares

Heat Exchanger Manifolds

Heat Exchangers

Manicoolers

Oil Coolers

Pressure Caps

Rubber End Caps

Sealants

Thermostat Housings

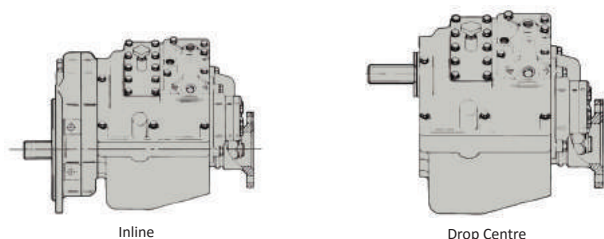
We are proud to hold one of the largest stocks for PRM marine gearboxes and gearbox spares, ready for same day despatch around the world.

PRM Marine gearboxes have a proven reliability on board commercial and leisure boats. Formally PRM Newage transmissions, they have established a worldwide reputation for quality, reliability and in-service performance which makes the PRM gearbox range the ideal choice for many marine applications.

The PRM Marine gearbox range is supported by a full factory spares backup and have a two year warranty. Whether your need is heavy duty commercial or sailing auxiliary, we can match the correct gearbox to your needs. When correctly matched to an engine and propeller, every transmission will provide smooth, quiet and trouble free operation for many years.

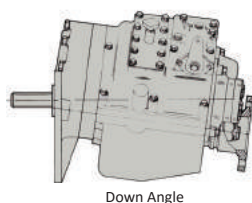
All PRM Marine gearboxes and spares are designed for maximum reliability over an extended service life. In the event of an emergency, hydraulic gearboxes can be mechanically locked into gear to get you home safely.

\*BW flange = Input shaft, spline, adaptor flange and mounting pads are as used on BorgWarner (Velvet Drive) and Paragon gearboxes.



Inline

Drop Centre



Down Angle



PRM-60D



PRM-90D

PRM 60 & 90 Mechanical Gearboxes			
PRM 60	PRM 90	Ratio	Shaft arrangement
PRM-60D1-5	-	1.5:1	Drop centre
PRM-60D2	PRM-90D2	2:1	Drop centre
PRM-60D2-5	PRM-90D2-5	2.5:1	Drop centre



PRM-125D

PRM 125 Mechanical Gearboxes		
PRM 125	Ratio	Shaft arrangement
PRM-125D2	2.04:1	Drop centre
PRM-125D2-5	2.50:1	Drop centre
PRM-125D3	2.94:1	Drop centre



PRM-150D3

PRM 150 Hydraulic Gearboxes		
Part no.	Ratio	Shaft arrangement
PRM-150D1-5	1.53:1	Drop centre
PRM-150D2	2.09:1	Drop centre
PRM-150D3	2.82:1	Drop centre

PRM 280 Hydraulic Gearboxes		
Part no.	Ratio	Shaft arrangement
PRM-280D2	2:1	Drop centre
PRM-280D3	3:1	Drop centre
PRM-280DP2*	2:1	Drop centre
PRM-280DP3*	3:1	Drop centre

\* Includes PTO 1:1

PRM 500 Hydraulic Gearboxes		
Part no.	Ratio	Shaft arrangement
PRM-500D1-5	1.459:1	Drop centre
PRM-500D2	1.935:1	Drop centre
PRM-500D2-5	2.565:1	Drop centre
PRM-500D3	2.904:1	Drop centre

PRM 750 Hydraulic Gearboxes		
Part no.	Ratio	Shaft arrangement
PRM-750A1	1.09:1	Down angle
PRM-750A1-5	1.459:1	Down angle
PRM-750A2	1.935:1	Down angle
PRM-750A2-5	2.565:1	Down angle
PRM-750A3	2.904:1	Down angle
PRM-750CB1	1.09:1	Inline BW flange*
PRM-750CB1-5	1.459:1	Inline BW flange*
PRM-750CB2	1.935:1	Inline BW flange*
PRM-750CB2-5	2.565:1	Inline BW flange*
PRM-750CB3	2.904:1	Inline BW flange*
PRM-750D1	1.09:1	Drop centre
PRM-750D1-5	1.459:1	Drop centre
PRM-750D2	1.935:1	Drop centre
PRM-750D2-5	2.565:1	Drop centre
PRM-750D3	2.904:1	Drop centre
PRM-750D4	3.952:1	Drop centre

PRM 1000 Hydraulic Gearboxes		
Part no.	Ratio	Shaft arrangement
PRM-1000A1-5	1.53:1	Down angle
PRM-1000A2	2.03:1	Down angle
PRM-1000A3	2.857:1	Down angle
PRM-1000D1-5	1.53:1	Drop centre
PRM-1000D2	2.03:1	Drop centre
PRM-1000D3	2.857:1	Drop centre
PRM-1000D4	4.00:1	Drop centre



PRM-280D2



PRM-500D2



PRM-750D3



PRM-1000D4

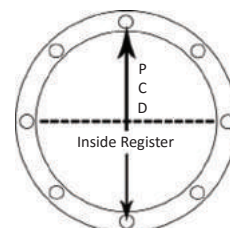


## Gearbox Adaptor Plates

We offer a range of SAE bell housing gearbox adaptor plates that will bolt to the engine and gearbox. We cater for many of today's most popular gearboxes and also offer a range of drive plates to suit, see pages 84-85.

### Engine bell housing to SAE standards

Below are the details you will need to determine the size of bell housing fitted to your engine.



\* PCD = Pitch Circle Diameter. This is determined as shown above.

SAE number	ID register mm	PCD of bolts	Number of bolts	Bolt size mm (inch)
2	447	466	12	10 (3/8")
3	409	428	12	10 (3/8")
4	362	381	12	10 (3/8")
5	314	333	8	10 (3/8")

Part no.	Model	Description
208551	MT4901S/A	Plate adapts SAE 5 to PRM 80, 120, 150
208580	MT8083S/A	Plate adapts PRM 80, 120, 150 to BorgWarner
208543	MT4902S/A	Plate adapts SAE 4 to PRM 150
208532	MT854S/A	Plate adapts SAE 3 to PRM 260
208542	MT1210S/A	Plate adapts SAE 4 to PRM 260
208585	MT1426S/A	Plate adapts PRM 260 to BorgWarner
208586	MT1563S/A	Plate adapts BorgWarner to PRM 500 & 750
208552	MT1209S/A	Plate adapts SAE 5 to PRM 260
208526	MT1212S/A	Plate adapts SAE 2 to PRM 500, 750
208536	MT1211S/A	Plate adapts SAE 3 to PRM 500, 750
208546	MT1216S/A	Plate adapts SAE 4 to PRM 500, 750
PRM-MT5030-KIT	MT5030-KIT	Plate adapts PRM 750 to BorgWarner Velvet Drive
208527	MT4587S/A	Plate adapts SAE 2 to PRM 1000*
208537	MT4588S/A	Plate adapts SAE 3 to PRM 1000*
PRM-MT4890S-A	MT4890S-A	Plate adapts SAE 2 to PRM 1000 Ratio 4:1
PRM-MT4891S-A	MT4891S-A	Plate adapts SAE 3 to PRM 1000 Ratio 4:1

\* Except for PRM1000 D4



## Gearbox Oil Coolers

These oil coolers are designed for transmission oil cooling using fresh or sea water as the coolant. The low pressure associated with transmission allows polyamide end caps to be used in place of the more expensive gunmetal end caps or the frail rubber caps normally found on traditional brass tube coolers.

Part no.	Oil circuit port size BSP	Water circuit connections mm	Dimensions l x w x h mm (without bracket)	For PRM gearbox models (Maximum power)
Gearbox Models 150 and 260				
PRM-GB50-LLN	1/2"	34	242 x 80 x 86	PRM 150D (58kW) PRM 260C / D (92kW) PRM 280 (replaces 260)
PRM-GB50-SSN	3/8"	28	242 x 80 x 86	
PRM-GB50-SLN	3/8"	34	242 x 80 x 86	
PRM-GB50-LSN	1/2"	28	242 x 80 x 86	
Gearbox Models 500 and 750				
PRM-GB60-SSN	3/8"	28	271 x 80 x 86	PRM 500A / D (130kW) PRM 750A / C / D (130kW)
PRM-GB60-SLN	3/8"	34	271 x 80 x 86	
PRM-GB60-LSN	1/2"	28	271 x 80 x 86	
PRM-GB60-LLN	1/2"	34	271 x 80 x 86	
Gearbox Models 500, 750, 1000				
PRM-GB120-LSN	1/2"	28	433 x 80 x 86	PRM 500A / D (130-170kW) PRM 750A / C / D (130-258kW) PRM 1000A / D (Up to 180kW)
PRM-GB120-LLN	1/2"	34	433 x 80 x 86	



PRM-GB60-SLN

### PRM-D16302210

Mounting bracket designed for the range of PRM GB series oil coolers. Sold singularly.

Please note: 2 brackets required to mount each cooler.



PRM-D16302210



## Pressure Gauge for PRM Gearboxes

### PRM-MT5036

Manual pressure gauge for direct fitting to the PRM gearbox



PRM-MT5036



## Marine Gearbox Spares

For all PRM spares not beginning with 1075\*\*, please use a prefix 'PRM-' in front of each part number. e.g. MT251 will be PRM-MT251. For spares for PRM 60, 90 and 280 please contact us on 01502 716993.



107510  
Seals, gasket and  
'O' ring kit



107520  
Clutch repair kit



107546  
Piston ring kit



PRM-MT251  
Input shaft  
(front) oil seal



PRM-MT252  
Output shaft  
(rear) oil seal



PRM-MT0035  
Oil filter  
blanking kit



PRM-MT0120  
Bearing  
shim kit



PRM-MT755  
Output  
coupling



PRM-CP1467  
Breather



PRM-MT0296-KIT  
Oil seal  
assembly

For PRM gearbox models	Seals, gaskets & O-ring kit	Clutch plate kit (1 ahead, 1 stern)	Piston ring kit	Input shaft (front) oil seal	Output shaft (rear) oil seal	Oil filter blanking kit	Bearing shim kit	Output coupling	Breather	Oil pump assembly
80, 120	107500	MT8098 Clutch cone only	-	0400286	0400407	-	MT0429	MT8099	-	-
100, 140, 160, 260	107510	107520*	107540	MT165	MT349	MT0035 (100+140 only)	MT0067 (160+260 only)	MT753	CP1467	MT0296-KIT (160+260 only)
101	107510	107520*	107540	MT165	MT349	MT0035	-	Part of output shaft	CP1467	-
Delta	107512	107522	107542	Kit only	Kit only	-	-	Part of output shaft	-	-
150	107519	107529	107542	0400354	0400454	-	-	Part of output shaft	-	-
175, 250	107515	-	107546	MT251	MT252	MT0035	-	MT755	CP1467	-
265	107515	-	107546	MT251	MT252	MT0035	-	MT755	CP1467	-
310	107515	107525	107546	MT251	MT252	MT0035	MT0068	MT755	CP1467	-
301, 401	107515	107526	107545	MT251	MT252	-	MT0068	MT755 (301 only)	CP1468	-
302, 402	107515	107527	107545	MT251	MT252	-	MT0068	MT755	CP1468	-
500	107501	107527	107545	MT251	MT252	-	MT0068	MT755	CP1468	MT0549-KIT
601	107518	107528	107548	0400403	0400751	-	MT0120	-	CP1468	MT0548-KIT
750	107503	107527	107545	MT251	0400781	-	MT0068	MT4829	CP1468	MT0549-KIT
1000	107505	107530	107548	0400403	0400781	-	MT0120	MT4892 (Not 4:1)	CP1468	MT0548-KIT

\*Please note: 107520 - PRM kit MT0079, contains most of the same parts as 107510 (MT0089) but has more clutch plates. Fits 100, 140, 160, 260 + 101.



## Gearbox Accessories



PRM-MT0193

### PRM-MT0193

Live PTO power take off unit for PRM 500 and 750 for SAE B. Designed to allow the operation of a hydraulic pump from the back of the gearbox. This is the 'live / direct' power take off with SAE B flange.



PRM-MT0528

### PRM-MT0528

Clutched power take off (PTO) with SAE B flange for PRM 1000 and PRM 1500 marine gearboxes after serial number 2006088. Designed for SAE B pumps.



PRM-MT0153

### PRM-MT0153

Clutch kit pack for PRM-MT0528



PRM-MT0397

### PRM-MT0397

Seal kit for PRM-MT0193 and PRM-MT0528



## Other PRM Spares

We stock a huge range of PRM spares to support you.

Spares that are not listed may be available online at [www.asap-supplies.com](http://www.asap-supplies.com).



PRM-0563501



PRM-0540302



PRM-MT8103



PRM-MT0548-KIT



PRM-MT471



PRM-CP1307

## Couplings

For flexible and split couplings, please see Drivetrain section, pages 39-41.



807101



808417

**Drive Force BorgWarner Gearbox Spares**

Spares	Gearbox Models
	71C / 1017 and 72C / 1018
Seal and gasket set	107711
Overhaul kit	107731
Piston ring and seal kit	107740
Clutch plate - ahead friction plate	DF5C-A66A
Clutch plate - astern friction plate	DF72-A66B
Ahead pack only kit	107721 (71C only)
Ahead clutch plate kit	107722 (72C only)
Clutch pressure single plate - Ahead (front)	DF5C-175A
Clutch pressure single plate - Ahead (rear)	DF5L-67
Clutch belleville single plate	DF3-37
Steel clutch single plate - ahead	DF3-176
Steel clutch single plate - astern	DF72-176
Oil pump	DF71C-A60
Seal ring pump to case	DF3-61
Thrust washer	DF71-17
Output coupling nut with washer	DF1000-149-034
Oil seals - front	DF1000-044-014
Oil seals - output CR2 only	DF1000-044-003
Clutch return spring	DF71-97
Breather fitting	DFA4740G

Output Couplings / Oil Seals	
Part no.	Description
DF4547AY	Output coupling - 5" flange / 10 spline
DF1000-031-001	Output coupling - 5" flange / 24 spline
DF71C-110	Oil seals - Output 10 spline, 4" coupling
DF1000-044-017	Oil seals - Output 24 spline, 4" coupling



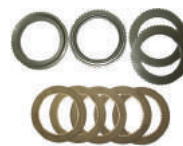
Inclusion in this section under a brand name does not imply that the items listed are manufacturer's genuine supply. However, please note that we have chosen our suppliers extremely carefully to provide you with comparable quality.



107731  
Overhaul kit



DF72-A66B  
Clutch plate kit



107721  
Ahead pack only kit



DF5L-67  
Clutch pressure single plate



DF3-37  
Clutch belleville  
single plate



DF3-176  
Steel clutch single  
plate - Ahead



DF1000-031-001  
Output coupling



DF1000-044-014  
Oil seal - Front



DF1000-149-034  
Nut for output coupling



DF71C-A60  
Oil pump



DF71-17  
Thrust washer



DF71-97  
Clutch return spring

**Drive Force ZF Hurth Gearbox Spares**

Gearbox models	Seals, gaskets, clutch plates	Clutch plate kit (1 ahead, 1 astern)	Overhaul kit (seal, gaskets, clutch plates)	Sintered metal clutch plate (1.6mm thickness)	Steel clutch plate (1.42mm thickness)	Clutch thrust washer	Gasket Bearing End	Oil filters
HBW 5, 50, 100	107610	107620	1 x 107620 + 1 x 107610	DF288757 (O.D. 68mm)	DF288758	DF288748	DF288739	Not fitted
HBW 10, 150	107612	107622	107632	DF288912 (O.D. 78mm)	DF187872	DF344787	-	Not fitted
HBW 150 V-Drive	-	107622	-	DF288912 (O.D. 78mm)	DF187872	DF344787	-	-
HBW 20, 250	107615	-	107635	DF288889	DF206026	DF327395	-	-
HSW 630A, 800	-	-	107637 HSW630	-	-	-	-	107691 Filters only 107692 Filter kit



The above Drive Force parts are only suitable for the Hurth gearboxes listed above.

Inclusion in this section under a brand name does not imply that the items listed are manufacturer's genuine supply. However, please note that we have chosen our suppliers extremely carefully to provide you with comparable quality.



107632  
Overhaul kit



DF344787  
Thrust washer for clutch



DF288889  
Sintered metal clutch plate



107662  
Bearings for main shaft



107691  
Oil filter

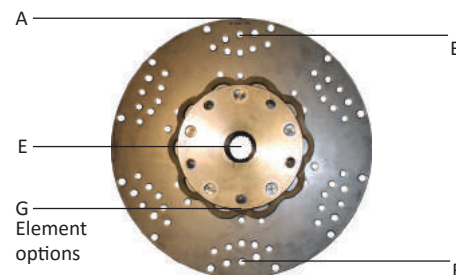
## Damper Drive Plates

The drive plate, or damper as it is often called, bolts to the engine flywheel, and connects the engine to the transmission / gearbox splined shaft. The damping is achieved by two methods. R & D drive plates feature a special nylon polymer moulding, designed to be stiff enough to transmit the engine power yet flexible enough to isolate vibration and shock. They are also designed to fail safe in the event of an emergency. Drive Force drive plates feature a ring of springs between the engine mount plate and the transmission spline plate.

Many engines start life fitted with a "standard" drive plate, however, many engine marinisers have their own special "standard". Therefore, to ensure we supply the correct drive plate for your engine, please advise us of the following information:

- A. Outside diameter of back plate, and if it is required to locate in a register \_\_\_\_\_
- B. P.C.D. of fixing bolts, number and diameter \_\_\_\_\_
- C. Engine make and model \_\_\_\_\_
- D. Maximum engine horsepower and RPM \_\_\_\_\_
- E. Make, model and gearbox reduction \_\_\_\_\_
- F. Use of boat (i.e. commercial, pleasure, sailing etc.) \_\_\_\_\_

If you need help with your drive plate selection, please contact our helpful sales team.



### How to work out your P.C.D.



Hole centres from  
6 o'clock to 12 o'clock.

### How to work out the torque of your engine for drive plates

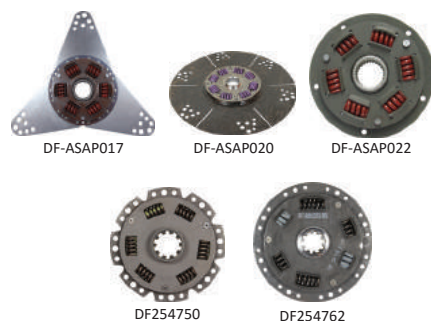
$$\frac{\text{ENGINE HORSE POWER} \times 5250}{\text{ENGINE SPEED}} = \text{Torque lbft}$$

$$\frac{\text{ENGINE HORSE POWER} \times 7123}{\text{ENGINE SPEED}} = \text{Torque Nm}$$

Example:  $\frac{150 \times 5250}{2500} = 5250 = 315 \text{ lbft}$   
 $\frac{150 \times 7123}{2500} = 427 \text{ Nm}$

## Drive Force Spring Damper Drive Plates

Once the most commonly installed damper drive plate, these Drive Force spring drive plates units are available with two spline options: for 26 teeth 20/40 DP BorgWarner Velvet Drive type spline, or for 10 teeth B10x23 x29 DIN 5464 ZF Hurth PRM 80, PRM 125, PRM 150, BorgWarner 500, Technodrive spline. If you need help with your damper drive plate selection please contact us, we are happy to help.



Part no.	O.D. mm	Spline		Typical gearbox use
		Teeth	Diameter mm	
DF-ASAP017	334	26	35.4	BorgWarner, 3 legged triangle
DF-ASAP020	336.5	26	35.4	BorgWarner
DF-ASAP022	157	26	35.4	BorgWarner
DF254750	121.5	10	29	ZF Hurth HBW100
DF254762	152	10	29	ZF Hurth HBW100
DF288240	157	10	29	ZF Hurth gearbox spline

## R & D MARINE LTD. Drive Plates

### Hammer Head

More torsionally flexible than loop drive plates, usually have a smaller diameter element than our other designs but still retain the ability to be mounted either way round on the flywheel and rotate in either direction. Three stage stiffness with up to 9° of deflection.



RND-31R5

Hammer head element				
Part no.	O.D. mm	Spline		Typical gearbox use
		Teeth	Diameter mm	
RND-31R5	352.37	17	28.84	PRM 301, 302, 401, 402, 500, 750
RND-3L25	314.3	26	35.4	BorgWarner 70, 71 & 72 Velvet Drive, Hurth HSW & HBW 250, ZF IRM220A, Paragon P series, Technodrive TM 93, 170, 260, 345, 485, 545 + 880, Twin Disc 501 + 502, TMP 1200 + 1500, PRM inline gearboxes & some later Volvo saildrive

### High Deflection (Also known as wind up)

Softer than other designs with a maximum deflection up to 30°, slightly larger diameter element and can only be fitted to rotate in the standard direction of rotation (anti-clockwise looking at the flywheel) with the element facing the gearbox.



RND-49AD5

High deflection element				
Part no.	O.D. mm	Spline		Typical gearbox use
		Teeth	Diameter mm	
RND-49AD2	362	17	28.84	PRM 301, 302, 401, 402, 500 & 750
RND-49AD5	352.37	17	28.84	PRM 500, 750, 302, 302, 401, 402
RND-51AE101	352.5	18	40.5	PRM 1000, PRM 1000A, PRM 1000D

## Loop

General purpose robust element which can be mounted either way round on the flywheel and can rotate in either direction. Linear stiffness up to 3° of reflection.

Loop element				
Part no.	O.D. mm	Spline		Typical gearbox use
		Teeth	Diameter mm	
RND-12B4	155.45	17	19.7	Newage, PRM Delta gearbox
RND-13B37	151	10	25.4	PRM 100, 101, 140, 160, 260, 280
RND-13B4	155.5	10	25.4	PRM 100, 101, 140, 160, 260
RND-13B8	298.5	10	25.4	PRM 100, 101, 140, 160, 260
RND-14G1	298.5	10	25.4	PRM 101, 160, 260
RND-16M2	362	10	28.6	PRM 175, 250, 265, 310
RND-18M2	362	17	28.84	PRM 500, 750, 302, 302, 401, 402
RND-22A60	215.9	10	29	Newage PRM 80, 120, 150, ZF 10, 12, HBW 5, 10, 35, 50, 100, 125 + 15, Technodrive TMC 30, 40, 50 + 60, BorgWarner 500
RND-22B37	266.7	10	29	Hurth HBW 5, 10, 50, 100 + 125, ZF10, 12 PRM 80, 120 + 150, Technodrive TMC30, 40, 50 + 60, BorgWarner 500
RND-22B4	155.5	10	29	PRM 60, 90, 120, 125, 150 Hurth HBW 50, 100, 150
RND-22B60	215.8	10	29	<b>PRM 125, 150</b> Hurth HBW 50, 100, 150
RND-22B8	266.7	10	29	Hurth HBW 5, 10, 50, 100 + 125. ZF10, 12 PRM 80, 120 + 150, Technodrive TMC30, 40, 50 + 60, BorgWarner 50
RND-2B37	266.7	26	35.4	BorgWarner, Volvo MS3, MS & Inline PRM
RND-2B4	155.5	26	35.4	BorgWarner 71 and 72C, PRM Inlines
RND-2B8	298.5	26	35.4	BorgWarner 70, 71, 72 C Velvet Drive, PRM inline gearboxes, TMP, Paragon & Twin Disc Boxes, ZF Hurth HSW gearboxes, some Volvo Saildrive legs
RND-3E1	298.5	26	35.4	BorgWarner 70, 71, 72 C Velvet Drive, PRM inline gearboxes, TMP, Paragon & Twin Disc Boxes, ZF Hurth HSW gearboxes & some Volvo Saildrive legs.
RND-3M2	362	26	35.4	BorgWarner 71 and 72C, PRM Inlines
RND-3M3	362	26	35.4	BorgWarner 70, 71, 72 + 73, PRM Inline gearboxes, Paragon P series, Techodrive TN 90, 170, 260, 345, 485, 545 + 880, TMP 1200 & 1500, Twin Disc 501 + 502, some Volvo saildrives, ZF IRM 220A & Hurth HBW 250 & HSW gearboxes.
RND-7J7	180.9	26	35.4	BorgWarner 71 and 72C, PRM Inlines



RND-22B60



RND-3M2



RND-7J7

More Drive Plates available online. Please visit [www.asap-supplies.com](http://www.asap-supplies.com)

## Marine Heat Exchangers

A marine heat exchanger provides the cooling for a marine engine. In basic form it is a bundle of tubes where two cooling circuits meet and exchange the heat. This could be in the cooling circuit of an engine (marine heat exchanger), the oil circuit (oil cooler) or intake air (inter cooler). For cooling water circuits, where possible, look for a combined marine heat exchanger manifold. When these are not available, then a separate marine heat exchanger may be the answer. They are available in tubular form, or with an integral header tank, and models are available to suit engines of various outputs.

### **BOWMAN** Combined Heat Exchangers / Header Tanks

- Bowman heat exchanger header tanks are extremely universal
  - Can be engine or remote mounted to provide engine cooling and accessibility
  - Available in a range of sizes
- Replacement tubestacks available, see online at [www.asap-supplies.com](http://www.asap-supplies.com) or contact our helpful sales team.

Part no.	Model	For maximum horsepower	Fresh water connection mm	Raw water connection mm / BSP Female
201630	EH100	54	30 bore, flanged	3/4"
201643	EH200	67	30 bore, flanged	3/4"
201655	FH100	80	45	1"
201675	FH200	120	45	1"
201683	FH300	160	57	1-1/4"
201690	FH400	200	57	1-1/4"



201655

## Exhaust Manifolds and Manicoolers

If you are looking for an engine for your boat, have you considered marinising one yourself? There are now many "bolt on" marinisation parts for a range of well known vehicle engines. Most can be easily converted for use in a boat. One important item we can help you with is the heat exchanger manifold. There are various options available from Bowman and Seaflo, including combined heat exchanger manifolds, keel cooled manicoolers and water cooled manifolds. Please contact us if the exhaust manifold you need is not listed and we will try to help you. Or for more information, please visit [www.asap-supplies.com](http://www.asap-supplies.com)

Water cooled manifold, heat exchanger and header tank unit in one compact unit. Most bolt over the exhaust ports of the engine and can be simply plumbed into the cooling system. We can also supply suitable water cooled exhaust outlets to bolt onto the manifold outlet flange, as well as plumbing and thermostat housings to complete the installation.



201200

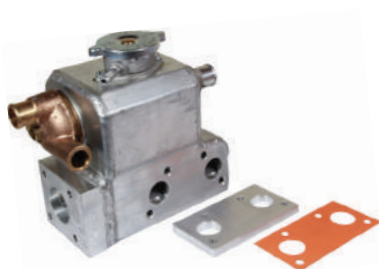
### BOWMAN Heat Exchanger Exhaust Manifolds

Part no.	For engine models
201200	BMC 1.5, 1.8
201220	Ford XLD416, 418
201224	Ford Dorset 4D 2700
201231	Perkins 499, 4107, 4108
201234	Perkins 4236, 1004 Phaser

For other manifold heat exchangers including keel cooled manifolds, please see our website [www.asap-supplies.com](http://www.asap-supplies.com).

Seaflo manicoolers for heat exchanger cooled marine diesel engines.

- Designed for small to mid sized engines
- Can be used on boat propulsion engines or gensets
- Cooling tube bundle fitted
- Extruded aluminium body
- Gunmetal end caps
- Quality assured
- Factory pressure tested



226004

### SEAFLOW Heat Exchanger Manicoolers

Part no.	For engine models	Raw water connection size mm	Hose connection for engine coolant mm
226001	Kubota V1505	22	28
226002	Kubota D1005	22	28
226003	Kubota D772	22	22*
226004	Kubota Z482	22	22*
226005	Kubota V1903, V2203	22	28
226006	Kubota Z602	22	22*
226007	Kubota D902	22	22
226008	Kubota D1403, D1703	22	28
226009	Kubota D950	22	22
226021	Isuzu 3LB1	22	32 + 34
226022	Isuzu 3LD1	22	32 + 34
226023	Isuzu 4LC1	22	32 + 34
226024	Isuzu 4LE1	22	32
226031	Perkins 404D15	22	32

\* Bottom port is 1/2" BSP female

Seaflo manicoolers for keel cooled marine diesel engines.

- Designed for small to mid sized engines
- Can be used on boat propulsion engines or gensets with keel cooled cooling systems
- Do not have a tube bundle fitted
- Extruded aluminium body
- Made from marine grade materials
- Quality assured
- Factory pressure tested



226223

### SEAFLOW Keel Cooled Manicoolers

Part no.	For engine models	Hose connection for engine coolant mm
226201	Kubota V1505	28
226202	Kubota D1005	28
226203	Kubota D722	22 + 1.2" BSP
226204	Kubota Z482	22 + 1/2" BSP
226205	Kubota V1903	28
226221	Isuzu 3LB1	32
226222	Isuzu 3LD1	32
226224	Isuzu 4LE1	32
226225	Isuzu 3CB1	28

### BOWMAN Water Cooled Manifold

201324

Model number FH420-3374

For engine models: Ford 4 cylinder and Dorset engine 2700 and 2710 series.



201324

## BOWMAN Tube Heat Exchangers

- Alloy body with cupro-nickel tubestack
- Can be mounted remotely from the engine
- Will require a header tank to fill and purge airlocks

Replacement tubestacks and other sizes available, see online at [www.asap-supplies.com](http://www.asap-supplies.com) or contact our helpful sales team.

Part no.	Model	For maximum horsepower	Fresh water connection BSP Female	Raw water connection BSP Female
201775	EC100-4276-2	54	1"	3/4"
201776	FC100-3891-2	80	1-1/4"	1"
201778	FC120-3891-3	120	1-1/4"	1"
201779	FG100-3910-2	160	1-1/4"	1-1/2"



201775

## Oil Coolers

We offer a range of tubular oil coolers, including models with neoprene end caps and models with removable tubestacks and cast end caps. All the coolers listed here are suitable for either engine or gearbox oil cooling.

## BOWMAN DC Tube Oil Coolers

Tubular oil coolers, with BSP oil connections and moulded rubber end caps for the water connection.

Please note: Length listed is including end caps.

Part no.	Model	For maximum horsepower	Water connections mm	Oil connections BSP Female	Dimensions l x diameter mm
203010	DC50	40	22	3/8"	210 x 51
203020	DC60	54	22	1/2"	240 x 51
203050	DC90	80	22	1/2"	315 x 51
203051	DC90	80	28	1/2"	315 x 51
203062	DC120	107	22	1/2"	396 x 51
203063	DC120	107	28	1/2"	396 x 51

- Straight end caps fitted as standard 22mm or 28mm
- Maximum working temperature 125°C
- Maximum water pressure 3 bar
- Maximum oil pressure 5 bar
- Mounting clips - **413743**



203050

## BOWMAN Tubular Oil Coolers

The Bowman EC oil coolers and FC oil cooler ranges are tubular oil coolers, with BSP oil connections. The tubestack can be removed and serviced or replaced via the bolt on end caps. Please note: Length listed is including end caps. Other sizes available through our website [www.asap-supplies.com](http://www.asap-supplies.com).

Part no.	Model	For maximum horsepower	Water connections mm	Oil connections BSP Female	Dimensions l x diameter mm
203465	EC80	80	32	1/2"	200 x 100
203466	EC80	80	45	1/2"	190 x 100
203475	EC100	120	32	1/2"	280 x 100
203476	EC100	120	45	3/4"	280 x 100
203483	EC120	160	32	1/2"	370 x 100
203484	EC120	160	45	3/4"	370 x 100
203485	FC80	130	58	1"	296 x 130
203487	FC100	180	58	1"	380 x 130
203490	EC140	200	45	3/4"	460 x 100
203494	FC120	240	58	1"	480 x 130
203495	EC160	240	45	3/4"	590 x 100
203497	FC140	300	58	1"	610 x 130
203499	FC160	360	45	3/4"	690 x 130



203465



203490

## BOWMAN Intercooler / Charge Air Cooler

Bowman intercoolers / charge air heat exchangers are suitable for cooling both marine engines and land based engines, including: gensets, fire pumps and co-generation equipment. They are also suitable for use in engine testing and development programs. Designed to give increased fuel efficiency and engine power when used in conjunction with a turbo charger. Please note: Length listed is including end caps.

Part no.	Model	For maximum horsepower	Water connections BSP	Air connections mm	Dimensions l x w x h mm
202650	FC100	147	1"	52	358 x 126 x 163
202660	FG100	255	1-1/4"	76	472 x 139 x 180
202670	GL140	322	1-1/2"	76	502 x 170 x 220



202650

Please note

The figures listed above are based on Air temperature from 180°C to 50°C at 1.75 Bar G and using water temperature at 20°C.

**BOWMAN** Hydraulic Oil Coolers

203338

Other sizes are available at  
[www.asap-supplies.com](http://www.asap-supplies.com).

Part no.	Model	Hydraulic oil flow lpm	Cooling water flow lpm	Oil and water connections BSP female	Heat dissipated kW	Maximum pressure bar @ 120°C	Dimensions l x w x h mm
203308	EC80	80	80	Oil: 1/2", Water: 3/4"	4	20	174 x 100 x 105
203310	EC100-1425-2	80	80	3/4"	9	20	260 x 100 x 105
203312	EC120	77	80	3/4"	13	20	346 x 100 x 105
203314	EC140	68	80	3/4"	17	20	444 x 100 x 105
203316	EC160	64	80	3/4"	22	20	572 x 100 x 105
203338	FC80-1426-1	140	140	1"	13	20	272 x 126 x 130
203340	FC100	145	140	1"	19	20	358 x 126 x 130
203342	FC120	116	140	1"	26	20	456 x 126 x 130
203344	FC140	105	140	1"	35	20	584 x 126 x 130
203346	FC160	96	140	1"	45	20	730 x 126 x 130

SEAFLOW



206915

BOWMAN



206932

BOWMAN



206928

## Pressure Caps

Part no.	Pressure up to PSI	Top diameter mm (excluding lugs)	Cap diameter mm	Overall height mm	Filler neck to suit
206907	7	60	37	28	206932
206910	10	60	37	28	206932
206913	13	60	37	28	206932
206915	15	60	37	28	206932
206920	20	60	37	28	206932
206928	10	70	51	28	206933
206900	Blanking cap	60	37	28	206932

**BOWMAN** Straight Brass End Caps

Replacement naval brass end cap for Bowman EC series coolers.



203475-4



203475-5

Part no.	Angle	O.D. hose connection spigot
203475-2	Straight	45
203475-4	Straight	32
203475-5	90°	32

**BOWMAN** Tubestack O-Rings

For heat exchangers and oil coolers.



BOW-OS37NT

Part no.	I.D. mm
BOW-AN12NT	77
BOW-OS31NT	50
BOW-OS37NT	66
BOW-OS41NT	79
BOW-OS46NT	95
BOW-OS52NT	114
BOW-OS63NT	145
BOW-OS69NT	175

BOWMAN

More Bowman online....



For charge air coolers and front mounted header tanks and tubestacks, please visit [www.asap-supplies.com](http://www.asap-supplies.com)

## Thermostat Housings

BOWMAN



201901

Drive Force



201925

Part no.	Suitable for
201901	BMC 1.5 / 1.8
201904	BMC 2.52

Part no.	Suitable for
201925	Ford 2700 / 2720
201931	Perkins 4107 / 4108

## Hose

For Seaflow hot water hose as well as silicone hose, please see Hose section.



Pages 182-183

Page 177

## **BOWMAN** Heat Exchanger and Oil Cooler Rubber End Caps

Most replacement moulded rubber end caps are made of neoprene. Usually the part number of the cap you are replacing is embossed on the outer edge to make replacement identification easier.

For Keel Cooled Manifolds					
Part no.	Diameter A mm		Diameter B mm		Description
	I.D.	O.D.	I.D.	O.D.	
BOW-3419NP	51	60	70	80	Bowman blank end cap
BOW-3421NP	68	80	90	103	Bowman blank end cap
BOW-2981NP	-	-	45	55	Bowman blank end cap
POL-A3-703	-	-	72	80	Polar blank end cap



For Heat Exchanger Manifolds					
Part no.	Diameter A mm		Diameter B mm		Description
	I.D.	O.D.	I.D.	O.D.	
BOW-3365NP	22	32	51	60	Bowman straight
BOW-3366NP	28	38	51	60	Bowman straight
BOW-3367NP	32	42	51	60	Bowman straight
BOW-2680NP	22	32	51	60	Bowman 90°
BOW-3716NP	32	42	50	60	Bowman 90°
BOW-3187NP	28	38	51	60	Bowman 90°
POL-A3-727	22	32	53	61	Bowman straight
POL-A3-728	28	38	53	61	Bowman straight
POL-A4-670	28	42	62	76	Bowman straight
POL-A3-635	28	42	78	93	Bowman straight
BOW-2736NP	50	60	70	80	Bowman straight



For Heat Exchanger Manifolds							
Part no.	Diameter A mm		Diameter B mm		Diameter C mm		Description
	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	
BOW-2679NP	22	32	51	60	70	80	Bowman 90°
BOW-3186NP	28	38	51	60	70	80	Bowman 90°
BOW-3251NP	22	32	51	60	70	80	Bowman straight
BOW-3667NP	28	38	51	60	70	80	Bowman straight
BOW-3192NP	28	42	68	80	90	103	Bowman 90°
POL-A3-783	22	32	55	66	74	85	Polar 90°
POL-A3-636	28	39	63	76	85	103	Polar 90°



## **SEAFLOW** Manicooler Replacement Anode

**226923**

Replacement zinc pencil anode for the Seaflow exhaust manicoolers. You will need one anode per manicooler.



226923

## **SEAFLOW** Manicooler Filler Cap

**226920**

Seaflow manicooler replacement filler cap. Also known as a pressure cap or radiator cap, this pressure cap is set at 95KPa.



226920

## **SEAFLOW** Engine Expansion Tanks

- Suitable for temperatures up to 100°C
- Suitable for pressure up to 0.5 bar
- Construction: Plastic
- UV resistant
- Supplied with expansion tank bracket



201820



201810

Part no.	Pressurised	Capacity (litres)
201810	No	1.7
201820	Yes	1.7

## Raw Water Pumps

For raw water pumps please see Pumps section, pages 230-231



SWM71

## Exhaust Outlets

For exhaust outlets please see Exhaust section, page 111.



202025



163060



103004



104185



JAB-1210-0001-P



105313



162007



226923



199031

	Engine Type	Oil Filter	Fuel Filter	Air filter paper element	Pump Impeller	Alternator Belt	Rocker Cover Gasket	Anode	Thermostat
BMC Leyland / Thornycroft	BMC 1.5 / Thornycroft 90	<b>131060</b> cartridge <b>131061</b> Spin on	<b>199296</b> cartridge <b>103423</b> Spin on	<b>104185</b>	<b>4568-0001</b> keyed <b>1210-0001</b> splined	<b>105310</b>	<b>131007</b>	-	<b>199031</b> <b>199033</b>
	BMC 1.8 / Thornycroft 108	<b>132060</b> MK 2 <b>132061</b> MK1 early	<b>199296</b> cartridge <b>103423</b> Spin on	<b>104185</b>	<b>4568-0001</b> keyed <b>1210-0001</b> splined	<b>105310</b>	<b>131007</b>	-	<b>199031</b> <b>199033</b>
	BMC 2.2	<b>134060</b> later	<b>199296</b> cartridge <b>103423</b> Spin on	<b>104185</b>	<b>1210-0001</b> splined	<b>105310</b>	<b>134007</b>	-	<b>199031</b> <b>199033</b>
	BMC 2.5 Thornycroft 154	<b>134060</b> Cartridge <b>131061</b> Spin on	<b>199296</b> cartridge <b>103423</b> Spin on	<b>104185</b>	<b>1210-0001</b> splined	<b>105310</b>	<b>134007</b>	-	<b>199031</b> <b>199033</b>
	BMC 3.8 / Thornycroft 230 / Leyland 4/98	<b>136060</b> cartridge <b>157060</b> spin on	<b>199296</b> short <b>103132</b> long	-	<b>17937-0001</b> splined	<b>105313</b>	-	-	<b>199032</b> <b>199034</b>
	BMC 5.7 / Thornycroft 345 / Leyland 6/98	<b>136060</b> cartridge <b>155060</b> spin on	<b>199296</b> short	-	<b>17937-0001</b> splined	<b>105313</b>	-	-	<b>199032</b>
Beta / Kubota	Beta 10 BZ482 Beta 14 BZ482 Beta 16 BZ602 Beta 20 BD722 Beta 25 BD902	<b>102067</b>	<b>103004</b>	<b>104015</b>	<b>JP-09-810B</b>	<b>105310</b>	-	<b>226923</b>	-
	Beta 28 BD1005 Beta 30 BD1105	<b>102208</b>	<b>103004</b>	<b>104015</b>	<b>JP-09-810B</b>	<b>105310</b>	-	<b>226923</b>	-
	Beta 35 BV1305	<b>102208</b>	<b>103004</b>	<b>104015</b>	-	<b>105310</b>	-	<b>226923</b>	-
	Beta 38 BV1505	<b>102208</b>	<b>103004</b>	<b>104173</b>	-	<b>105310</b>	-	<b>226923</b>	-
	Beta 43 BV1903 Beta 45 BV2003 Beta 50 BV2203 Beta 60 BV2403	<b>102913</b>	<b>103004</b>	<b>104173 / 104958</b>	<b>JP-09-1027B</b>	<b>105310</b>	-	<b>226923</b>	-
Bukh	Bukh DV10 / Bukh DV20	<b>102683 / 102222</b>	<b>103424</b>	-	<b>JP-09-806B / JP-09-808B</b>	<b>105313</b>	-	<b>105650</b>	-
Ford / Thornycroft	Ford 1.6 diesel XLD60 Thornycroft 98	<b>151061 / 131061</b>	<b>103423 / 151045 / 199296</b>	-	<b>JP-09-810B</b>	<b>105310</b>	<b>151007</b>	-	<b>151036</b>
	Ford 1.8 diesel 110XLD / Thornycroft 110	<b>152060</b>	<b>151045 / 199296</b>	-	<b>JP-09-810B</b>	<b>105310</b>	<b>152007</b>	-	<b>152036</b>
	Ford 2.5 diesel / Thornycroft 152 FSD425	<b>154060</b>	<b>199296</b>	-	<b>JAB-1210-0001-P</b>	<b>105310</b>	<b>154007</b>	-	<b>154033</b>
	Ford Dorset 250 / 2712 / Thornycroft 250 Ford Dover 251 / 2722 / - Thornycroft 251 (6 cylinder)	<b>155060</b> <b>157060</b>	<b>199296</b>	-	<b>JAB-1210-0001-P</b>	<b>105313</b>	<b>155007</b> <b>157007</b>	-	<b>199033</b>
	Ford Dorset 380 / 2715 - Thornycroft 380 Ford Dover 381 / 2725 - Thornycroft 380 (6 cylinder)	<b>155060</b> <b>157060</b>	<b>199296</b>	-	<b>JAB-17937-0001-P</b>	<b>105313</b>	<b>156007</b> <b>158007</b>	-	<b>199031 / 199033</b>
Perkins	Perkins 4.99 4.107	<b>161060</b>	<b>162045</b> early / <b>199296</b>	-	<b>JAB-1210-0001-P</b>	<b>105313</b>	<b>162007</b>	-	<b>199031 / 199033</b>
	Perkins 4.108	<b>162060</b> cartridge <b>132060</b> Spin on short <b>155060</b> Spin on long	<b>199296</b>	-	<b>JAB-1210-0001-P</b>	<b>105310 / 105313</b>	<b>162007</b>	-	<b>199031 / 199033</b>
	Perkins Prima	<b>163060</b>	<b>151045</b>	-	<b>JAB-1210-0001-P</b>	<b>105310 / 105313</b>	-	-	<b>163031</b>
	Perkins 4.236	<b>155060</b> Spin on <b>162060</b> Cartridge	<b>199296</b>	-	<b>JAB-1210-0001-P</b>	<b>105313</b>	<b>165007</b>	-	-
	Perkins 6.354	<b>167060</b>	<b>199296</b>	-	<b>JAB-17937-0001-P</b>	<b>105313</b>	<b>167007</b>	-	-
	Perkins 6.354.4	<b>167060</b>	<b>199296</b>	-	<b>JAB-17937-0001-P</b>	<b>105313</b>	<b>167007-4</b>	-	-
Thornycroft	Thornycroft 33 / 60 / 80	<b>102672</b>	<b>199296 / 173041</b>	-	<b>JP-09-810B</b>	<b>105310</b>	-	-	-
	Thornycroft 140 / 150	<b>136060</b>	<b>199296</b>	-	<b>JAB-1210-0001-P</b>	<b>105310</b>	<b>140007</b>	-	<b>199031 / 199033</b>
Volvo	Volvo 2001	<b>102207</b>	<b>ORB 17913</b>	-	<b>ORB 15583</b>	<b>ORB 18003</b>	<b>ORB 13042</b>	<b>ORB 15300</b>	<b>ORB 15779</b>
	Volvo 2002 Volvo 2003	<b>102207</b>	<b>ORB 17913</b>	-	<b>ORB 15583</b>	<b>ORB 18900 / ORB 18906</b>	<b>ORB 13043</b>	<b>ORB 19929 / ORB 15300</b>	<b>ORB 15779</b>
	Volvo 2003T	<b>102207</b>	<b>ORB 17913</b>	-	<b>ORB 15811</b>		<b>105310</b>	<b>ORB 15300</b>	<b>ORB 15779</b>
	Volvo 2010 / 2020	<b>ORB 14473</b>	<b>103370</b>	-	<b>ORB 15807 / ORB 15808</b>	<b>ORB 18711 / ORB 18534</b>	<b>105310</b>	<b>ORB 19929</b>	-
	Volvo 2030 Volvo 2040	<b>ORB 14525</b>	<b>103370</b>	<b>ORB 17509</b>	<b>ORB 15808</b>	<b>ORB 18482</b> <b>ORB 18711</b>	<b>105310</b>	<b>ORB 19929</b>	-

Engine Type	Oil Filter	Fuel Filter	Air filter paper element	Pump Impeller	Alternator Belt	Rocker Cover Gasket	Anode	Thermostat
Volvo B18 / B20	ORB 14057	-	-	ORB 15808	ORB 18805	ORB 13100	ORB 15301	ORB 15097
Volvo B21 / B23 / B25 series	ORB 14057	ORB 17162	-	ORB 15575	ORB 18548 / ORB 18382	ORB 13909 / ORB 12870 / ORB 13393	ORB 19929	ORB 15580
Volvo B30 series	ORB 14057	-	-	ORB 15575	ORB 18548	ORB 13039	ORB 15301	ORB 15791
Volvo D1	ORB 14525	103370	-	ORB 15808	ORB 18188	-	-	-
Volvo D2	ORB 14525	103370	ORB 17509	ORB 15808 / ORB 15811	ORB 18087 / ORB 18711	-	ORB 15300	ORB 15263
Volvo D3	ORB 17305 / ORB F14525	ORB 17191 / ORB 17811	ORB 17277 / ORB 17535	ORB 15662	ORB 18809	ORB 13459	ORB 15300	ORB 15261
Volvo D4 / D6	ORB 17732 Primary ORB 17901 Secondary	ORB 17443	ORB 17999	ORB 15573 / ORB 15649	See web	-	ORB 19042	ORB 15266
Volvo D9 / D11	ORB 14556 By-pass ORB 14736 Primary	RAC R120T	ORB 17999	ORB 15573	-	-	ORB 15300	ORB 15639 / ORB 15784
Volvo D12 / D13 / D16	ORB 14556 By-pass ORB 14736 Primary (ORB 14634)	-	ORB 17919	ORB 15459	-	-	-	-
Volvo D21	ORB 14621 / ORB 14390	-	-	ORB 15575 / ORB 15811	ORB 18207	-	ORB 19929	ORB 15785
Volvo D22	ORB 14476 / ORB 14057	ORB 17874	-	ORB 15583	ORB 18382 / ORB 18482	-	-	-
Volvo D30	ORB 14057	ORB 17987	ORB 17185	ORB 15593	ORB 18310 / ORB 18978	ORB 13119	ORB 19929	-
Volvo D31	ORB 14057	ORB 17987	ORB 17488 / ORB 17535	ORB 15593	ORB 18978 / ORB 18391	ORB 13652	ORB 19929	ORB 15269
Volvo D32	ORB 14390 / ORB 14057	ORB 17987	ORB 17185	ORB 15575 / ORB 15593	See web	ORB 13652	ORB 19929	ORB 15785
Volvo D40	ORB 14034	ORB 17874	ORB 17185	ORB 15593 / ORB 15660	ORB 18310 / ORB 18978	ORB 13287	ORB 19929	ORB 15787 / ORB 15788
Volvo D41	ORB 14034	ORB 17874	ORB 17488 / ORB 17535	ORB 15593	ORB 18978 / ORB 18391	ORB 13653	ORB 19929	ORB 15269
Volvo D42	ORB 14034 / ORB 14974	ORB 17874	ORB 17185 / ORB 17488	ORB 15593	See web	ORB 13653	ORB 19929	ORB 15269
Volvo D43 / D44	ORB 14974	ORB 17874	ORB 17185	ORB 15593	See web	ORB 13653	-	ORB 15269
Volvo D60	ORB 14974	ORB 17987	ORB 17280	ORB 15593 / ORB 15660	ORB 18391	-	ORB 15661	-
Volvo D61	ORB 14390 / ORB 14741 (ORB 14634)	ORB 17987	ORB 17185	ORB 15660	ORB 18396 / ORB 18391	-	ORB 15661	-
Volvo D62	ORB 14634	ORB 17987	ORB 17185	ORB 15660	ORB 18391	-	ORB 15661	-
Volvo D63	ORB 14390 / ORB 14741	ORB 17987	-	ORB 15649	ORB 18391	-	ORB 15661	ORB 15266
Volvo D70	ORB 14034 / ORB 14974 (ORB 14634)	ORB 17987	ORB 17280	ORB 15593 / ORB 15660	ORB 18367	-	ORB 15661	-
Volvo D71 / D72	ORB 14390 / ORB 14741 (ORB 14634)	ORB 17987	ORB 17185	ORB 15660	ORB 18396 / ORB 18391	-	ORB 15661	-
Volvo D73	ORB 14390 / ORB 14741 (ORB 14634)	ORB 17987	-	ORB 15660	ORB 18391	-	ORB 15661	-
Volvo D74	ORB 14390 / ORB 14741	ORB 17987	ORB 17952 / ORB 17280	ORB 15660	ORB 18391	-	ORB 15661	ORB 15110
Volvo D120	ORB 14974 / ORB 14634	ORB 17987	ORB 17280	ORB 15593 / ORB 15660	ORB 18396 / ORB 18980	-	ORB 15661	-
Volvo D300	ORB 14974	ORB 17874	ORB 17185	ORB 15593	See web	-	-	-
Volvo MD1 / MD2 / MD3	102207	ORB 17065	-	ORB 15807 / ORB 15583 / ORB 15808	See web	ORB 13399	ORB 15300	ORB 15780 / ORB 15097 / ORB 15780
Volvo MD5	102207	ORB 17065 / ORB 17913	-	ORB 15583	ORB 18698 / ORB 18843	ORB 13066	ORB 15300	ORB 15783
Volvo MD6	102207	ORB 17874	-	ORB 15807 / ORB 15583	See web	ORB 13115	ORB 15300	ORB 15796 / ORB 15780
Volvo MD7	102207	ORB 17913 / ORB 17987 / ORB 17874	-	ORB 15807 / ORB 15583	See web	ORB 13115	ORB 15300	ORB 15796 / ORB 15780
Volvo MD11 / MD17	102207	ORB 17065 / ORB 17913	-	ORB 15583 / ORB 15808	See web	ORB 13399	ORB 15300	ORB 15097 / ORB 15780 / ORB 15784



Volvo Penta

Engine Spares &amp; Gearboxes



## Marine Generator Spares

We are able to provide a wide range of spares and products from WhisperPower, if you can't find what you are looking for then please contact us for more information. Many other WhisperPower generator spares and kits online at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Generator service kit for models:
WP 40201260	M-SC 3.5 (3000 RPM)
WP 40201860	M-SC 6 / 8 / 10 / 11 and SQ 6 / 7 (1500 / 1800 RPM)
WP 40201851	M-SC6/8/10/11 + M-SQ 6/7/8/9.25/10/11/12/15 + W-SC 6/8/10/11 + W-SQ6/7/8/9.25/10/11/12/15
WP 40201460	SQ 8 / 9.5 / 10 / 11 / 12 / 15 (1500 / 1800 RPM)



## Manual Oil Change Sump Pumps

These manual brass oil change sump pumps are designed to be connected to the sump of a marine engine, in a more accessible and convenient location, to make oil changes easier at service time. These pumps are extremely popular for changing the engine or gearbox oil.

Part no.	Thread BSP male	Overall height mm (with handle retracted / extended)	Cylinder height mm	Cylinder diameter mm	Pump capacity per stroke	Construction
203800	3/8"	240 / 285	172	30	77cc	Brass
203801	3/8"	220 / 270	165	30	77cc	Passivated steel



## Pulley Driven Engine Cooling Pumps



Part no.	Model	Model no.	Ports BSP female	Shaft size mm	Max. power @ 0.3 bar	Spare impeller
209711	F35B-8	10-24569-01	3/8"	12	20lpm at 2500 rpm	JP-09-808B
209721	F4B-8	10-24570-01	3/8"	12	34.5lpm at 2500 RPM	JP-09-810B
209731	F5B-8	10-24571-01	3/4"	17	46lpm at 2000 RPM	JP-09-1027B
209741	F7B-8	10-24572-01	1"	17	107lpm at 2000 RPM	JP-09-1028B
209750	F8B	10-13021-1	1-1/2"	24	279lpm at 2000 RPM	JP-09-819B

## Link Belt and Drive Belts

A.S.A.P. Supplies always have the right size drive belt in stock for your engine. Our range of detachable link belts provides a permanent and simple replacement for endless V belts. Detachable link drive belts are not a temporary solution. The service life is extended due to the quality of the materials used in construction to outlast traditional endless belts, especially in the toughest of applications.

These can be installed easily by either simply twisting once over the pulleys or connected using the link belt tool. Down time can be significantly reduced by using a link belt instead of an endless drive belt since the components will require no dismantling. Don't just carry a length of link belt in your on board spares box; fit a link belt now to save time and money

The unique material used in these detachable link belts provide a high resistance to harsh conditions to prolong life, plus it also shows no signs of deterioration after storage. Simply measure around the outside of your existing belt and order the next size up, to the nearest 25cm. *For example, if your existing belt measures 110cm, order 125cm of V belt.*



**105201**  
Link belt tool and instruction card for Nu-T link belts.

### Drive Force Nu-T Link Belts

Detachable V belts are made from separate links that can easily be made shorter or longer to suit your application. Link belts can run with up to 17° of misalignment.

Red Most applications	Blue Severe applications	Width mm (inch)	Section
105209	-	9.5 (3/8")	Z
105213	105413	13 (1/2")	A
105216	105416	16 (5/8")	B

### Drive Force Power Twist Link Belts

Detachable Power Twist drive belts are made from separate links that can easily be made shorter or longer to suit your application.

Power Twist drive link belts can cope with small degrees of misalignment.

Red Most applications	Blue Severe applications	Width mm (inch)	Section
105310	-	10 (3/8")	Z
105313	105513	13 (1/2")	A
105317	105517	16 (5/8")	B



## Parker Racor CCV and CV Systems

The Parker Racor CCV (Closed Crankcase Ventilation) and Racor CV (Crankcase Vent) systems help the environment by eliminating oil mist from engine crankcase emissions. All engines have blow by gas that passes from the combustion process into the engines case. This will mix with the lube oil, and can be forced out of the engine through the breather system. Racor CCV and Racor CV breather systems work by controlling the crankcase pressure, separating the oil and returning it to the sump. More sizes available online at [www.asap-supplies.com](http://www.asap-supplies.com)

Available with 3 different element grades, for the following applications:

**06 Grade** - Medium density (diesel applications only)

**08 Grade** - High density (diesel and petrol applications)

**10 Grade** - Ultra high density (diesel and petrol long life applications)



Racor offer a rough guide for selecting the right crankcase vent system for your engine. This is to take the rated horsepower and divide by 40 for closed crankcase systems or 20 for open crankcase systems. This will give the rough cubic feet per minute flow rate you will require from your crankcase system. New engines = rated horsepower divided by 40 (or 20) = CFM. Worn engines can produce twice as much blow-by.



Pop-up indicator that alerts of a bypass condition and the need for a filter element change

A unique crankcase pressure regulator with integral bypass valve minimizes variation in crankcase pressure. Excessive variation in crankcase pressure can damage seals, cause loss of oil, and other problems.

Left or right-hand inlet / outlet options

High efficiency oil separation down to 0.3 microns

Durable glass-filled nylon and die cast aluminium components

Steel with epoxy powder coating

Stainless steel latches for tool-less filter change

Replaceable high-performance filter with depth-loading, micro-glass fibre coalescing media

Extended filter service interval from the vapourbloc filter

Drain check valve allows collected oil to be returned to the crankcase. This eliminates frequent draining and significantly reduces oil consumption.

Closed Crankcase Ventilation Designed for turbocharged engines (with or without by-pass)					
Part no.	Model	Inlet position	Inlet / outlet port size inch, female thread	Maximum flow CFM	Replacement filter
301901	CCV4500-08R	Right	1-3/16" - 12 STOR	10	301906
301903	CCV4500-08L	Left	1-3/16" - 12 STOR	10	301906
301921	CCV6000-08R	Right	1-5/8" - 12 STOR	20	301926
301923	CCV6000-08L	Left	1-5/8" - 12 STOR	20	301926



301903

Open Crankcase Ventilation Designed for naturally aspirated engines (without by-pass)						
Part no.	Model	Inlet position	Inlet / outlet port size inch	Engine block check valve return fitting NPT	Maximum Flow lpm (CFM)	Replacement filter
RAC-CV4501-04L	CV4501-04L	Left	1-3/16" - STOR	1/4"	283 (10)	301906
RAC-CV4501-04R	CV4501-04R	Right	1-3/16" - STOR	1/4"	283 (10)	301906



RAC-CV4501-04R



As a guide, Racor crankcase application is determined by crankcase flow in CFM. CFM on new engines is low but as the engine wears, the CFM increases.

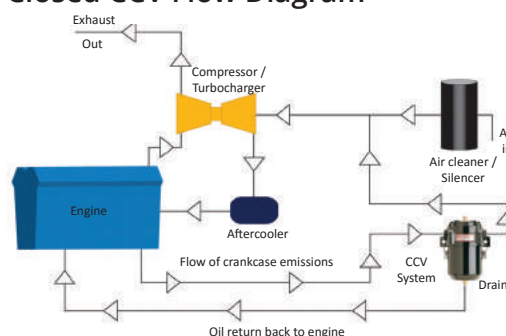
## Hose Connectors

Part no.	For hose I.D. mm (inch)	For model
301907	19 (3/4")	4500
301908	25 (1")	4500
301909	32 (1-1/4")	4500
301928	32 (1-1/4")	6000
301929	38 (1-1/2")	6000
301939	38 (1-1/2")	8000



301909

## Closed CCV Flow Diagram





## Light Duty Foam Engine Air Filters

- Helps to prevent debris and dust from entering the engine's induction system
- Constructed from chromed steel
- Supplied with a foam filter element
- Also known as pancake air filters
- Provides a silencing benefit for the air induction system
- Feature a short stub supplied with a hose clip for securing to the engine



202753



202776



For high performance engines, please consult the engine manufacturer to ensure that these air filters are acceptable for installation.

Part no.	Stub inside diameter mm	Body diameter mm	Body depth mm
202753	52	133	30
202755	58.7	133	30
202756	62	133	30
202758	70	133	30
202763	52	133	30
202773	51	133	44
202776	62	133	44
202779	74	133	44



## Heavy Duty Engine Air Filters



202353  
Stub with  
washable element

- Designed to help prevent debris and dust from entering the engine's induction system
- Constructed from painted steel
- Supplied with a cleanable foam filter element, accessed through the removable lid
- Also known as pancake air filters
- Provide a silencing benefit for the air induction system
- Feature a short stub which is suitable for hose clip fixing

Part no.	Stub inside diameter mm	Body diameter mm	Body depth mm
202353	52	155	50
202355	58.7	155	50
202358	70	155	50
202373	51	155	50
202376	62	155	50
202379	74	155	50
202386	62	155	105
202389	75	155	105



## Flexible Engine Mounts For Yanmar Engines

These R & D flexible engine mounts are designed to be a direct replacement for the Yanmar engine mounts. They have the added features of being fail-safe, working within controlled limits and able to withstand a roll-over test.

Note: Maximum clearance between the underside of the height adjusting nut and top washer must not be more than 10mm. If more height is required use a spacer under the mounting casting.



207070

Part no.	Model	Maximum load kg (lbs)	Stud	Mount pre-loaded mm	Deflection mm	Height adjusting nut thickness mm	Maximum height mm
207070	Y75	18-60 (40-130)	M16 x 1.5	2.3	2.3-8.5	12.7	155
207071	Y100	23-73 (50-160)	M16 x 1.5	2.3	2.3-8.5	12.7	155
207072	Y150	28-109 (60-240)	M16 x 1.5	2.3	2.3-8.5	12.7	155
207073	Y200	32-146 (70-320)	M16 x 1.5	2.3	2.3-8.5	12.7	155
207074	1GM10	18-60 (40-130)	M16 x 1.5	2.3	2.3-8.5	12.7	155



## Flexible Engine Mounts

Vetus flexible engine mounts, designed for use with marine engines. These flexible mountings contain a special rubber compound which has excellent damping properties, absorbing vibrations and propeller thrust. For full specifications, please see our website at [www.asap-supplies.com](http://www.asap-supplies.com)



V-KSTEUN100

Part no.	Vetus model	Maximum load kg (lbs)	Stud	Overall height mm	Base dimensions mm	Hole spacing mm
V-KSTEUN25	K25	25 (55)	M16 x 1.5	118	94 x 64	75
V-KSTEUN50	K50	50 (110)	M16 x 1.5	122	120 x 60	100
V-KSTEUN75	K75	75 (165)	M16 x 1.5	122	120 x 60	100
V-KSTEUN100	K100	100 (220)	M16 x 1.5	122	120 x 60	100



## Cotton Reel Engine Mount

### 207089

Cotton reel style of bobbin flexible engine mount with 25mm of M10 stud either end. These cotton reel engine mountings were very popular with boat builders fitting the BMC 1.5 and BMC 1.8 based diesel engines.

Diameter: 60mm

Length: 35mm rubber section

Shore hardness: 45



207089



We would suggest that these flexible mounts are fitted in pairs to ensure equal support.



## Flexible Engine Mounts

Flexible engine mounts, sometimes referred to as flexible feet, are designed to isolate vibration and noise transmission. Common applications include engines, gearboxes, gensets and drive motors. Marine engine mounts should be able to absorb the thrust of the propeller while holding the engine in line within the tolerances of the shaft coupling. We recommend that flexible engine mounts are changed in pairs, i.e. both front flexible mounts / both rear flexible mounts or all four flexible mounts.

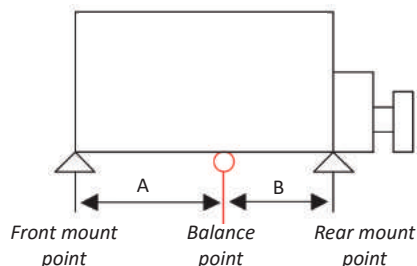
As a guide, to select the best flexible engine mountings for your application, consider the following:

Weight on each rear mount =

$$\frac{W \times a}{2 \times (A + B)}$$

Weight on each front mount =

$$\frac{W \times b}{2 \times (A + B)}$$



- Engine model and number of cylinders
- Model of gearbox and reduction ratio
- Total weight of engine and gearbox
- Is the flywheel in the conventional place between the engine and the gearbox?
- Position of the engine mountings
- Find the centre of gravity (balance point). If you cannot find the centre of gravity, then you may wish to assume that the weight distribution is 60% on the rear flexible mountings and 40% on the front flexible mountings, if the rear mounting is in line with the flywheel

Please contact us if you require any help with the correct selection for your application.

Loading per mount shown in lbs (1kg = 2.2lbs)	12mm stud	5/8" stud	3/4" stud	1" stud	Figure ref.	Typical use (see note)	Overall base length mm	Maximum base width mm	Base fixing hole centre mm	Minimum mount height to stud base* mm	Overall mount height mm
100-180	-	207003	-		1	A, C, D	130	76	102	43	118
160-370	-	207004	-		1	A, C, D	130	76	102	43	118
320-500	-	207005	-		1	A, C, D	130	76	102	43	118
80-230	-	207010	207020		2	B, C, D	127	62	102	64	137 / 165
120-410	-	207011	207021		2	B, C, D	127	62	102	64	137 / 165
250-560	-	207012	207022		2	C, D	127	62	102	64	137 / 165
340-760	-	207013	207035		3	C, D	127	85	102	60	137 / 152
300-680	-	207014	207023		2	C, D	127	62	102	64	137 / 165
500-1201	-	-	207015	207055	4	D	174.63	101.6	139.7	86.62	192 / 161.10
650-1500	-	-	207016	207056	4	D	174.63	101.6	139.7	86.62	192 / 161.10
880-2000	-	-	207017	207057	4	D	174.63	101.6	139.7	86.62	192 / 161.10
80-232	-	207024	207028		2	C, D	165	62	127	64	137 / 165
120-412	-	207025	207029		2	C, D	165	62	127	64	137 / 165
250-562	-	207026	207030		2	C, D	165	62	127	64	137 / 165
300-682	-	207027	207031		2	C, D	165	62	127	64	137 / 165
100-420	-	207032	-		6	A	181	79	102 + 140	75	153
160-670	-	207034	207042		6	A	181	79	102 + 140	75	152
190	-	207033	-		5	A, B, C	130	71	102	42	144
300	-	207036	-		5	A, B, C	130	71	102	42	144
50-175	-	207037	-		2	B, C	127	62	102	64	137
30-90	207038	207040	-		6	B	128	51	102	41	100 / 116
70-200	207039	207041	-		6	B	128	51	102	41	100 / 116

\* Minimum mount height to stud base = Minimum height excluding first adjusting nut.

A = 2 and 3 cylinder long stroke. B = 1, 2 and 3 cylinder short stroke high speed, C = 4 cylinder, D = 6 cylinder and more.

Compression mounts are lower in height and give reduced isolation compared to shear and super mounts. Clearance between the underside of the height adjusting nut and the top washer of the mount should not be more than 0.375" (9mm). If required, increase the height with a spacer under the mount. The first adjusting nut adds approximately 10mm to minimum height.



Figure 1  
Compression mount  
207004



Figure 2  
Super mount  
207014



Figure 3  
Super mount  
207035



Figure 4  
Super mount  
207017



Figure 5  
Compression mount  
207033



Figure 6  
Compression mount  
207041

## Oils and Sealants

The A.S.A.P. Drive Force range of oils and sealants, including Hylomar products. We always recommend that you follow the manufacturers instructions for use of all lubricants and sealants.



101801



101831

### Drive Force Engine & Gearbox Oil

Part no.	Description	Suitable for	Oil grade	Litres
101801	Multi-grade	Many marine diesel engine and certain marine gearboxes such as PRM	15W/40	5
101831	Universal automatic gearbox oil	Many ZF Hurth mechanical gearboxes and BorgWarner 70, 71 and 72 velvet drive gearboxes.	ATF-U	1
101835	Universal automatic gearbox oil	Many ZF Hurth mechanical gearboxes and BorgWarner 70, 71 and 72 velvet drive gearboxes.	ATF-U	5
101841	EP multi-grade	Winch and drive gears, chain drives and certain older type reduction drives.	80W / 90	1



*You should always refer to your owners manual for advice on the correct type of oil for your application.*



101701

### Castrol Engine & Gearbox Oil

Suitable for petrol and diesel engines in cars, boats and many other automotive and industrial applications. The GTX range from Castrol features lubricants that protect against sludge, which can build up with poor fuel quality, harsh weather conditions and long periods without oil changes. This sludge build up can affect performance and life of the engine if it is left untreated. Provides 25% better protection against this sludge than the latest industry standard. Castrol GTX has the following approvals and specifications: ACEA A3/B3, API SL/CF, MB-Approved 229:1, VW 505 00.

Part no.	Description	Oil grade	Litres
101701	Multi-grade	15W/40	1
101704	Multi-grade	15W/40	4



109210



109310



109330

### Drive Force Hylomar Sealants

#### 109210

Hylomar universal blue is a polyester urethane based sealant that is non-setting and non-hardening even at high temperatures. The compound is resistant to a wide range of fluids including all industrial fuels, oils and water. Enables the effective sealing of metal to metal and plastic to plastic components. Medium grade: water and oil pumps, instrument inspection covers, cylinder heads, sumps and most machined surfaces. Can be used as fuel line sealant and to seal joint faces or threaded parts, it will not fill gaps. Supplied in a 100g tube.

Hylomar 310 high temperature silicone. High temperature acetoxy curing silicone sealant is a room temperature vulcanising (RTV) sealant which has been developed specifically for high temperature applications. Once Hylomar 310 sealant is applied, it reacts with atmospheric moisture to form a tough, durable rubber seal.

Part no.	Size
109310	85g tube
109330	300ml cartridge tube

- Large gap filling properties, making it ideal for application to non-machined surfaces
- Excellent adhesion to metals, glass, ceramics and plastics
- Resistant to oil, water and lubricants and will also remain flexible to withstand vibration
- 310°C working temperature
- Colour: Red



109503



### Sikaflex Sealants

The Sikaflex adhesive sealant is suitable for all sealing jobs and adhesive applications on board your boat. Typical marine applications include: Leaks, deck fittings, hatches and bedding wooden decks to metal, wood or gelcoat. This fast drying sealant is made from 1 polyurethane based component for a flexible adhesive sealant and is touch-dry in just 45 minutes and can be sanded or painted over in 4 days. Supplied in a box of 12 x 300ml cartridges, available in white or black.

Part no.	Pack of 12	Colour
109503	109503-12	White
109504	109504-12	Black
109505	109505-12	Brown



109001

### Drive Force Applicator Gun

#### 109001

This Drive Force applicator gun is suitable for 300ml to 400ml sealant cartridges. The 10" cartridge gun has a sturdy metal construction.



99	Absorbent Pads & Pillows
98	Bilge Filters & Elements
99	Bilge Socks
99	First Response Kit
99	Fuel Collars

## Why are Bilge Discharge Filters a Green Product?

Bilge discharge filters should be installed between the bilge pump and the outlet. They remove 99.9% of oils and contaminants from the bilge water before it's pumped overboard.

A.S.A.P. Supplies has a range of bilge discharge filters which include the CleanLife and MyCelx bilge water filters. Both systems use MyCelx patented technology which makes the elements hydrophobic (they will not absorb any water). They also exceed the IMO regulations for oily bilge water discharge by removing up to 99.9% of oils and contaminants in a single pass.

The bilge discharge filters are simple and easy to install on the bilge pump discharge line without restricting bilge pump performance.



## The science bit...

MyCelx is infused so that it is homogeneously dispersed throughout the base materials. As oils and contaminants come into contact with the MyCelx they are solubilised into the infused MyCelx coating, making them hydrophobic and thickening them so they will not re-disperse into the solution. MyCelx is a non-hazardous / non-toxic material that will not dissolve or migrate in water.



## Bilge Filters

- Will remove 99.9% of oils and contaminants in the discharge water
- Approved to <5 ppm overboard discharge
- Includes 1 x CleanLife SmartPad
- Supplied with bowl spanner
- MyCelx infused element - See below for details of MyCelx
- Supplied with 1/2", 3/4" and 1" hose barbs
- ABS certified and Lloyd's register type approved
- Larger sizes available, please see [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Description	Model	Port size NPT	Body size mm			Mounting bracket	Replacement element
				h	w	d		
309100	Mini	BK0	1/2"	200	120	120	Included	309800
309101	Small	BK1	3/4"	320	120	120	Included	309801



## Bilge Filters

- Will remove 99.9% of oils and contaminants in the discharge water
- Approved to <5 ppm overboard discharge
- Includes 1 x CleanLife SmartPad (311611 includes spanner)
- MyCelx infused element - See below for details of MyCelx

Part no.	Description	Model	Port size BSP	Body size mm			Mounting bracket	Replacement element
				h	w	d		
311611	Small	BPS1	3/4"	320	120	120	Included	309801
311622*	Medium	BPS2	1-1/2"	350	180	180	311690	309802



\*The filter housing may be supplied as white or blue coloured, depending on stock.

We recommend that a small capacity pump is used in conjunction with the all the above bilge filters on a separate circuit so that small quantities of water can be processed on a regular basis. The main high capacity bilge pump(s) should be installed at a slightly higher level, in order to take over in an emergency pumping situation.

For plastic hose tails, please see page 131.

## MYCELX Replacement Elements

- Maximum operating temperature: 49°C (120°F)
- Maximum pressure rating: 120psi
- Operating pressure drop: 1psi
- Operating pH range: 3-11
- Particle pre-filtration is recommended to extend media life of these elements, see page 140 for strumboxes and pages 135-139 for strainers



309800

Larger quantities available - please see [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Per pack* -12 = pack of 12 -24 = pack of 24	For models	Length mm (inches)	Diameter mm (inches)
309800	309800-24	BK0	127 (5")	63.5 (2.5")
309801	309801-12	BK1 + BPS1	254 (10")	63.5 (2.5")
309802	-	BK2 + BPS2	254 (10")	114.3 (4.5")
309803	-	BK3 + BPS3	508 (20")	114.3 (4.5")



## Mounting Bracket



311690

### 311690

Mounting bracket suitable for securing CleanLife BPS2 and BPS3 water polishing filters.



## First Response Kit

**311510**

CleenLife oil spillage first response kit (10 litres)

The ideal first response to accidental oil or fuel spillage of up to 10 litres.

Includes the following items:

- 2 x Single weight CleenLife pads
- 2 x Double weight CleenLife pads
- 1 x CleenLife bilge sock
- 1 x CleenLife pillow
- 1 x Pair of latex gloves
- 2 x Disposable bags



*This product contains natural rubber latex gloves which may cause an allergic reaction to some individuals.*



311510



## Bilge Socks

- Designed to be left in the bilge, but must be disposed of once the sock is saturated
- Uses an advanced hydrophobic technology to absorb contaminants in the water
- It will not absorb water, just the oils and fuels floating on the water surface
- Can be used for other applications, such as small spill containment at refuelling or around workshops
- Quick and easy to deploy

Part no.	Description	Dimensions mm	Capacity per item (litres)
<b>311701</b>	Bilge sock	1200 x 76	4
<b>311701-20</b>	Bilge sock (Box of 20)	1200 x 76	4 (80)
<b>311702</b>	Bilge sock	3000 x 76	10
<b>311702-08</b>	Bilge sock (Box of 8)	3000 x 76	10 (80)



311701



## Pillow

- Uses an advanced hydrophobic technology to absorb contaminants in the water
- It will not absorb water, just the oils and fuels floating on the water surface
- Can be used for other applications, such as small spill containment at refuelling or around workshops
- Quick and easy to deploy
- Dispose of once the pillow is saturated

Part no.	Description	Dimensions mm	Capacity per item (litres)
<b>311705</b>	Pillow	380 x 230	3
<b>311705-16</b>	Pillow (Box of 16)	380 x 230	3 (48)



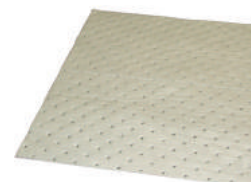
311705



## Absorbent Pads

- Suitable for all applications
- Excellent absorbency rates
- Made from high grade polypropylene for durability
- Absorb oils and contaminants
- Repel water so are an ideal spill clean-up tool
- Single weight pads are easy to use and are bonded for increased fluid retention
- Double weight pads are double the thickness and can be used on both sides

Part no.	Description	Dimensions mm	Capacity per item (litres)
<b>311802</b>	Single weight pad	400 x 500	0.5
<b>311802-10</b>	Single weight pad (Box of 10)	400 x 500	0.5 (5)
<b>311802-200</b>	Single weight pad (Box of 200)	400 x 500	0.5
<b>311804</b>	Double weight pad	400 x 500	1
<b>311804-10</b>	Double weight pad (Box of 10)	400 x 500	1 (10)
<b>311804-100</b>	Double weight pad (Box of 100)	400 x 500	1 (100)



311804

## MYCELX Fuel Collars

**309364**

MyCelx FuelKleen splash absorbing fuel collars

- Catches drips and splashes during refuelling, preventing them from hitting the water, where they can cause damage to the environment
- Forms a seal around the fuel filler to prevent any undesirable components entering your fuel tank
- Collar can be reused until it is fully saturated
- Pack of 10 available (**309364-10**)

Other environmental products are available at [www.asap-supplies.com](http://www.asap-supplies.com)

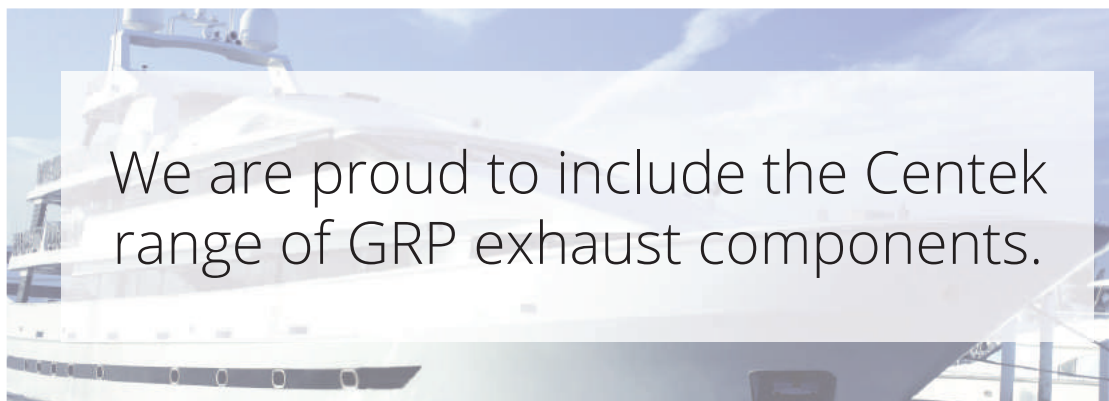


309364



# EXHAUST

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Over the past 50 years, Centek Industries engineers have custom designed over 15,000 fibreglass marine exhaust systems for boat builders worldwide. The following pages offer a range of 'standard' products, but the range is vast, catering for builder's space and noise absorption requirements.

Centek are pioneers in the design of GRP exhaust systems. From inline Vernaltone Mufflers, Vernalift, Waterlocks, Combo-Seps, Gen-Seps, through to a vast range of GRP Vernaltube and connectors. Centek offer a GRP solution to almost any exhaust installation with more GRP exhaust products than any other manufacturer.

The advantages to be gained from using Centek GRP exhaust components are:

- All fibreglass construction using the highest quality, heat resistant resins
- They can withstand overheating to 177°C (350°F)
- Corrosion resistant, unaffected by exhaust gas from petrol or diesel engines
- Each unit comes complete with fitting instructions
- Vernalift waterlock family meets ABYC specifications for lift mufflers
- Ideal for use with Gen-Sep and Combo-Sep for generator applications
- Made from GRP (Glass Reinforced Polymer) also known as FRP
- No sacrifice on quality and will always go over specification
- Very effective at reducing engine exhaust noise
- Durable, lightweight and simple to install
- Fire retardant approved materials
- Dual stage units offer exceptional noise reduction



## Product Selection

Why use fibreglass reinforced plastics to make wet exhaust marine mufflers?

- GRP will not corrode or deteriorate when exposed to gasoline or diesel fumes mixed with salt or fresh water
- Electrolysis and welds in stainless steel, which often cause early failure, are eliminated
- Resistance to higher temperatures which will not result in warping or melting often observed in some rubber or plastic mufflers

The right muffler for any given vessel should be determined by following these simple steps:

### 1. Engine Location

Engines located at or below the loaded waterline (LWL) require some type of a lift muffler, such as a Vernalift.

Engines located aft or mid ship and above the LWL can utilize a muffler of the Vernaltone family.

### 2. Exhaust System Size (Diameter)

Larger engines with higher horsepower require larger diameter exhaust systems and more space. The muffler and accompanying tubing, hose and fittings must be large enough to carry the cooling water and gases through the system without creating back pressure in excess of the engine manufacturer's recommendations. Centek's engineering expertise assures accurate sizing.

### 3. Noise Reduction

Muffler size and internal design will determine the amount of noise reduction achievable in a given installation. Larger mufflers normally provide better silencing than small mufflers. Space limitations for installations will often determine the size and type of muffler that can be used.



*Use this to work out how much water is in your exhaust hose when engine is running.*

*We advise at the very maximum, you should have 50% water in the hose. The following formula will give you how much 50% is in litres.*

*Inner radius (cm) x inner radius (cm) x length (cm) x Pi (3.14159), divided by 2, divided by 1000 = capacity (litres) of water in exhaust hose when engine is running.*

#### Bespoke Design Service

These pages of Centek products offer condensed details for the vast 'off the shelf' range of exhaust silencing products available.

Only 30% of the Centek range is standard. 70% are bespoke designs for customer requirements.

#### Not sure what you need?

Call our technical department on 01502 716993 or email [info@asap-supplies.com](mailto:info@asap-supplies.com)

## Vernatone Inline Mufflers

The Vernatone range of inline mufflers shown on this page have been designed to cater for almost any application from low speed to high performance craft, ski boats to commercial vessels. The largest range of ready to fit mufflers, combined with the ability to design and supply bespoke mufflers for production builders means that Centek can supply all your requirements for GRP exhaust components.



C 1000111



### Vernatone Round Inline Muffler

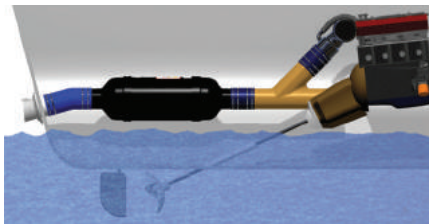
**Application:** All inboards

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above only

**Sound reduction:** 15-18dB (Depending on which engine you are using)

#### Typical Installation



Part no.	Inlet / outlet port diameter (inch)	Overall length (inch)	Body diameter (inch)	Port length (inch)
C 1000103	64mm (2.5")	549mm (21.62")	142mm (5.58")	76mm (3")
C 1000104	76mm (3")	656mm (25.84")	180mm (7.07")	89mm (3.5")
C 1000105	89mm (3.5")	762mm (30")	205mm (8.09")	89mm (3.5")
C 1000106	102mm (4")	856mm (33.69")	230mm (9.06")	89mm (3.5")
C 1000108	127mm (5")	984mm (38.75")	279mm (11")	112mm (4.4")
C 1000111	152mm (6")	1054mm (41.5")	310mm (12.2")	127mm (5")



C 1400006



### Vernatone MKII Round Inline Muffler

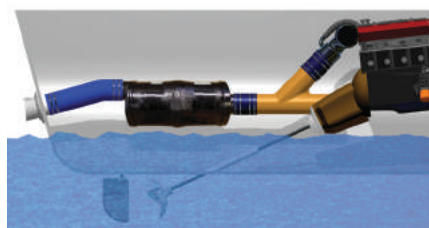
**Application:** All inboards

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above only

**Sound reduction:** 22-28dB (Depending on which engine you are using)

#### Typical Installation



Part no.	Inlet / outlet port diameter (inch)	Overall length (inch)	Body diameter (inch)	Port offset (inch)	Port length mm (inch)
C 1400003	51mm (2")	406mm (16")	162mm (6.38")	47mm (1.85")	64mm (2.5")
C 1400015	76mm (3")	483mm (19")	213mm (8.38")	60mm (2.38")	76mm (3")
C 1400017	102mm (4")	645mm (25.38")	255mm (10.04")	68mm (2.66")	102mm (4")
C 1400006	127mm (5")	800mm (31.5")	255mm (10.04")	55mm (2.16")	127mm (5")



C 1050400



### Vernatone Minimax Inline Muffler

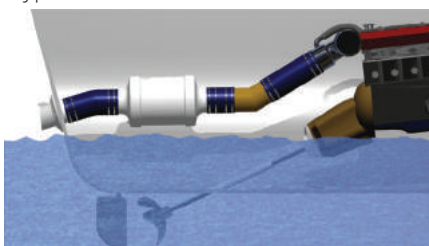
**Application:** V-drives and shortage of space

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above only

**Sound reduction:** 10-12dB (Depending on which engine you are using)

#### Typical Installation



Part no.	Inlet / outlet port diameter (inch)	Overall length (inch)	Body diameter (inch)	Port length (inch)
C 1050400	102mm (4")	425mm (16.75")	213mm (8.38")	76mm (3")
C 1050500	127mm (5")	527mm (20.75")	213mm (8.38")	89mm (3.5")

## Vernalift Waterlock Mufflers

The Vernalift waterlock family has now found homes in many varied applications and now features high temperature resin capable of handling overheating up to 177°C (350°F). It is important to size each Vernalift waterlock correctly to collect the water in the hose once the engine is switched off. If you are unsure, we can help you choose the correct unit for your application. The below are standard sizes, other sizes are available on request. Body sizes shown +/- 5%. Inlet and outlet variations, plus different body dimensions / capacities can be offered on most models.

Note: Images are for illustration purposes only - bases may be round or square depending on the model variant.



### Vernalift Waterlock Top In - Top Out

**Application:** Inboards, sailboats and generators

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above or below

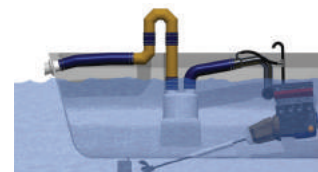
**Sound reduction:** 22-28dB (Depending on which engine you are using)

Part no.	Inlet / outlet port diameter (inch)	Body diameter (inch)	Height (inch) (excluding ports)	Port length (inch)	Square base (inch)	Capacity litres*
C 1500003	41mm (1.63")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm (9")	4.54
C 1500009	51mm (2")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm (9")	4.54
C 1500010	51mm (2")	255mm (10.04")	258mm (10.16")	64mm (2.5")	267mm (10.5")	9.08
C 1500014	60mm (2.38")	255mm (10.04")	258mm (10.16")	64mm (2.5")	309mm (12.17")	9.08
C 1500017	76mm (3")	255mm (10.04")	258mm (10.16")	76mm (3")	267mm (10.5")	9.08
C 1500063	76mm (3")	313mm (12.34")	305mm (12")	102mm (4")	305mm (12")	17.41
C 1500065	102mm (4")	313mm (12.34")	305mm (12")	102mm (4")	305mm (12")	17.41



C 1500003

Typical Installation



### Vernalift Waterlock Side Angle In - Top Out

**Application:** Inboards, sailboats and generators

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above or below

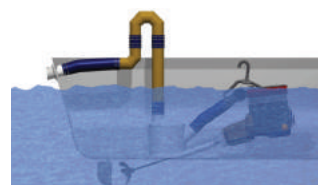
**Sound reduction:** 22-28dB (Depending on which engine you are using)

Part no.	Inlet / outlet port diameter (inch)	Body diameter (inch)	Height (inch) (excluding ports)	Port length (inch)	Square base (inch)	Capacity litres*
C 1500223	38mm (1.5")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm (9")	4.54
C 1500127	45mm (1.75")	212mm (8.36")	203mm (8")	51mm (2")	229mm (9")	4.54
C 1500107	51mm (2")	255mm (10.04")	258mm (10.16")	51mm (2")	267mm (10.5")	9.08
C 1500122	61mm (2.38")	255mm (10.04")	258mm (10.16")	51mm (2")	267mm (10.5")	9.08
C 1500112	76mm (3")	313mm (12.34")	305mm (12")	76mm (3")	305mm (12")	17.41
C 1500114	102mm (4")	313mm (12.34")	305mm (12")	102mm (4")	305mm (12")	17.41
C 1500116	127mm (5")	313mm (12.34")	305mm (12")	127mm (5")	305mm (12")	17.41



C 1500223

Typical Installation



### Vernalift Waterlock Side In - Top Out

**Application:** Inboards, sailboats and generators

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above or below

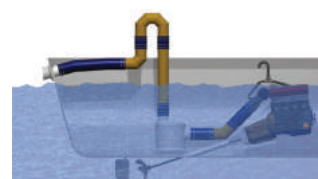
**Sound reduction:** 22-28dB (Depending on which engine you are using)

Part no.	Inlet / outlet port diameter (inch)	Body diameter (inch)	Height (inch) (excluding ports)	Port length (inch)	Square base	Capacity litres*
C 1500071	38mm (1.5")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm	4.54
C 1500020	41mm (1.63")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm	4.54
C 1500026	51mm (2")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm	4.54
C 1500027	51mm (2")	255mm (10.04")	258mm (10.16")	64mm (2.5")	267mm	9.08
C 1500030	60mm (2.38")	212mm (8.36")	203mm (8")	64mm (2.5")	229mm	4.54
C 1500031	60mm (2.38")	255mm (10.04")	258mm (10.16")	64mm (2.5")	267mm	9.08
C 1500032	64mm (2.5")	255mm (10.04")	258mm (10.16")	64mm (2.5")	267mm	9.08
C 1500034	76mm (3")	255mm (10.04")	258mm (10.16")	76mm (3")	267mm	9.08
C 1500087	89mm (3.5")	313mm (12.34")	305mm (12")	89mm (3.5")	305mm	17.41
C 1500088	102mm (4")	313mm (12.34")	305mm (12")	102mm (4")	305mm	17.41
C 1500090	127mm (5")	411mm (16.17")	406mm (16")	127mm (5")	432mm	43.91
C 1500092	152mm (6")	411mm (16.17")	406mm (16")	127mm (5")	432mm	43.91



C 1500026

Typical Installation



\*These capacities are when the waterlock is full, however these mufflers should only be half full when the engine shuts down and all the water drains back into the muffler body.



## Vernalift Waterlock Inline

**Application:** Inboards, sailboats and generators

**Fuel type:** Petrol (gasoline) / Diesel

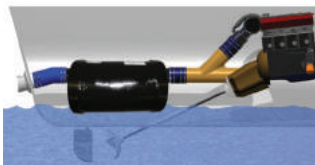
**Waterline:** Above or below

**Sound reduction:** 22-28dB (Depending on which engine you are using)



C 1500043

Typical Installation



Part no.	Inlet / outlet port diameter (inch)	Body length (inch)	Body diameter (inch)	Port length (inch)	Capacity litres*
C 1500037	41mm (1.63")	365mm (14")	212mm (8.36")	51mm (2")	9.46
C 1500038	44mm (1.75")	267mm (10.5")	162mm (6.36")	51mm (2")	3.79
C 1500039	44mm (1.75")	365mm (14")	212mm (8.36")	51mm (2")	9.46
C 1500042	51mm (2")	267mm (10.5")	162mm (6.36")	51mm (2")	3.79
C 1500043	51mm (2")	365mm (14")	212mm (8.36")	51mm (2")	9.46
C 1500044	51mm (2")	445mm (17.5")	255mm (10.04")	51mm (2")	17.79
C 1500047	60mm (2.38")	356mm (14")	212mm (8.36")	60mm (2.38")	9.46
C 1500049	64mm (2.5")	445mm (17.5")	255mm (10.04")	64mm (2.5")	17.79
C 1500051	76mm (3")	445mm (17.5")	255mm (10.04")	76mm (3")	17.79
C 1500098	102mm (4")	559mm (22")	313mm (12.34")	102mm (4")	35.20
C 1500100	127mm (5")	559mm (22")	313mm (12.34")	127mm (5")	35.20



## Vernalift Dual Stage Waterlock Side In - Side Out

These have an extra chamber inside the body to further enhance sound muffling capabilities which is the equivalent of having 2 mufflers in the system.

**Application:** Inboards

**Fuel type:** Petrol (gasoline) / Diesel

**Waterline:** Above

**Sound reduction:** 25-30dB (Depending on which engine you are using)



C 1520400

Part no.	Inlet / outlet port diameter mm (inch)	Body diameter (inch)	Height (inch)	Port length (inch)	Base (inch)	Capacity litres*
C 1520400	102mm (4")	314mm (12.36")	413mm (16.26")	102mm (4")	305mm (12")	26.49



## Gen-Sep Exhaust Gas and Water Separator

Gen-Sep separators are designed to separate exhaust gases and coolant water in a marine wet exhaust system, before discarding the water below the waterline to eliminate splash. They also act as an exhaust muffler while routing all the exhaust gas and cooling water overboard separately. They are designed for use with diesel engines and particularly useful for those located amidships or well forward in the hull. All ports are situated on the bottom of the units, with two interchangeable ports for the inlet and outlet of exhaust gases and one central outlet for water drain. Other sizes are available, please visit our website.

**Application:** Generators

**Fuel type:** Diesel

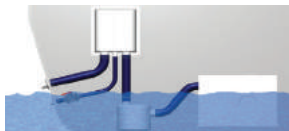
**Waterline:** Above only

**Sound reduction:** 25-30dB (Depending on which engine you are using)



C 1020150

Typical Installation



Part no.	Inlet / outlet port diameter (inch)	Water drain outlet (inch)	Overall height (inch) (Excluding ports)	Overall width (inch)	Overall depth (inch)
C 1020150	38mm (1.5")	32mm (1.25")	397mm (15.63")	314mm (12.36")	128mm (5.04")
C 1020162	41mm (1.62")	32mm (1.25")	397mm (15.63")	314mm (12.36")	128mm (5.04")
C 1020200	51mm (2")	38mm (1.25")	397mm (15.63")	314mm (12.36")	128mm (5.04")
C 1020301	76mm (3")	38mm (1.25")	521mm (20.51")	445mm (17.52")	178mm (7")



## Check Valves

These exhaust non-return valves are made from the same fibreglass and fire retardant resins used to produce Vernatube, the UL listed tubing line. They are designed to be installed in the wet exhaust hose line to help hold back a surge of water from entering through the transom. They are lightweight, strong, non-corroding, and durable. They can be installed easily and are compatible with tubing and approved marine rubber exhaust hoses. Other sizes are available, please visit our website.



C 1200403

Part no.	Inlet / outlet port diameter (inch)	Overall length	Overall diameter
C 1200403	38mm (1.5")	248mm	110mm
C 1200263	41mm (1.62")	248mm	110mm
C 1200328	51mm (2")	213mm	110mm
C 1200449	60mm (2.38")	261mm	135mm
C 1200307	64mm (2.5")	261mm	135mm

Part no.	Inlet / outlet port diameter (inch)	Overall length	Overall diameter
C 1200274	76mm (3")	261mm	135mm
C 1200411	89mm (3.5")	305mm	162mm
C 1200369	102mm (4")	305mm	162mm
C 1200377	127mm (5")	381mm	213mm

## Why Choose Vetus Exhaust Systems?

- Rotating connections and bodies for easy installation of hoses from any angle
- Excellent noise reduction combined with minimal back pressure
- Combination gooseneck / muffler and waterlock / muffler
- Exhaust mixers are also available - please see our website [www.asap-supplies.com](http://www.asap-supplies.com)

### Plastic Mufflers

- Constructed from plastic
- Designed to reduce noise from the exhaust system
- Creates additional mixing of the water inside the exhaust line to create better noise reduction
- Exhaust gas can flow freely through the muffler as the construction causes almost no resistance

Part no.	Port diameters (inch)	Overall height (inch)	Body length (inch)	Body width (inch)	Vetus code
410220	40mm (1.57")	108mm (4.25")	368mm (14.49")	158mm (6.22")	DEMPMP40
410221	45mm (1.77")	108mm (4.25")	368mm (14.49")	158mm (6.22")	DEMPMP45
410222	51mm (2")	108mm (4.25")	368mm (14.49")	158mm (6.22")	DEMPMP50
410223	60mm (2.36")	108mm (4.25")	368mm (14.49")	158mm (6.22")	DEMPMP60
410224	76mm (3")	130mm (5.12")	456mm (17.95")	180mm (7.09")	DEMPMP75



410223

### Plastic Waterlocks

- Constructed from plastic
- The design prevents water flowing back down the exhaust line to the engine when it is switched off
- Coolant water and exhaust gas enter the inlet on one side of the waterlock and exit on the other side after going through the specially designed inside shape

Part no.	Inlet / outlet connections (inch)	Inlet port type	Overall height (inch)	Body length (inch)	Body width (inch)	Capacity litres	Vetus code
410302	40mm (1.57")	Rotating	211mm (8.31")	372mm (14.65")	110mm (4.33")	4.3	WLOCKL40R
410304	45mm (1.77")	Rotating	211mm (8.31")	372mm (14.65")	110mm (4.33")	4.3	WLOCKL45R
410336	50mm (1.97")	Rotating	225mm (8.86")	430mm (16.93")	152mm (5")	7.5	LSS50A
410306	50mm (2")	Rotating	211mm (8.31")	372mm (14.65")	110mm (4.33")	4.3	WLOCKL50R
410307	50mm (2")	Fixed	290mm (11.42")	530mm (20.87")	138mm (5.43")	10.5	WLOCKL50S
410308	60mm (2.36")	Fixed	290mm (11.42")	530mm (20.87")	138mm (5.43")	10.5	WLOCKL60
410309	75mm (3")	Fixed	290mm (11.42")	530mm (20.87")	138mm (5.43")	10.5	WLOCKL75



410302

### Dual Stage Waterlocks

- Made from synthetic materials
- Due to the design of the waterlocks, they also act as an exhaust sound muffler
- Feature dual stage functionality, consisting of one lower chamber and one upper chamber. Coolant water and exhaust gas enter the inlet in the bottom chamber, travel up through the central riser tube and then exit through the outlet in the top chamber
- Upper chamber and inlet and outlet connections can be rotated 360°
- The design prevents water flowing back down the exhaust line to the engine when it is switched off
- Supplied with mounting straps to secure it in place, as well as drain plugs to help with winter storage

Part no.	Inlet / outlet connections (inch)	Overall width (inch)	Overall height (inch)	Body width (inch)	Capacity litres	Vetus code
V-NLP40	40mm (1.57")	385mm (15.16")	254mm (10")	165mm (6.5")	4.5	NLP40
V-NLP45	45mm (1.75")	385mm (15.16")	254mm (10")	165mm (6.5")	4.5	NLP45
V-NLP50	50mm (2")	385mm (15.16")	254mm (10")	165mm (6.5")	4.5	NLP50
V-NLP60	60mm (2.36")	515mm (20.28")	362mm (14.37")	210mm (8.27")	10	NLP60
V-NLP75	75mm (3")	362mm (14.25")	210mm (8.27")	515mm (20.27")	10	NLP75



V-NLP50

### Goosenecks

- Constructed from plastic
- Raises the exhaust hose line above the waterline so water will flow downwards to the lowest point where the waterlock should be situated
- Designed to stop water backflow towards the engine in a wet exhaust system

Part no.	Port diameters (inch)	Overall height (inch)	Body depth (inch)	Body width (inch)	Vetus code
410100	40mm (1.57")	502mm (19.76")	182mm (7.17")	135mm (5.32")	LT40
410101	45mm (1.77")	502mm (19.76")	182mm (7.17")	135mm (5.32")	LT45
410102	50mm (2")	502mm (19.76")	182mm (7.17")	135mm (5.32")	LT50
410103	60mm (2.36")	502mm (19.76")	182mm (7.17")	135mm (5.32")	LT60



410100

Vetus exhaust system components listed on this page are designed for use in wet exhaust systems only. **The maximum temperature for continuous usage of Vetus plastic parts for exhaust systems is 70°C / 150°F.** This page offers basic information only for these items, for more information please visit our website at [www.asap-supplies.com](http://www.asap-supplies.com). For high performance engines, the MGL, MGP and MGS versions are available.

## GRP Hose Connectors

Spun GRP connectors for connecting different wet exhaust hose diameters. If the size you need is not listed, please contact us as we may be able to help. The GRP reducing hose connectors are also available in 45° and 90°, please see our website - [www.asap-supplies.com](http://www.asap-supplies.com)



### Straight Connectors



C 1200618



C 1200510

Straight Connectors Small Lengths		
Part no.	Hose I.D. (inch)	Length (inch)
C 1200608	38mm (1.5")	175mm (6.89")
C 1200696	40mm (1.61")	175mm (6.89")
C 1200610	45mm (1.75")	175mm (6.89")
C 1200611	51mm (2")	200mm (7.87")
C 1200679	57mm (2.24")	200mm (7.87")
C 1200612	60mm (2.38")	200mm (7.87")
C 1200613	64mm (2.5")	200mm (7.87")
C 1200580	76mm (3")	150mm (5.91")
C 1200614	76mm (3")	250mm (9.84")
C 1200615	89mm (3.5")	250mm (9.84")
C 1200616	102mm (4")	300mm (11.81")
C 1200618	127mm (5")	300mm (11.81")
C 1200619	152mm (6")	350mm (13.78")

Straight Connectors Metre Lengths		
1.5 metre	3 metres	Hose I.D. (inch)
C 1100525	-	25mm (1")
C 1200508	C 1100521	38mm (1.5")
C 1200510	C 1100522	41mm (1.62")
C 1200861	C 1100523	44mm (1.75")
C 1200512	C 1100512	51mm (2")
C 1200865	C 1100511	60mm (2.38")
C 1200544	C 1100501	65mm (2.5")
C 1200541	C 1100502	76mm (3")
C 1200514	C 1100503	89mm (3.5")
C 1200516	C 1100504	102mm (4")
C 1200518	C 1100506	127mm (5")
C 1200520	C 1100507	152mm (6")



### Elbow Connectors



C 1200192



C 1200195



C 1200333

45° Elbows	90° Elbows	180° Elbows	Hose I.D. (inch)
-	C 1200376	-	25mm (1")
-	C 1200555	-	32mm (1.25")
C 1200217	C 1200202	C 1200353	38mm (1.5")
-	C 1200698	C 1200699	40mm (1.6")
C 1200349	C 1200312	C 1200355	45mm (1.75")
C 1200192	C 1200200	C 1200333	51mm (2")
C 1200350	C 1200330	C 1200357	57mm (2.24")
C 1200308	C 1200269	C 1200358	60mm (2.38")
C 1200215	C 1200195	C 1200359	64mm (2.5")
C 1200109	C 1200171	C 1200199	76mm (3")
C 1200111	C 1200189	C 1200361	89mm (3.5")
C 1200112	C 1200157	C 1200334	102mm (4")
C 1200113	C 1200175	C 1200402	127mm (5")
C 1200114	C 1200162	C 1200399	152mm (6")



### GRP Reducing Straight Hose Connectors



C 1200431

Part no.	Largest diameter (inch)	Smallest diameter (inch)	Length (inch)
C 1200390	41mm (1.61")	38mm (1.5")	152mm (6")
C 1200435	44mm (1.73")	38mm (1.5")	152mm (6")
C 1200533	44mm (1.73")	41mm (1.62")	127mm (5")
C 1200410	51mm (2")	38mm (1.5")	157mm (6.18")
C 1200266	51mm (2")	41mm (1.61")	76mm (3")
C 1200394	51mm (2")	44mm (1.73")	152mm (6")
C 1200430	57mm (2.25")	51mm (2")	152mm (6")
C 1200396	60mm (2.38")	51mm (2")	127mm (5")
C 1200431	60mm (2.38")	57mm (2.25")	152mm (6")
C 1200277	64mm (2.5")	51mm (2")	108mm (4.25")
C 1200264	76mm (3")	51mm (2")	203mm (8")

Part no.	Largest diameter (inch)	Smallest diameter (inch)	Length (inch)
C 1200264	76mm (3")	51mm (2")	203 (8")
C 1200451	76mm (3")	60mm (2.38")	216mm (8.5")
C 1200270	76mm (3")	64mm (2.5")	216mm (8.5")
C 1200161	89mm (3.5")	76mm (3")	241mm (9.5")
C 1200170	102mm (4")	76mm (3")	254mm (10")
C 1200222	102mm (4")	89mm (3.5")	267mm (10.5")
C 1200223	127mm (5")	102mm (4")	305mm (12")
C 1200227	127mm (5")	114mm (4.5")	318mm (12.5")
C 1200265	152mm (6")	102mm (4")	356mm (14")
C 1200148	152mm (6")	127mm (5")	356mm (14")

### Crush Sleeves



If the first GRP exhaust component is under one metre from the engine exhaust mixture installing a crush sleeve aids low engine speed heat dissipation. Also, these are useful to help prevent distortion due to over tightening of hose clamps. See our website for more details at [www.asap-supplies.com](http://www.asap-supplies.com)



### 'Y' Fittings and Chambers

GRP 'Y' piece designed to fit at the engine end of the exhaust hose with a chamber to prevent water surging into the engine. Please see our website for more information at [www.asap-supplies.com](http://www.asap-supplies.com)



## Through Hull Exhaust Fittings With Flapper Valve

- Made from glass reinforced plastic (GRP) in black or white finish
- Fitted with a flapper to help prevent water entering the wrong way into the exhaust line when moving slowly or stopping
- Allows exhaust fumes and cooling water out as normal
- Features a slightly longer lip at the bottom to help steer water away from the transom of the boat, therefore avoiding ugly water marks
- Flange comes with 4 bolt holes for mounting

Black GRP	White GRP	Spare flap	Hose diameter (inch)	Flange diameter	External length	Internal length	Overall length
C 1200301	C 1200300	C 1200344	51mm (2")	89mm	44mm	70mm	114mm
C 1200299	C 1200298	C 1200313	76mm (3")	124mm	64mm	76mm	140mm
C 1200325	C 1200326	C 1200340	102mm (4")	152mm	83mm	114mm	197mm
C 1200343	C 1200342	C 1200345	127mm (5")	191mm	87mm	143mm	230mm



C 1200301



C 1200300

## SEAFLOW Exhaust Outlet With Flap

- Seaflow stainless steel exhaust outlet
- Fitted with non-return rubber protector flap
- Made of mirror polished AISI 316 stainless steel
- Mounted with 4 x 6mm folding studs (studs not included)

Part no.	Exhaust hose size (inch)	Flange outside diameter	Net opening	Neck length
411100	40mm (1.57")	75mm	35mm	75mm
411101	45mm (1.77")	75mm	40mm	75mm
411102	50mm (1.96")	100mm	45mm	80mm
411104	60mm (2.36")	100mm	55mm	80mm
411106	75mm (2.95")	131mm	67mm	100mm
411107	90mm (3.54")	131mm	73mm	110mm
411108	100mm (3.93")	182mm	90mm	120mm



411106

## SEAFLOW Exhaust Outlets

- High quality stainless steel marine exhaust outlet with a high polished fixing flange
- Designed for mounting through the hull or transom of the boat
- Suitable for use with wet marine exhaust systems
- The 45° outlet is designed to help prevent water flowing into the system
- Both feature an angled outlet so the water can be directed away from the boat therefore reducing the chances of water marks

45° outlet	Straight outlet	Exhaust hose size (inch)
411670	411650	40mm (1.57")
411671	411651	45mm (1.77")
411672	411652	51mm (2")
411673	411653	57mm (2.24")
-	411654	60mm (2.36")
411675	411655	63mm (2.48")
411676	411656	76mm (3")
-	411657	89mm (3.5")
411678	411658	102mm (4")



411678



411650



## Exhaust Guard Covers

- Quietlife protecting end cover for through hull exhaust outlets
- Made from tough rubber
- Flap acts as a check valve to help prevent sea water entering the exhaust outlet and flowing towards the engine
- Adjustable to two different sizes - The larger size shown is a standard size and the smaller size can be achieved by removing the marked section on the fixing ring
- A stainless steel hose clip is also supplied, which can adjust to secure the exhaust flap whether it is at standard size or cut size



409457

Part no.	To suit transom outlet size	
	Size (inch)	Cut size (inch)
409454	51mm (2")	40mm (1.57")
409455	76mm (3")	63mm (2.5")
409456	102mm (4")	89mm (3.5")
409457	152mm (6")	127mm (5")

## SEAFLOW Rubber Exhaust Outlet

### 411694

- Constructed from a tough black rubber
- Complete with a stainless steel trim ring
- Suitable for exhaust hose sizes from 60mm - 70mm I.D. and 50mm - 60mm O.D.



411694



The use of the connector / support sleeve is recommended.



## Fittings & Through Hull Outlets

CR (DZR) brass, bronze and stainless 316 through hull fittings make excellent exhaust outlets. The threaded body means you can fit it to a ball valve where applications call for the exhaust to be closed when the engine is not running. Please see Fittings, Valves and Strainers section, page 112.



403057



410023



403643



V-XHI12B

## Vetus Exhaust Temperature Alarms

- Designed for water injected exhaust systems
- Provides a visual and an audible alarm when the temperature inside the exhaust hose or the muffler exceeds an acceptable level
- The temperature sensors are to be fitted into the exhaust hose or a Vetus waterlock / muffler and the alarm unit must be ordered separately
- In the case of a twin engine installation 2 sensors may be connected to 1 alarm unit if so required
- One sensor may also serve two alarm units, e.g. in the case of a second steering position

Part no.	Volts	Sender (Hose mount)	Sender (Muffler mount)
V-XHI12B	12V	413158	413159
V-XHI24B	24V	413158	413159

## SEAFLOW Superflex Marine Exhaust Hose

- Suitable for the discharging of wet exhaust gas
- Suitable for wet exhaust systems only
- Not only tough, but also extremely flexible to help make the installation as easy as possible
- Approved to R.I.N.A. and Lloyd's register specification
- Black corrugated cover is resistant to abrasion, oils and marine agents
- Self-extinguishing CB / NBR rubber
- The reinforcement is by double wire helix and textile plies
- Inside is finished smooth NBR rubber
- Temperature range: -25°C to +120°C
- Working pressure: 43.5 PSI (3 bar)
- Burst pressure: 130 PSI (9 bar)
- Available in coils or per metre cut from a coil
- Other sizes available, please contact us or visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)



412591



Use this to work out how much water is in your exhaust hose when engine is running.

We advise at the very maximum, you should have 50% water in the hose.

Inner radius (cm) x inner radius (cm) x length (cm) x Pi (3.14159), divided by 2, divided by 1000 = capacity (litres) of water in exhaust hose when engine is running.

Per metre	Per coil 10 metres	Per coil 20 metres	I.D. mm (inch)	O.D. mm	Inner bend radius mm	Stainless steel 316 superclamp to suit
412519	-	412519-20	19mm (3/4")	29mm	80mm	416804
412525	-	412525-20	25mm (1")	34mm	100mm	416805
412530	-	412530-20	30mm (1-3/16")	38mm	120mm	416806
412532	412532-10	412532-20	32mm (1-1/4")	40mm	130mm	416807
412538	412538-10	412538-20	38mm (1-1/2")	46mm	150mm	416808
412540	412540-10	412540-20	40mm (1-9/16")	48mm	160mm	416809
412545	412545-10	412545-20	45mm (1-3/4")	53mm	180mm	416810
412551	412551-10	412551-20	51mm (2")	60mm	200mm	416812
412555	412555-10	412555-20	55mm (2-1/6")	65mm	220mm	416813
412560	412560-10	412560-20	60mm (2-3/8")	70mm	240mm	416814
412563	412563-10	412563-20	63mm (2-1/2")	74mm	250mm	416815
412570	412570-10	412570-20	70mm (2-3/4")	80mm	280mm	416816
412576	412576-10	412576-20	76mm (3")	86mm	300mm	416816
412589	412589-10	412589-20	89mm (3-1/2")	102mm	360mm	416819
412591	412591-10	412591-20	102mm (4")	114mm	400mm	416821
412592	412592-10	-	110mm (4-3/8")	122mm	440mm	416822
412594	412594-10	-	114mm (4-1/2")	126mm	460mm	416822
412593	412593-10	412593-20	127mm (5")	139mm	500mm	416823
412595	412595-10	-	152mm (6")	165mm	825mm	416826
412597	412597-10	-	203mm (8")	219mm	1200mm	416830

## Vetus Anti-Siphon Devices



V-ASDH



V-ASDV

For Vetus anti-siphon devices, please see Fittings, Valves & Strainers section, pages 134-135.



## Brass Anti-Siphon Loop and Siphon Break Valve



410031



410023

For full details on Anti-Siphon Loops, Break Valves and complete kits, please see Fittings, Valves & Strainers section, page 134.

## ExoWrap - Exhaust Lagging

- Available in tape roll or blanket form
- A quick and easy way to insulate high temperature surfaces in the engine room
- Apply in one step therefore eliminating the time consuming job of putting on layers of insulation
- ExoWrap is rated for use to 1,000°C maximum and can be used throughout the engine room
- ExoWrap is a revolutionary system made from biosoluble vitreous silicate fibre, reinforced with an outer jacket of heat sealed aluminium foil



### ExoWrap Tape Blanket



413886



413888

Part no.	Width	Length	Thickness	Securing silhesive tape
413886	300mm	7.7 metres	25mm	413889
413888	600mm	7.7 metres	25mm	413889



### ExoWrap Tape Roll



413882



413884

Part no.	Width	Length	Thickness	Securing silhesive tape
413882	50mm	7.7 metres	3mm	413889
413884	100mm	3.3 metres	12mm	413889



### Silhesive Tape

413889

Quietlife ExoWrap silhesive tape for securing ExoWrap lagging. This is not like ordinary tape, it needs to be worked in and moulded to get the ideal result.

Width: 100mm

Length: 15 metres



413889



### Exhaust Lagging

- Glass webbing
- Asbestos free lagging tape
- For insulating dry exhaust pipes, exhaust manifolds and hot water pipes
- Rated up to 550°C
- Available in 10 and 30 metre coils



413801-10

10 metres	30 metres	Width	Thickness
413801-10	413801-30	40mm	3mm
413805-10	413805-30	50mm	3mm
413807-10	413807-30	75mm	3mm
413803-10	413803-30	25mm	25mm



413803-10

413810

Quietlife exhaust asbestos free lagging sheet with 'o' foil facing. Sheet size: 1m<sup>2</sup>, sheet thickness: 1.7mm, rated up to 500°C.



413810



### Dry Exhaust Piping

- Flexible exhaust piping for dry exhausts
- Sold in 2 metre lengths
- Designed to run inline as a flexible section in-between engine and rigid pipe
- If bent to an extreme angle, this product may not be gas tight
- Please see our website for more sizes at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	I.D. (inches)
417701	25mm (1")
417702	28mm (1-1/8")
417703	32mm (1-1/4")
417704	35mm (1-3/8")
417705	38mm (1-1/2")
417707	45mm (1-3/4")
417709	51mm (2")
417711	57mm (2-1/4")
417712	60mm (2-3/8")
417713	63mm (2-1/2")



417701



### Exhaust Bellows

Constructed from stainless steel 321 with steel end cuffs suitable for welding. The bellows fit between the engine and the pipe and absorbs engine vibrations as well as eliminating the expansion of exhaust pipes. Exhaust bellows are not suitable for absorbing engine movement when the engine is fitted on flexible engine mounts.



413911

Part no.	Nominal bore (inch)	Cuff I.D.	Cuff O.D.	Length
413903	25mm (1")	27mm	33.5mm	155mm
413905	32mm (1-1/4")	37mm	42mm	205mm
413907	38mm (1-1/2")	43mm	48mm	205mm
413909	51mm (2")	54mm	60mm	245mm
413911	63mm (2-1/2")	70mm	76mm	245mm
413913	76mm (3")	81mm	88mm	245mm
413917	102mm (4")	106.5mm	114.5mm	245mm
413921	127mm (5")	132mm	140mm	245mm
413925	152mm (6")	157mm	168mm	245mm



### Rain Caps

These mild steel rain caps can be used to prevent rain water and other debris from entering a vertically mounted dry exhaust outlet. These rain caps clamp to the outside of the pipe spigot and have a hinged lid which will open to allow the exhaust gas out, but will close once the exhaust gas flow stops. Other sizes are available, please visit [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	For pipe size (inch)
417500	38mm (1-1/2")
417501	51mm (2")
417502	64mm (2-1/2")
417503	76mm (3")
417504	88mm (3-1/2")



417500

## Dry Exhaust Silencers

For many commercial and narrow boat applications, a dry exhaust silencer system is the only option. Similar to an automotive design, marine dry exhaust silencers are generally of a heavier construction and available in various levels of noise reducing ability. This is because of the requirements of live aboard applications and comfort requirements where owners require minimum noise levels.

Depending on the level of noise reduction required the Quietlife range offers 3 dry exhaust silencer options. To complement these we offer flanges, flexible exhaust piping, flexible weld bellows, rain caps and non-asbestos lagging. We have shown the range of Quietlife silencers which we hold in stock. Special custom designs and larger sizes are available, please contact sales or visit [www.asap-supplies.com](http://www.asap-supplies.com)



### 112 Exhaust Silencers

#### Medium duty

The Quietlife 112 series of dry exhaust silencers are made from welded steel and are rated medium duty for noise absorption. The gases pass through a centre duct which is surrounded by sound absorbent material and is subjected to a minimal level of resistance. For more heavy duty requirements and attenuation graph, please see online at [www.asap-supplies.com](http://www.asap-supplies.com)



417006

BSP male ends	Flange ends	Nominal bore mm (inch)	Body length mm	Body diameter mm
417005	-	25 (1")	381	89
417006	-	32 (1-1/4")	381	89
417007	-	38 (1-1/2")	610	121
417008	-	51 (2")	762	133
417009	-	63.5 (2-1/2")	762	152
417010	417060	76 (3")	762	178



### 114 Exhaust Silencers

#### Residential

More noise absorption than medium duty version above. The Quietlife 114 series of dry exhaust silencers are made from welded steel and are rated residential for increased noise absorption. These silencers incorporate an expansion and multi pass section to attenuate the lower frequency sounds and a sound absorption section to attenuate the higher frequency sounds. Attenuation graph shown online at [www.asap-supplies.com](http://www.asap-supplies.com)



417108

BSP male ends	Flange ends	Nominal bore mm (inch)	Body length mm	Body diameter mm
417107	-	38 (1-1/2")	470	121
417108	-	51 (2")	635	140
417109	-	63.5 (2-1/2")	749	178
417110	417160	76 (3")	876	203



### 116 Exhaust Silencers

#### High attenuator

For excellent noise absorption. The Quietlife 116 series of dry exhaust silencers are made from welded steel and are rated high attenuation for excellent noise absorption. These silencers incorporate a multiple pass section to smooth the gas flow and a sound absorption section to attenuate the higher frequency sounds. They are suitable where great sound attenuation is required and where space is available. Attenuation graph shown online at [www.asap-supplies.com](http://www.asap-supplies.com)



417108

BSP male ends	Nominal bore mm (inch)	Body length mm	Body diameter mm
417207	38 (1-1/2")	559	121
417208	51 (2")	762	133
417209	63.5 (2-1/2")	889	178
417210	76 (3")	1000	203



### Flanges and Gaskets

- To suit the Quietlife range of dry exhaust silencers
- Designed to be welded on
- All flanges are to suit nominal pipe diameter, to table D dimensions
- Supplied singularly. You would normally use two per silencer



417558

Part no.	Table D for BSP nominal bore	Gasket
417557	1-1/2"	417577
417558	2"	417578
417559	2-1/2"	417579
417560	3"	417580

BS 10 Table D Dimensions

Flange size, designation (Nominal bore pipe)	Overall diameter of flange	Flange thickness	Bolt circle diameter	No. of bolts	Diameter of bolts
1-1/2"	5-1/4"	1/4"	3-7/8"	4	1/2"
2"	6"	5/16"	4-1/2"	4	5/8"
2-1/2"	6-1/2"	5/16"	5"	4	5/8"
3"	7-1/4"	3/8"	5-3/4"	4	5/8"

Bolt hole diameters are as follows:

For 1/2" and 5/8" bolts, the bolt hole shall be 1/16" larger than the bolt diameter. For 3/4" bolts and larger, the bolt hole shall be no more than 1/8" larger than the bolt diameter.

## SEAFLOW Multi-Choice Water Injection Bends

Engine manufacturers supply water injected exhaust outlets in a wide variety of styles, shapes and sizes. The problem may be that the replacement you require is no longer available, it is very expensive, or the position of the outlet is not in the best place to suit your engine room layout.

With these factors in mind we have designed the Seaflow multi-choice water injection bends (WIB's) which give you the opportunity to select the components to build a water injected exhaust outlet to suit your engine installations particular application.

**To build your Seaflow multi-choice system follow these simple steps:**

Step 1.  
Choose your water injection bend (WIB) layout



Step 2.  
Choose flange to suit your manifold

Part no.	Flange size mm	PCD range & slot size	BSP Thread
219710	85 x 85	60-92mm, 11mm slot	1-1/2" BSPM stub 50-55mm long
219711	90 x 90	Undrilled	1-1/2" BSPM stub 50-55mm long
219812	100 x 100	87-112mm, 12mm slot	2" BSPF



Step 3.  
Select spray head by using the exhaust hose I.D.

Part no.	A. BSP male (manifold side)	B. Exhaust I.D.	C. Water feed BSP female
2187345	1-1/2"	45mm	1/2"
2187351	1-1/2"	51mm	1/2"
2187360	1-1/2"	60mm	1/2"
2188463	2"	63mm	3/4"
2188475	2"	75mm	3/4"



Step 4.  
Select raw water hose connection to suit water feed diameter



See pages 115, 119, 121 and 126 for BSP elbows.



See pages 116, 119, 121, 127 and 131 for hose tails.

## SEAFLOW Standard Outlets and Gaskets

Standard fixed engine exhaust outlets are usually found bolted to the engine exhaust manifold. The water injected exhaust outlet mixes the engine exhaust gas and raw water coolant before it enters into the flexible wet exhaust system.

Due to the mixing of exhaust gas and raw water in this component it is advisable to include an inspection of the exhaust system as part of your list of jobs before leaving port, as corrosion may occur over a period of time.



Part no.	Outlet mm	Feed pipe mm	Flange information	Gasket to suit
202021	51	22	4 bolt, 93mm PCD. FSD425 Bowman	202921
202025	51	32	4 bolt, 81mm PCD. Small Bowman.	202938
202030	51	32	4 bolt, 76 x 92mm. 4108 Bowman	202930
202031	76	28	4 bolt, 98mm PCD. Perkins 4236 + 6354 Bowman	-
202032	51	22	4 bolt, 81mm PCD. Small Bowman	202938
202038	76	32	6 bolt, 96mm PCD. Round Bowman water-cooled manifold Ford.	202941
202040	76	28	4 bolt, 112mm PCD. Bowman FM Ford.	202940

## SEAFLOW Outlet Gasket

Part no.	Flange information
202902	4 bolt, 101mm PCD
202921	4 bolt, 93mm PCD. FSD425 Bowman
202930	4 bolt, 76 x 62mm. Perkins 4108
202937	4 bolt, 96mm PCD
202938	4 bolt, 81mm PCD. Small Bowman
202940	4 bolt, 112mm PCD. Bowman FM Ford
202941	6 bolt, 96mm PCD. Round Bowman



*For safety, we recommend that all exposed hot surfaces are lagged by using Quietlife glass webbing, see page 109.*



*Seal all joints with Hylomar 310 high temperature sealant, see pictured or equivalent - see page 96.*



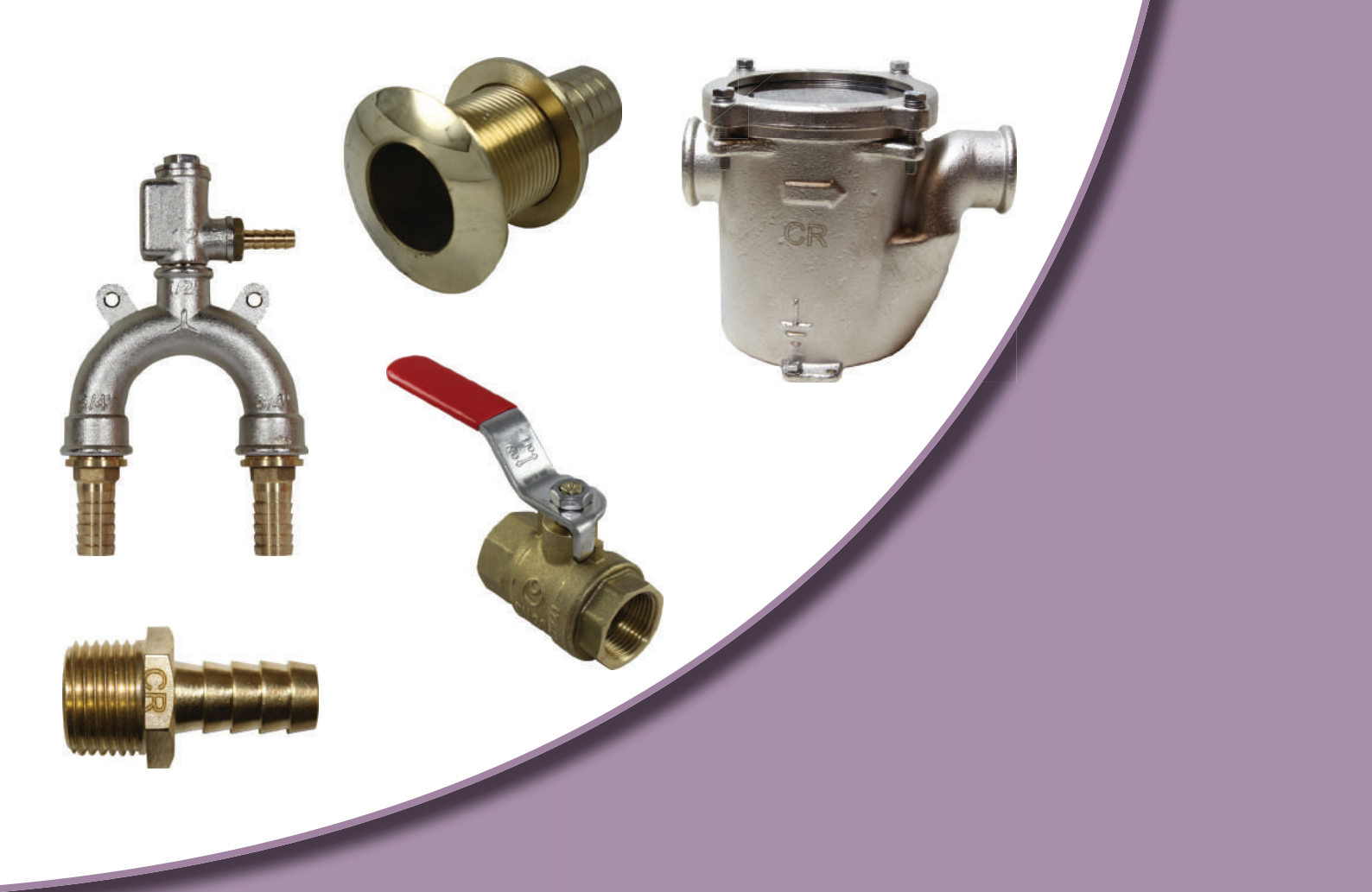
## SEAFLOW Pipe Repair Kits

Complete kit for making emergency repairs to a wide variety of pipe materials, including exhausts.

For pipe repair kits, please see Hose section, page 184.



425002



# FITTINGS, VALVES & STRAINERS

Brass Fittings & Valves	122-127
Bronze Fittings & Valves	117-119
CR (DZR) Fittings & Valves	113-116
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Gas Equipment	141
Nuts	129
Pump Strainers	139
Scuppers	132
Strum Boxes	140
Water Filters	139
Water Strainers	135-139

Composition	Min	Max.
Copper	61%	63%
Aluminium	-	0.05%
Arsenic	0.02%	0.15%
Iron	-	0.1%
Manganese	-	0.1%
Nickel	-	0.3%
Lead	1.7%	2.8%
Tin	-	0.1%
Zinc	Remainder	
Other elements	-	0.2%

## CR (DZR) Brass

### Why use CR (DZR) brass and can it be used below the water line on marine applications?

Corrosion Resistant (CR) brass or De-zincification Resistant (DZR) brass would seem as though they are two different metals, when they are actually the same. They are a type of brass that is designed to be used in harsh water applications, and are therefore suitable for use below the waterline on through hull fittings subject to the correct installation and hull material.

To combat the de-zincification effect, raw materials are added to the compound and the fittings are heat treated during manufacture which ensures that the material will satisfy the requirements of the standard dezincification-resistance test. The reason they are put through this process is so that the zinc which is included in the compound of the metal during manufacture resists leaching out when in contact with salt water. This electrolytic corrosion is what causes fittings, seacocks or strainers to become brittle and fail. Other materials are available such as bronze or stainless steel; both can be used below the waterline on salt water applications. CR (DZR) brass offers a more cost effective option whilst still giving you the security of a having a good quality fitting which won't deteriorate like a standard brass fitting would. CR (DZR) brass is made to an international standard CW602N and should carry the 'CR' (Corrosion Resistant) marking.



All fittings used for through hull applications must be correctly electrically bonded to ensure protection from electrolytic corrosion.



## CR (DZR) Brass Threaded Skin Fittings

These skin fittings connect to a threaded pipe and are designed for through hull applications.

Domed head	Inclined head	Flat head	Thread BSP male	Thread length mm	Head outside diameter mm
403202	403252	-	3/8"	58	34
403203	403253	403223	1/2"	63.5	40
403204	403254	403224	3/4"	72	49
403205	403255	403225	1"	77	56
403206	403256	403226	1-1/4"	83	65
403207	403257	403227	1-1/2"	84.5	72
403208	403258	403228	2"	102	84
403209	403259	-	2-1/2"	132	112
403210	403260	-	3"	148	128



403205  
Domed head



403256  
Inclined head



403223  
Flat head

## CR (DZR) Brass Hose Tail Skin Fittings

These skin fittings connect to a hose and are designed for through hull applications.

DZR brass	Thread BSP male	For hose I.D. mm	Overall length mm	Head outside diameter mm
403642	3/8"	13	58	34
403643	1/2"	19	63.5	40
403303	3/4"	19	90	44
403644	3/4"	24	72	49
403304	1"	25	93	54
403645	1"	30	77	56
403305	1-1/4"	31	94	64
403646	1-1/4"	38	83	65
403306	1-1/2"	38	102	72
403647	1-1/2"	44	84.5	72
403648	2"	56	102	84



403305

## SEAFLW Chromed CR (DZR) Brass Hose Tail Skin Fittings

These skin fittings connect to a hose and are designed for through hull applications.

Chromed DZR brass	Thread BSP male	For hose I.D. mm	Overall length mm	Head outside diameter mm
403403	3/4"	19	90	44
403404	1"	25	93	54
403405	1-1/4"	31	94	64
403406	1-1/2"	38	102	72



403406



## CR (DZR) Brass Circular Intake Gratings

Maestrini CR (DZR) brass circular shaped intake grate with full slot holes.



402623

Part no.	O.D. mm	I.D. mm	Height mm	Fits skin fitting size (inch)	Grate spacing mm
402623	90	66	17	1-1/4"	3
402626	120	85	23	2"	3
402629	180	130	35	3"	3



## CR (DZR) Brass Drain Scuppers

Designed for installation at deck level to drain off sea water or rain water.



511105

Part no.	Thread BSP male	Overall length mm	Thread length mm	Scupper depth mm
511103	1/2"	97	72.5	46.5
511104	3/4"	107	82	54
511105	1"	103	77	56.5
511106	1-1/4"	105	79	64
511107	1-1/2"	113	82	69



## CR (DZR) Brass Water Intake Scoop Strainers

Here is our range of CR (DZR) brass scoop strainers designed for raw water intake systems. These scoops are available in a range of styles and sizes, making them useful for different applications.



402505



402524



40256\*

Oval scoops suitable for most engine intakes.

Full slot scoops - suitable for static intakes such as toilets and gensets.

Drilled hole scoops - suitable for sailing boats and filtering more debris.

Oval scoop	Thread BSP male	Thread length mm	Grating length mm	Overall height mm
402502	3/8"	70.5	80	91
402503	1/2"	72.5	91	97
402504	3/4"	82	105	107
402505	1"	77	108	104.5
402506	1-1/4"	79	118	105
402507	1-1/2"	82	133	113
402508	2"	92	157	128

Full slot scoop	Thread BSP male	Thread length mm	Grating length mm	Overall height mm
402522	3/8"	71	79	93
402523	1/2"	72.5	91	98.5
402524	3/4"	80	105	105
402525	1"	77	108	104.5
402526	1-1/4"	77	118	105
402527	1-1/2"	84	133	115
402528	2"	89.5	154	124

Drilled hole scoop	Thread BSP male	Thread length mm	Grating length mm	Overall height mm
402564	3/4"	77	105	103
402565	1"	77	108	103
402566	1-1/4"	79	118	105
402567	1-1/2"	80	133	112
402568	2"	91	157	128



For CR (DZR) Brass Countersunk Deck Drains, please see page 133

## CR (DZR) Brass Ball Valves

- Suitable for hot or cold water, steam, petrol (gasoline), fuel, oil, kerosene and compressed air
- Can be used for sea water inlets and outlets
- Lever handle on top which requires a 1/4 turn for on / off action
- These ball valves are full bore, meaning no restriction to flow when fully opened



405704

Part no.	Thread BSP female	Valve length mm	Handle length mm	Overall height mm
405701	1/4"	45	97	47
405702	3/8"	45	93	52
405703	1/2"	54	104	67
405704	3/4"	61	105	73
405705	1"	72	142	83
405706	1-1/4"	82	142	94
405707	1-1/2"	94	160	107
405708	2"	112	162	116
405709	2-1/2"	160	175	150

## BLAKES CR (DZR) Brass Intake / Outlet Seacock Valves

- Unique built in grease nipples to allow in-water servicing
- Can be disassembled for overhaul
- Structurally sound
- Left or right hand operation with positive on / off handle
- Blakes seacocks are manufactured from the highest grade marine grade metals
- Tested and proven design for GRP, steel, wood and ferrocement hull materials

Part no.	Hose mm (inch)	Height mm (from top of Flange)	Nut, bolt and plate kit
402204*	19 (3/4")	94	402204-1
402207	38 (1-1/2")	118	402207-1

\*Supplied with a strainer plate for water intakes.

### 402209

Small tub of grease 500g



## CR (DZR) Brass Plumbing Fittings

The Maestrini range of CR (DZR) brass fittings are made from a brass alloy which is suitable for use below the waterline due to its corrosion resistant properties.



Thread BSP	Compact elbow 45° Female - Female	Compact elbow 45° Male - Female	Compact elbow 90° Female - Female	Compact elbow 90° Male - Female	Tee piece equal Female	Equal hexagon nipple Male - Male	Tapered plug Male	Socket Female - Female	Lock nut	Washers
1/4"	-	-	-	-	-	434601	434751	-	-	-
3/8"	434082	434092	434002	434042	434102	434602	434752	434202	434302	434802
1/2"	434083	434093	434003	434043	434103	434603	434753	434203	434303	434803
3/4"	434084	434094	434004	434044	434104	434604	434754	434204	434304	434804
1"	434085	434095	434005	434045	434105	434605	434755	434205	434305	434805
1-1/4"	434086	434096	434006	434046	434106	434606	434756	434206	434306	434806
1-1/2"	434087	434097	434007	434047	434107	434607	434757	434207	434307	434807
2"	434088	434098	434008	434048	434108	434608	434758	434208	434308	434808
2-1/2"	434089	434099	434009	434049	434109	434609	434759	434209	-	434809
3"	-	-	434010	434050	-	434610	-	434210	-	-



Running Nipple		
Part no.	Thread BSP equal Male	Length mm
407652	3/8"	100
407653	1/2"	100
407654	3/4"	100
407655	1"	100
407656	1-1/4"	150
407657	1-1/2"	150

Reducing Nipple		
Part no.	Thread BSP Tapered Male	
434622	1/2" to 3/8"	
434623	3/4" to 1/2"	
434634	1" to 1/2"	
434624	1" to 3/4"	
434625	1-1/4" to 1"	
434626	1-1/2" to 1-1/4"	
434637	2" to 1-1/4"	
434627	2" to 1-1/2"	

Hexagon Reducing Bush		
Part no.	Thread BSP Male	Thread BSP Female
434507	1/2"	3/8"
434514	3/4"	1/2"
434518	1"	1/2"
434519	1"	3/4"
434524	1-1/4"	1"
434530	1-1/2"	1"
434531	1-1/2"	1-1/4"
434536	2"	1-1/4"
434537	2"	1-1/2"
434540	2-1/2"	2"

Hexagon Reducing Adaptor		
Part no.	Thread BSP Female	Thread BSP Male
434682	1/2"	3/8"
434683	3/4"	1/2"
434694	1"	1/2"
434684	1"	3/4"
434695	1-1/4"	3/4"
434685	1-1/4"	1"
434696	1-1/2"	1"
434686	1-1/2"	1-1/4"
434697	2"	1-1/4"
434687	2"	1-1/2"

## CR (DZR) Brass Hose Tails



Male



Female



Male



Female

SEAFLOW



404657

Straight Hose Tails			
Male thread	Female thread	BSP thread	For hose mm
435103	-	1/8"	6
435105	-	1/8"	8
435107	-	1/8"	10
435113	-	1/4"	6
435114	435214	1/4"	8
435115	435215	1/4"	10
435116	-	1/4"	12
435117	-	1/4"	13
435121	-	3/8"	8
435122	435223	3/8"	10
435123	435224	3/8"	12
435124	435225	3/8"	13
435125	-	3/8"	14
435126	-	3/8"	15
435127	-	3/8"	16
435128	-	3/8"	18
435129	-	3/8"	20
435130	-	1/2"	8
435131	435231	1/2"	10
435132	435232	1/2"	12
435133	435233	1/2"	13
435134	-	1/2"	14
435135	435235	1/2"	15
435136	435236	1/2"	16
435037	-	1/2"	18
435038	-	1/2"	19
435039	435238	1/2"	20
435141	-	3/4"	10
435142	-	3/4"	13
435043	435243	3/4"	16
435144	-	3/4"	18
435045	-	3/4"	19

Straight Hose Tails			
Male thread	Female thread	BSP thread	For hose mm
435046	435245	3/4"	20
435047	435247	3/4"	25
435051	-	1"	13
435052	-	1"	19
435053	-	1"	20
435054	435254	1"	25
435055	-	1"	27
435056	435256	1"	30
435057	-	1"	32
435058	-	1"	33
435059	-	1"	35
435061	-	1-1/4"	25
435062	435263	1-1/4"	30
435063	435264	1-1/4"	32
435064	-	1-1/4"	33
435065	-	1-1/4"	35
435066	435266	1-1/4"	38
435067	435267	1-1/4"	40
435072	-	1-1/2"	25
435073	-	1-1/2"	32
435074	435274	1-1/2"	38
435075	-	1-1/2"	39
435076	435275	1-1/2"	40
435077	-	1-1/2"	45
435078	435278	1-1/2"	50
435084	435284	2"	50
435085	-	2"	51
435088	-	2"	60
435090	-	2-1/2"	60
435091	-	2-1/2"	63
435092	-	2-1/2"	64
435094	-	2-1/2"	75
435096	-	3"	76

Straight Tapered Hose Tails		
Male thread	BSPT thread	For hose mm
404631	1/2"	10
404633	1/2"	13
404636	1/2"	16
404638	1/2"	19
404641	3/4"	10
404642	3/4"	13
404643	3/4"	16
404645	3/4"	19
404647	3/4"	25
404651	1"	13
404653	1"	19
404654	1"	25
404657	1"	32
404661	1-1/4"	19
404662	1-1/4"	25
404663	1-1/4"	32
404666	1-1/4"	38
404672	1-1/2"	25
404673	1-1/2"	32
404674	1-1/2"	38
404678	1-1/2"	51
404684	2"	51
404688	2"	61

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90° Female Hose Tails		
Part no.	Thread BSP Female	For hose I.D. mm
404920	3/8"	13
404922	1/2"	19
404924	3/4"	25
404926	1"	32

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90° Male Hose Tails		
Part no.	Thread BSP Male	For hose I.D. mm
404912	1/2"	19
404914	3/4"	25
404916	1"	32
404918	1-1/4"	38

SEAFLOW



45° Male Hose Tails		
Part no.	Thread BSP Male	For hose I.D. mm
404902	1/2"	19
404904	3/4"	25
404906	1"	32
404908	1-1/4"	38

Composition	Min	Max.
Copper	83%	86.5%
Nickel	-	2%
Lead	4.2%	5.8%
Tin	4.2%	6%
Zinc	4.5%	6.5%
Phosphorus	-	0.03%
Other elements	-	0.60%

## Bronze

Specification for bronze plumbing connections are as listed. This is also known as Gunmetal LG2 which is highly suitable for salt water use.

### Why use bronze fittings?

- Bronze is suitable for below waterline through hull applications
- Is tough and corrosion resistant making it suitable for exposure to sea water



## Bronze Threaded Skin Fittings

These skin fittings connect to a threaded pipe and are designed for through hull applications. Supplied with a bronze threaded fixing nut.

Standard Thread				
Inclined	Domed head	Thread BSP male	Thread length mm	Head outside diameter mm
403103	403123	1/2"	63	40
403104	403124	3/4"	72	49
403105	403125	1"	77	56
403106	403126	1-1/4"	82	65
403107	403127	1-1/2"	84.5	71
403108	403128	2"	100	84
403109	403129	2-1/2"	132	112



403104  
Inclined head



403127  
Domed head

- Features a traditional domed head style
- Supplied with a bronze fixing nut
- Suitable for commercial applications as well as leisure

Long Thread			
Domed head	Thread BSP male	Thread length mm	Head O.D. mm
403804	3/4"	120	49
403805	1"	120	56
403806	1-1/4"	120	65
403807	1-1/2"	120	72

Extra Long Thread			
Domed head	Thread BSP male	Thread length mm	Head O.D. mm
403825	1"	240	65
403826	1-1/4"	240	75
403827	1-1/2"	240	85
403828	2"	240	100



403805  
Long thread  
Domed head



403826  
Extra long thread  
Domed head

## SEAFLOW Bronze Hose Tail Skin Fitting

This skin fitting connects to a hose and is designed for through hull applications.

Part no.	Thread BSP male	For hose I.D. mm	Thread length mm	Head O.D. mm
403308	2"	51	77	93



403308



## Bronze Oval Intake Gratings

Designed for water intake systems. These strainers are made from bronze and can be fitted over a bronze skin fitting to create a scoop strainer. The slotted design helps with water intake and also acts as a filter for debris. They feature 4 screw holes to fix to the bottom of the boat with a recess for the skin fitting.

Part no.	Recommended skin fittings	Length mm	Width mm	Overall height mm
402665	1"	122	66	27
402666	1-1/4"	135	78	36
402667	1-1/2"	159	93	40
402668	2"	190	105	56
402669	2-1/2"	223	134	58



402666



## Bronze Water Intake Scoop Strainers

These strainers are designed for raw water intake systems such as those used for high speed vessels. The scoop fits through the hull with the grating on the outside and the male threaded pipe leading inside, usually to a valve to open and close the intake.

The wedge scoop gratings can be secured to the hull using a screw although it is recommended to use a marine sealant as well. All are supplied with a back locking nut and washer.



402457

Part no.	Thread BSP male	Thread length mm	Grating length mm	Overall height mm
402453	1/2"	74	91	98
402454	3/4"	78.5	104	103.5
402455	1"	81.5	107	108
402456	1-1/4"	89	118	117
402457	1-1/2"	99	133	130
402458	2"	109	152	144

## PERKO® Bronze Intake / Outlet Seacock Valves

Perko Seacocks utilise a quarter turn ball valve for simple on / off operation. Components are cast in bronze, making Perko seacocks suitable for below waterline applications on boats. Perko seacocks are certified Marine UL Listed Std: 1121

They all include a through hull fitting, mounting plate, ball valve assembly and hose tail connector.

The ball valves feature a drain bung for winter drain down and a handle which can be easily removed for storage. The ball valves, balls and seats are plastic for smooth operation.



420107

Part no.	For hose I.D. mm (inch)	Flange diameter mm	Height* mm
420104	19 (3/4")	83	127
420105	25 (1")	111	137
420107	38 (1-1/2")	140	168
420108	51 (2")	146	200

\*Height is measured from the top of the hose tail to the bottom of the flange.



## Sikaflex General Purpose Sealant and Adhesive

The Sikaflex 291 adhesive sealant is suitable for all sealing jobs and adhesive applications on board your boat. Typical marine applications include: Leaks, deck fittings, hatches and bedding wooden decks to metal, wood or gelcoat.

- Fast drying
- Touch-dry in just 45 minutes and can be sanded or painted over in 4 days

Part no. Individual	Part no. Pack of 12	Colour
109503	109503-12	White
109504	109504-12	Black
109505	109505-12	Brown



109503



109001

## Drive Force Applicator Gun

### 109001

This Drive Force applicator gun is suitable for 300ml to 400ml sealant cartridges. The 10" cartridge gun has a sturdy metal construction.



## Bronze Body Ball Valves



405723

Bronze bodied ball valves are on page 124.



407999

## SEAFLUX PTFE Thread Tape

- Ideal material for leak proof joints
- Use on steel, alloy, copper, plastic and ceramics
- Unaffected by virtually all known chemicals and solvents
- Suitable for food, water, chemicals, steam, oil and air lines

Part no.	Length metres	Width mm
407999	12	12

## Bronze Plumbing Fittings



Thread BSP	Compact elbow 90° Female - Female	Compact elbow 90° Male - Female	Tee piece equal Female	Equal hexagon nipple Male - Male	Tapered plug Male	Socket Female - Female	Flanged lock nut
3/8"	-	-	-	-	415752	-	-
1/2"	415003	415043	415103	415603	415753	415203	415323
3/4"	415004	415044	415104	415604	415754	415204	415324
1"	415005	415045	415105	415605	415755	415205	415325
1-1/4"	415006	415046	415106	415606	415756	415206	415326
1-1/2"	415007	415047	415107	415607	415757	415207	415327
2"	415008	415048	415108	415608	415758	415208	415328



Straight Male Hose Tails		
Part no.	Thread BSP male	For hose I.D. mm
404133	1/2"	13
404145	3/4"	19
404147	3/4"	25
404154	1"	25
404157	1"	32
404163	1-1/4"	32
404166	1-1/4"	38
404174	1-1/2"	38
404178	1-1/2"	51
404184	2"	51

Straight and 90° Cap and Tail Hose Tails			
Straight	90°	Thread BSP female	For hose I.D. mm
404533	404733	1/2"	13
404545	404745	3/4"	19
404554	404754	1"	25
404574	-	1-1/2"	38

90° Female Hose Tails		
Part no.	Thread BSP female	For hose I.D. mm
404354	1"	25
404363	1-1/4"	32
404374	1-1/2"	38
404384	2"	51

90° Male Hose Tails		
Part no.	Thread BSP female	For hose I.D. mm
404333	1/2"	13
404345	3/4"	19



Blanking Cap	
Part no.	Thread BSP Female
415702	3/8"
415703	1/2"
415704	3/4"
415705	1"



Hexagon Nipple	
Part no.	BSP Male
415622	1/2" to 3/8"
415623	3/4" to 1/2"
415624	1" to 3/4"
415625	1-1/4" to 1"
415626	1-1/2" to 1-1/4"
415627	2" to 1-1/2"



Hexagon Reducing Bush		
Part no.	BSP Male	BSP Female
415507	1/2"	3/8"
415512	3/4"	1/4"
415513	3/4"	3/8"
415514	3/4"	1/2"
415517	1"	3/8"
415518	1"	1/2"
415519	1"	3/4"
415523	1-1/4"	3/4"
415524	1-1/4"	1"
415529	1-1/2"	3/4"
415530	1-1/2"	1"
415531	1-1/2"	1-1/4"
415536	2"	1-1/4"
415537	2"	1-1/2"
415540	2-1/2"	2"

## Stainless Steel 316

### Why use stainless steel 316 fittings?

- Resistant to corrosion
- Maintenance and replacement costs are lower
- Suitable for exposure to sea water



All fittings used for through hull applications must be correctly electrically bonded to ensure protection from electrolytic corrosion. Stainless steel 316 is suitable for below waterline through hull applications.

Composition	Min	Max.
Carbon	16%	18%
Chromium	16%	18%
Molybdenum	<2%	3%
Silicone	-	0.75%
Phosphorus	-	0.05%
Sulphur	-	0.03%
Nickel	10%	14%
Manganese	-	2%
Nitrogen	-	0.1%
Iron	Remainder	

### SEAFLOW Stainless Steel 316 Threaded Skin Fittings

These skin fittings connect to a threaded pipe and are designed for through hull applications. Supplied with a locking nut and a bonding washer.



403527

Standard thread			
Part no.	Thread BSP male	Thread length mm	Head O.D. mm
403522	3/8"	53	35
403523	1/2"	59	39
403524	3/4"	68	49
403525	1"	73	55
403526	1-1/4"	77	65
403527	1-1/2"	80	71
403528	2"	95	84



403555

Long thread			
Part no.	Thread BSP male	Thread length mm	Head O.D. mm
403555	1"	107	55
403556	1-1/4"	112	64
403557	1-1/2"	112	71

### SEAFLOW Stainless Steel 316 Hose Tail Skin Fittings

These skin fittings connect to a hose and are designed for through hull applications.



403582

Part no.	Thread BSP male	For hose I.D. mm	Overall length mm	Head O.D. mm
403582	3/8"	15	53	35
403583	1/2"	19	59	39
403584	3/4"	24	68	49
403585	1"	30	73	55
403586	1-1/4"	38	77	65
403587	1-1/2"	45	80	71

### SEAFLOW Stainless Steel 316 Water Intake Scoop Strainer

- Scoop with machined slots
- Supplied with BSP back nut and bonding washer
- Oval grating



402474

### SEAFLOW Stainless Steel 316 Countersunk Deck Drains

These drains feature a hose tail fitting and an open well with no grate. They are supplied with mirror polished ground connections and a fixing nut and washer.



511037

Part no.	Thread BSP Male	For hose I.D. mm
511034	1/2"	19
511035	3/4"	25
511036	1"	30
511037	1-1/4"	38
511038	1-1/2"	45

Part no.	Thread BSP male	Thread length mm	Overall height mm
402472	3/8"	72	95
402473	1/2"	72	100
402474	3/4"	81	108
402475	1"	78	105
402476	1-1/4"	77	106
402477	1-1/2"	80	112
402478	2"	89	124
402479	2-1/2"	108	155

### SEAFLOW Stainless Steel 316 Cockpit Drains



511048



511054

- Constructed from 316 stainless steel
- Removable grate to allow for easy cleaning and maintenance

Part no.	Shape	Dimensions mm	Hose outlet mm	Angle outlet	Built in non-return valve
511048	Round	92 diameter	40	45°	Yes
511054	Oval	190 x 92	38	90°	No

## SEAFLOW Stainless Steel 316 Ball Valves

These ball valves are suitable for hot water, steam, petrol (gasoline), fuel, oil, gas oil, kerosene and compressed air. They have a lever handle on top which requires a 1/4 turn for on / off action. The stainless lever handle comes with a rubber grip cover. Other sizes available see [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	T Port	Thread BSP female
405752	405462	3/8"
405753	405463	1/2"
405754	405464	3/4"
405755	405465	1"
405756	405466	1-1/4"
405757	405467	1-1/2"
405758	405468	2"



405757



405463

## SEAFLOW Stainless Steel 316 Plumbing Fittings



Thread BSP	Compact elbow 45° Female - Female	Compact elbow 90° Female - Female	Compact elbow 90° Male - Female	Tee piece equal Female	Nipple Male - Male	Hexagon Tapered plug Male	Socket Female - Female
3/8"	423082	423002	423042	423102	423602	423752	423202
1/2"	423083	423003	423043	423103	423603	423753	423203
3/4"	423084	423004	423044	423104	423604	423754	423204
1"	423085	423005	423045	423105	423605	423755	423205
1-1/4"	423086	423006	423046	423106	423606	423756	423206
1-1/2"	423087	423007	423047	423107	423607	423757	423207
2"	-	423008	423048	423108	423608	423758	423208

Hexagon Reducing Bush		
Part no.	Thread BSP Male	Thread BSP Female
423504	3/8"	1/4"
423507	1/2"	3/8"
423514	3/4"	1/2"
423519	1"	3/4"
423524	1-1/4"	1"
423531	1-1/2"	1-1/4"
423537	2"	1-1/2"
423540	2-1/2"	2"
423546	3"	2-1/2"

## SEAFLOW Stainless Steel 316 Hose Tails



Straight Male Hose Tail		
Part no.	Thread BSP Male	For hose I.D. mm
422624	3/8"	12
422627	3/8"	15
422634	1/2"	15
422638	1/2"	20
422645	3/4"	20
422647	3/4"	25
422654	1"	25
422656	1"	30
422664	1-1/4"	35
422666	1-1/4"	38
422667	1-1/4"	40
422675	1-1/2"	40
422676	1-1/2"	45
422684	2"	50
422688	2"	60
422698	3"	78

Straight Female Hose Tail		
Part no.	Thread BSP Female	For hose I.D. mm
422227	3/8"	15
422234	1/2"	15
422238	1/2"	20
422245	3/4"	20
422247	3/4"	25
422254	1"	25
422256	1"	30
422264	1-1/4"	35
422267	1-1/4"	40
422276	1-1/2"	45
422284	2"	50

90° Male Hose Tail		
Part no.	Thread BSP Male	For hose I.D. mm
422327	3/8"	15
422338	1/2"	20
422347	3/4"	25
422356	1"	30
422366	1-1/4"	38

90° Female Hose Tail		
Part no.	Thread BSP Female	For hose I.D. mm
422737	1/2"	19
422747	3/4"	25
422756	1"	30
422766	1-1/4"	38
422785	2"	56

## Brass

### Why use brass fittings?

The exact specification of brass changes both for different forms of application but also different manufacturing methods. i.e. hot stamping, casting, shell mounting, cold forming etc. On the right is an approximate material specification. **Brass is susceptible to dezincification** and therefore it is not recommended for seawater use.

CW614N Brass			CW617N Brass		
Composition	Min	Max.	Composition	Min	Max.
Copper	57%	59%	Copper	57%	59%
Aluminium	-	0.05%	Aluminium	-	0.05%
Iron	-	0.3%	Iron	-	0.3%
Nickel	-	0.3%	Nickel	-	0.3%
Lead	2.5%	3.5%	Lead	1.36%	2.5%
Tin	-	0.3%	Tin	-	0.3%
Zinc	Remainder		Zinc	Remainder	
Other elements	-	0.2%	Other elements	-	0.2%



## Brass Threaded Skin Fittings

Maestrini threaded skin fittings made from brass. These skin fittings connect to a threaded pipe and are designed for through hull applications.



Domed head	Flat head	Inclined head	Thread BSP Male	Thread length mm	Head O.D. mm
403001	-	403051	1/4"	55	24.5
403002	-	403052	3/8"	58	34
403003	403023	403053	1/2"	63.5	40
403004	403024	403054	3/4"	72	49
403005	403025	403055	1"	77	58
403006	403026	403056	1-1/4"	83	65
403007	403027	403057	1-1/2"	84.5	72
403008	403028	403058	2"	102	84
403009	-	403059	2-1/2"	132	112



## Chromed Brass Threaded Skin Fittings

Maestrini threaded skin fittings made from chrome plated brass. These skin fittings connect to a threaded pipe and are designed for through hull applications. These skin fittings feature a traditional domed head style and are supplied with a fixing nut.



Part no.	Thread BSP Male	Overall thread length mm	Head O.D. mm
403441	1/4"	55	24.5
403442	3/8"	58	34
403443	1/2"	63.5	40
403444	3/4"	72	49
403445	1"	77	56
403446	1-1/4"	83	65
403447	1-1/2"	84.5	72
403448	2"	102	84

## SEAFLOW Brass Hose Tail Skin Fittings

Seaflo hose tail skin fittings made from brass. These skin fittings connect to a hose and are designed for through hull applications.



Brass	BSP	For hose I.D. mm	Overall length mm	Head diameter mm
403302	3/8"	15	57	34
403307	1-1/2"	45	96	72

Chromed brass	BSP	For hose I.D. mm	Overall length mm	Head diameter mm
403483	1/2"	19	60	40

## SEAFLOW Brass Circular Intake Gratings

Seaflo circular intake strainer plates made from brass. These strainer grates are designed for raw water intake systems such as those used in sailing boat engine coolant. Designed to be secured to the outside of the boat over a through hull skin fitting to prevent debris entering the intake system. Can be secured to the hull using four screws, although it is recommended to use a marine sealant as well. Please ensure the inside diameter of these strainer plates will fit over the outside diameter of your skin fitting.

Scoop grate	Full slot grate	I.D. mm	O.D. mm
402600	-	33	60
402602	402632	54	80
402604	402634	73	100
-	402636	85	120
402606	-	96	120
402608	402638	121	150



These are not suitable for Seawater applications.



402604  
Scoop grate



402638  
Full slot grate



## Brass Countersunk Deck Drains

Maestrini straight deck drains constructed from brass. These drains feature a threaded fitting and an open well with no grate. They are supplied with a fixing nut and washer.

Part no.	Thread BSP Male	Thread length mm
511002	3/8"	53
511003	1/2"	58
511004	3/4"	66
511005	1"	71
511006	1-1/4"	77
511007	1-1/2"	78
511008	2"	95



511005

## SEAFLOW Brass Ball Valves

- 1/4 turn positive on / off action
- Threaded BSP Female or Male / Female
- Lever handle / tee handle / lockable safety valve
- Mounting bracket for smaller valves
- Suitable for hot water, steam, petrol (gasoline), fuel, oil, kerosene and compressed air



Size	Lever handle Female - Female	Lever handle Male - Female	Tee handle Female - Female	Tee handle Male - Female	Bracket
1/4"	405001	405101	405201	405301	405951
3/8"	405002	405102	405202	405302	405952
1/2"	405003	405103	405203	405303	405953
3/4"	405004	405104	405204	405304	-
1"	405005	405105	405205	405305	-
1-1/4"	405006	405106	-	-	-
1-1/2"	405007	405107	-	-	-
2"	405008	405108	-	-	-

## SEAFLOW PTFE Thread Tape

- Ideal material for leak proof joints
- Use on steel, alloy, copper, plastic and ceramics
- Unaffected by virtually all known chemicals and solvents
- Suitable for food, water, chemicals, steam, oil and air lines

Part no.	Length metres	Width mm
407999	12	12



407999



## Bronze Body Ball Valves

Maestrini range of plumbing valves and fittings and can be turned into a cost effective seacock from using them with a suitable through hull skin fitting, locked in place with a lock nut, and then using a bronze hose tail connector.

These bronze body ball valves feature a stainless steel (AST430) handle and handle nut with a non slip grip. The ball valve body is made from CC491K bronze and the female ports are threaded BSP. The ball sealing gaskets are PTFE. The ball is chrome plated CW617 brass. The valve shaft and packing body are brass CW617.

Can be used below the waterline depending on application and installation.

For applications: -10°C min to +120°C max  
 Sizes 1/4" to 2" max 500 psi  
 Sizes 2-1/2" to 4" max 400 psi



405723

Part no.	Thread BSP Female
405721	1/4"
405722	3/8"
405723	1/2"
405724	3/4"
405725	1"
405726	1-1/4"
405727	1-1/2"
405728	2"
405729	2-1/2"

## Brass Gate Valves

- Gate valve with red pressed steel wheel handle
- Internal components are brass
- Full bore valves
- Threaded female BSP parallel
- Bronze meets the ISO 228 standards

Please contact our sales department or visit our website [www.asap-supplies.com](http://www.asap-supplies.com) for other valves.



406103

Brass	Bronze body	Thread BSP Female	Spare handle
-	406101	1/4"	-
406002	406102	3/8"	-
406003	406103	1/2"	406953
406004	406104	3/4"	406954
406005	406105	1"	406955
406006	406106	1-1/4"	406956
406007	406107	1-1/2"	406957
406008	406108	2"	-



## Brass 'T' Port Ball Valves

- Nickel plated brass T-port valves
- Ideal for installations where multiple lines are required from one tank
- Suitable for diesel and petrol (gasoline) applications
- T-port configuration allows one threaded female port to feed in, and two threaded female ports to feed out, which can be opened as one outlet on or both outlets on

We also supply compression fittings, hose tails and fittings to complete your installation. These ball valves have a full bore meaning there is no restriction. Reduced passage T-port valves are available at [www.asap-supplies.com](http://www.asap-supplies.com)



405523

Part no.	Thread BSP Female
405522	3/8"
405523	1/2"
405524	3/4"
405525	1"
405526	1-1/4"
405527	1-1/2"



## Brass 'L' Port Ball Valves

- Nickel plated brass L port valve
- Ideal for installations where multiple lines are required from one tank
- Suitable for diesel and petrol (gasoline) applications
- The L port configuration allows one threaded female port to feed in, and two threaded female ports to feed out, which can be operated one at a time, but not together

We also supply compression fittings, hose tails and fittings to complete your installation. These ball valves have a full bore meaning there is no restriction. Reduced passage L-port valves are available at [www.asap-supplies.com](http://www.asap-supplies.com)



405423

Part no.	Thread BSP Female
405422	3/8"
405423	1/2"
405424	3/4"
405425	1"
405426	1-1/4"
405427	1-1/2"
405428	2"



407999

## SEAFLUX PTFE Thread Tape

- Ideal material for leak proof joints
- Use on steel, alloy, copper, plastic and ceramics
- Unaffected by virtually all known chemicals and solvents
- Suitable for food, water, chemicals, steam, oil and air lines

Part no.	Length metres	Width mm
407999	12	12

## Brass Inline Flap Check Valves

- Suitable for vertical / horizontal mounting
  - Comes with metal seat
- Larger sizes available, please see our website [www.asap-supplies.com](http://www.asap-supplies.com)



406707

Part no.	Thread BSP female
406702	3/8"
406703	1/2"
406704	3/4"
406705	1"
406706	1-1/4"
406707	1-1/2"
406708	2"

## Brass Inline Spring Check Valves

- Suitable for hot water, diesel, oils and compressed air
- Inline spring operated for universal mounting
- Body hot pressed brass



406607

Part no.	Thread BSP Female	Length mm
406602	3/8"	45
406603	1/2"	48
406604	3/4"	53
406605	1"	59
406606	1-1/4"	66
406607	1-1/2"	71



## Brass Foot Valves

- Constructed from brass
- This foot valve has a slotted base which can be removed for easy cleaning if required
- The threaded BSP female port is suitable for connection to a pipe or hose tail

Part no.	Thread BSP Female
406803	1/2"
406804	3/4"
406805	1"
406806	1-1/4"
406807	1-1/2"
406808	2"



406808



## Brass Self Closing Push Button Valve

- Only opened when the operating button is pushed
- Push button valve is spring loaded to automatically return to the off position when button is not depressed
- Ideal for applications such as tank sight glasses, or air purge, where a valve must never be left open

Part no.	Thread BSP Female	Maximum pressure bar
304002	3/8"	16



304002

## SEAFLOW Brass Bulkhead Mounted Ball Valve

- Long handle stem and a brass body with chromed handle
- Suitable for a maximum bulkhead thickness of 25mm
- This allows the valve to be mounted behind a bulkhead

Part no.	Thread BSP Female	For bulkhead thickness up to mm
405943	1/2"	25



405943



## Brass Pipe Manifolds With Male Inlet Ports



407943

Part no.	End port BSP male / female	Inlet port BSP male	Manifold length mm	Distance between inlet hole centres mm
407942	1 x 3/4" (m) 1 x 3/4" (fm)	2 x 1/2"	83	36
407943	1 x 3/4" (m) 1 x 3/4" (fm)	3 x 1/2"	119	36
407944	1 x 3/4" (m) 1 x 3/4" (fm)	4 x 1/2"	155	36
407952	1 x 1" (m) 1 x 1" (fm)	2 x 1/2"	83	36
407954	1 x 1" (m) 1 x 1" (fm)	4 x 1/2"	155	36



## Brass Pipe Manifolds With Female Inlet Ports



407903

Part no.	End port thread BSP female	Inlet port sizes BSP female	Manifold length mm	Distance between inlet hole centres mm
407902	2 x 3/4"	2 x 1/2"	100	50
407903	2 x 3/4"	3 x 1/2"	150	50
407904	2 x 3/4"	4 x 1/2"	200	50
407912	2 x 1"	2 x 1/2"	100	50
407913	2 x 1"	3 x 1/2"	150	50
407914	2 x 1"	4 x 1/2"	200	50

## Brass Plumbing Fittings



BSP	Compact elbow 45° Female - Female	Compact elbow 45° Male - Female	Compact elbow 90° Female - Female	Compact elbow 90° Male - Female	Swept elbow 90° Female - Female	Swept elbow 90° Male - Female	Tee piece equal Female	Y piece equal Female
1/8"	407080	-	407000	407040	-	-	407100	-
1/4"	407081	-	407001	407041	-	-	407101	-
3/8"	407082	407092	407002	407042	407022	407062	407102	407142
1/2"	407083	407093	407003	407043	407023	407063	407103	407143
3/4"	407084	407094	407004	407044	407024	407064	407104	407144
1"	407085	407095	407005	407045	407025	407065	407105	-
1-1/4"	407086	407096	407006	407046	407026	407066	407106	-
1-1/2"	407087	407097	407007	407047	407027	407067	407107	407147
2"	407088	407098	407008	407048	407028	407068	407108	-



BSP	Equal cross Female	Short nipple equal Male	Hexagon nipple equal Male	Plug tapered Male	Equal socket Female - Female	Cap Female	Lock nut	Flanged lock nut	Washers
1/8"	-	407670	407600	407750	407200	407700	407300	-	-
1/4"	407121	407671	407601	407751	407201	407701	407301	407321	407801
3/8"	407122	407672	407602	407752	407202	407702	407302	407322	407802
1/2"	407123	407673	407603	407753	407203	407703	407303	407323	407803
3/4"	407124	407674	407604	407754	407204	407704	407304	407324	407804
1"	407125	407675	407605	407755	407205	407705	407305	407325	407805
1-1/4"	407126	407676	407606	407756	407206	407706	407306	407326	407806
1-1/2"	407127	407677	407607	407757	407207	407707	407307	407327	407807
2"	407128	407678	407608	407758	407208	407708	407308	407328	407808



Reducing socket	
Part no.	Thread BSP Female
407249	3/8" to 1/4"
407250	1/2" to 1/4"
407251	1/2" to 3/8"
407252	3/4" to 3/8"
407253	3/4" to 1/2"
407255	1" to 1/2"
407257	1" to 3/4"
407258	1-1/4" to 3/4"
407259	1-1/4" to 1"
407261	1-1/2" to 1"
407263	1-1/2" to 1-1/4"
407265	2" to 1-1/2"

Hexagon reducing bush		
Part no.	Thread Tapered BSP male	Thread BSP Female
407501	1/4"	1/8"
407503	3/8"	1/8"
407504	3/8"	1/4"
407506	1/2"	1/4"
407507	1/2"	3/8"
407509	5/8"	3/8"
407512	3/4"	1/4"
407513	3/4"	3/8"
407514	3/4"	1/2"
407517	1"	3/8"
407518	1"	1/2"

Hexagon reducing bush		
Part no.	Thread Tapered BSP male	Thread BSP Female
407519	1"	3/4"
407523	1-1/4"	3/4"
407524	1-1/4"	1"
407529	1-1/2"	3/4"
407530	1-1/2"	1"
407531	1-1/2"	1-1/4"
407535	2"	1"
407536	2"	1-1/4"
407537	2"	1-1/2"
407539	2-1/2"	1-1/2"
407540	2-1/2"	2"

Hexagon nipple	
Part no.	Thread Tapered BSP male
407620	1/4" to 1/8"
407621	3/8" to 1/4"
407622	1/2" to 3/8"
407623	3/4" to 1/2"
407624	1" to 3/4"
407625	1-1/4" to 1"
407626	1-1/2" to 1-1/4"
407627	2" to 1-1/2"

## Brass Hose Tails



Male



Female



Straight hose tails			
Male Thread	Female Thread	BSP Thread	For hose I.D. mm
404003	-	1/8"	6
404005	-	1/8"	8
404013	-	1/4"	6
404015	404215	1/4"	10
-	404217	1/4"	13
404023	404223	3/8"	10
404025	404225	3/8"	13
404027	404227	3/8"	15
404032	404232	1/2"	13
404033	-	1/2"	14
-	404234	1/2"	15
404036	404236	1/2"	16
404038	404238	1/2"	20
404039	-	1/2"	22
404043	-	3/4"	16
404045	-	3/4"	19
-	404245	3/4"	20
404046	-	3/4"	22
404047	404247	3/4"	25
404048	-	3/4"	28
-	404253	1"	20
404054	404254	1"	25

Straight hose tails			
Male Thread	Female Thread	BSP Thread	For hose I.D. mm
-	404255	1"	27
404055	-	1"	28
404057	-	1"	32
404063	404263	1-1/4"	32
404064	404264	1-1/4"	35
404066	404266	1-1/4"	38
-	404267	1-1/4"	40
404068	-	1-1/4"	45
404072	-	1-1/2"	32
404074	404273	1-1/2"	38
404075	404274	1-1/2"	40
404076	404276	1-1/2"	45
-	404278	1-1/2"	50
404078	-	1-1/2"	51
404082	-	2"	45
-	404284	2"	50
404084	-	2"	51
404086	-	2"	55
404088	404287	2"	60
404093	-	2-1/2"	60
404094	-	2-1/2"	63
404097	-	3"	76

Straight male tapered hose tails		
Part no.	BSP Taper male	For hose I.D. mm
404601	1/8"	3
404602	1/8"	5
404603	1/8"	6
404605	1/8"	8
404607	1/8"	10
404611	1/4"	3
404613	1/4"	6
404614	1/4"	8
404615	1/4"	10
404617	1/4"	13
404618	1/4"	16
404621	3/8"	6
404622	3/8"	8
404623	3/8"	10
404625	3/8"	13
404628	3/8"	16
404629	3/8"	19

Hose to hose connector fittings	
Part no.	For hose I.D. mm
418013	8 to 8
418024	10 to 10
418026	10 to 13
418028	10 to 16
418034	13 to 13
418036	13 to 16
418038	13 to 19
418046	16 to 16
418053	19 to 19
418055	19 to 25
418063	25 to 25
418074	32 to 32



90° male hose tail		
Part no.	Thread BSPM	For hose I.D. mm
404725	3/8"	15
404738	1/2"	20
404747	3/4"	25
404757	1"	30
404763	1-1/4"	32
404766	1-1/4"	40



90° female hose tail		
Part no.	Thread BSPF	For hose I.D. mm
404703	1/2"	13
404706	3/4"	19



Straight hose tail with wingnut		
Part no.	Thread BSPF	For hose I.D. mm
404433	1/2"	13
404445	3/4"	19
404451	1"	13
404454	1"	25
404474	1-1/2"	38



90° male hose tail with hexagonal shoulder		
Part no.	Thread BSPM	For hose I.D. mm
418333	1/2"	13
418338	1/2"	19
418345	3/4"	19
418347	3/4"	25
418354	1"	25
418363	1-1/4"	32
418374	1-1/2"	38
418384	2"	51

## Washers

Copper Male	Fibre Male	Nitrile Female	BSP
304990	-	-	1/8"
304992	-	-	1/4"
304994	-	-	3/8"
304995	407823	407843	1/2"
304998	407824	407844	3/4"
304999	407825	-	1"
-	-	407847	1-1/2"
-	-	407848	2"



304998

## LOCTITE Sealant

### 109105

Loctite 577 is a medium strength, slow curing thread sealant designed for use with metal threads only. It is resistant to fuel, oil, hydraulic fluids and coolants making it perfect for use in a wide range of industries. The sealant also locks the threaded connection in place to prevent loosening caused by vibrations.

This sealant will not creep, shrink or block systems by shredding. It can be applied quickly at low temperatures and has excellent chemical and thermal resistance.



109105

Compression fittings are typically suitable for use in the installation of fuel, hydraulic and pneumatic systems. The range we offer includes fittings for both imperial and metric tubing. For certain installations the compression olive supplied as standard may need to be replaced with a special olive, for example, when used with nylon tubing.

### SEAFLOW

## Imperial Compression Fittings



BSP to imperial outside diameter tube	Stud coupling Male	Stud coupling Female	Stud coupling tapered male	Stud elbow tapered male	Stud elbow Female
1/4" to 1/8"	-	-	303582	-	-
1/8" to 3/16"	-	303535	303583	303412	303442
1/4" to 3/16"	303554	303536	-	-	-
1/8" to 1/4"	303556	303537	303585	303413	-
1/4" to 1/4"	303557	303538	303586	303414	303443
3/8" to 1/4"	303558	303539	-	-	-
1/8" to 5/16"	303559	303540	303587	303415	-
1/4" to 5/16"	303560	303541	303588	303416	303444
3/8" to 5/16"	303561	303542	303589	-	-
1/2" to 5/16"	303562	303543	-	-	-
1/4" to 3/8"	303563	303544	303590	303417	303445
3/8" to 3/8"	303564	303545	303591	303418	303446
1/2" to 3/8"	303565	303546	303592	303419	-
3/8" to 1/2"	303567	303547	-	303421	-
1/2" to 1/2"	303568	303548	303595	303422	-

### SEAFLOW

## Metric Compression Fittings



BSP to metric outside diameter tube	Stud coupling Male	Stud coupling Female	Stud coupling tapered male	Stud elbow tapered male	Stud elbow Female
1/8" to 4mm	304551	-	304580	-	-
1/4" to 4mm	-	304534	304581	-	-
1/4" to 5mm	304554	-	304583	-	-
1/8" to 6mm	-	304537	304584	-	-
1/4" to 6mm	304556	304538	304585	304414	-
3/8" to 6mm	304557	-	304586	-	-
1/8" to 8mm	304559	304541	-	-	-
1/4" to 8mm	304560	304542	304588	304416	304444
3/8" to 8mm	304561	304543	304589	-	-
1/2" to 8mm	304562	-	-	-	-
1/4" to 10mm	304563	304544	304590	304417	304445
3/8" to 10mm	304564	304545	304591	304418	304446
1/2" to 10mm	304565	304546	304592	-	-
1/4" to 12mm	-	-	304593	-	-
3/8" to 12mm	304567	-	304594	-	304447
1/2" to 12mm	304568	304548	304595	-	-
1/2" to 15mm	304569	304550	304597	-	304449

## Unions



Part no.	Description
203910	3/8" BSPM each end
203912	3/8" BSPTM to 3/8" BSPM
203915	3/8" BSPM to 1/2" BSPM
203917	3/8" BSPTM to 1/2" BSPM
203920	1/2" BSPM each end
203923	1/2" BSPM to 3/4" BSPM

## 90° Swept Elbows



Part no.	Description
203942	3/8" BSPM to BSPF
203943	1/2" BSPM to BSPFT
203944	3/4" BSPM to BSPF

## Dowty Washers



Part no.	BSPM
203992	1/4"
203993	3/8"
203994	1/2"
203996	3/4"
203997	1"
203998	1-1/4"
203999	1-1/2"

SEAFLOW



Straight couplings Metric	
Part no.	Tube to tube mm
304501	4 to 4
304504	6 to 4
304506	6 to 6
304510	8 to 8
304512	10 to 6
304513	10 to 8
304514	10 to 10
304516	12 to 8
304517	12 to 10
304518	12 to 12

Bulkhead couplings		
Part no.	Tube O.D. mm	Max. bulkhead thickness
304525	6	3/8"
304526	8	3/8"
304527	10	3/8"
304529	15	3/8"

Straight compression union coupling	
Part no.	Tube to tube
304622	6mm to 1/4"
304624	10mm to 3/8"

Compression elbows Metric	
Part no.	Tube O.D. to tube each end mm
304405	8
304406	10

Tee piece	
Part no.	Tube O.D. mm (all 3)
304604	6
304605	8
304608	10

Straight couplings Imperial	
Part no.	Tube to tube
303500	1/8" x 1/8"
303502	3/16" x 3/16"
303503	3/16" x 1/4"
303506	1/4" x 1/4"
303508	3/16" x 5/16"
303509	5/16" x 1/4"
303510	5/16" x 5/16"
303511	3/16" x 3/8"
303512	1/4" x 3/8"
303513	5/16" x 3/8"
303514	3/8" x 3/8"
303515	1/4" x 1/2"
303516	5/16" x 1/2"
303517	3/8" x 1/2"
303518	1/2" x 1/2"

Bulkhead couplings		
Part no.	Tube x tube each end	Max. bulkhead thickness
303524	3/16"	3/8"
303525	1/4"	3/8"
303526	5/16"	3/8"
303527	3/8"	3/8"
303528	1/2"	1/2"

Compression elbows Imperial	
Part no.	Tube O.D. to tube each end
303403	3/16"
303404	1/4"
303405	5/16"
303406	3/8"
303407	1/2"

Tee piece	
Part no.	Tube O.D.
303602	3/16" (all 3)
303604	1/4" (all 3)
303605	5/16" (all 3)
303606	1/4" x 3/8" x 3/8"
303607	5/16" x 3/8" x 3/8"
303608	3/8" (all 3)
303609	1/2" (all 3)



Hose Connectors	
Part no.	BSP female to hose
303683	1/4" to 1/4"
303684	1/4" to 5/16"
303685	3/8" to 3/8"
303686	1/2" to 1/2"

Hose Connectors	
Part no.	Tube to hose
303673	1/4" to 3/8"
303674	5/16" to 3/8"
303675	3/8" to 3/8"

Stop Ends - Imperial	
Part no.	Tube to BSP female O.D. tube
303662	3/16"
303663	1/4"
303664	5/16"
303665	3/8"
303666	1/2"

Stop Ends - Metric	
Part no.	Tube O.D. mm
304663	6
304664	8
304665	10

## SEAFLOW Imperial Olives and Nuts



\*Stepped olive

Copper ring olive Pack of 5	Brass barrel olive Pack of 5	Olive for nylon medium gauge pipe Pack of 5	Coupling nut Sold individually	Tube O.D.
303831	303841	-	303931	1/8"
303832	303842	-	303932	3/16"
303833	303843	303823	303933	1/4"
303834	303844	303824	303934	5/16"
303835	303845*	303825	303935	3/8"
303836	303846	-	303936	1/2"

## SEAFLOW Metric Olives and Nuts



Copper ring olive Pack of 5	Brass barrel olive Pack of 5	Olive for nylon medium gauge pipe Pack of 5	Tube O.D. mm
304831	304841	-	4
304832	-	-	5
304833	304843	-	6
304834	304844	304824	8
304835	304845	304825	10
304836	304846	-	12
304837	304847	-	15

## Non Metallic

## Why use non metallic fittings?

- Cost efficient
- Corrosion resistant



Plastic fittings are not suitable for fuel.

**SEAFLOW** Nylon Hose Tail Skin Fittings

Nylon skin fittings with stainless steel caps.

403727  
Straight

Straight	For hose I.D. mm	Thread length mm	Head O.D. mm
403721	13	32	38
403722	16	32	38
403723	20	32	51
403724	25	32	51
403725	29 + 32	32	57.5
403726	38	48	75
403727	51	48	75

403736  
90°

90°	For hose I.D. mm	Thread length mm	Head O.D. mm
403732	16	45	39
403733	20	44	52
403734	25	46	52
403735	29 + 32	40	56
403736	38	61	76
403737	51	61	76

**SEAFLOW** Marelon Seacock Valves

- Made from marelon (carbon fibre reinforced nylon)
- Strong and durable
- Suitable for below waterline installations
- Full bore so there is no resistance
- Comes complete with a through hull fitting with a mushroom style head
- Fire resistant, UV resistant and will not be affected by electrolytic corrosion
- Exceeds ABYC recommendations and meets all UL specifications
- Temperature range: -40°C to +80°C



402805

To BSP thread		
Part no.	Through hull I.D. mm	Thread BSP female
402804	19	3/4"
402805	25	1"



402814

To hose tail connection		
Part no.	Through hull I.D. mm	For hose I.D. mm
402814	19	19
402815	25	25
402816	32	32
402817	38	38
402818	51	51

**PERKO** Plastic Hose Tail Skin Fittings

- Moulded white plastic with integral hose tail
- Available with broad or narrow flange
- Scupper version with flapper also available in certain sizes - See page 132

403752  
Narrow

Narrow flange	Head O.D. mm	For hose I.D. mm	Maximum hull thickness mm
403752	32	13	32
403753	32	16	32
403754	38	19	37
403755	48	25	38
403756	48	28	38
403758	64	38	48

403776  
Broad

Broad flange	Head O.D. mm	For hose I.D. mm	Maximum hull thickness mm
403772	38	13	32
403773	38	16	32
403774	48	19	37
403775	57	25	38
403776	57	28	38
403778	78	38	48

**SEAFLOW** Marelon Ball Valves

- Strong, compact and simple design
- BSP parallel threads
- Non metallic construction with PTFE seals



405823

Part no.	Thread BSP Female
405823	1/2"
405824	3/4"
405825	1"
405827	1-1/2"
405828	2"


**Non-Metallic Diverter Valves**

- Whale 3 way diverter valve changeover valve and waste
- IC valves also available, see page 220



506571

Part no.	For hose I.D. mm (inch)
506571	25 (1")
506572	38 (1-1/2")

## SEAFLOW GRP Hose Tails



404842

BSP Male	NPT Male	Thread	For hose I.D. mm
404833	710033	1/2"	13
-	710038	1/2"	19
404842	710042	3/4"	13
404845	710045	3/4"	19
-	710053	1"	19
404854	710054	1"	25
404863	-	1-1/4"	32
404872	-	1-1/2"	25
404873	-	1-1/2"	32
404874	-	1-1/2"	38
404884	-	2"	51

## SEAFLOW Plastic Cap and Tails

Straight	90°	Thread BSP female	For hose I.D. mm
511426	511406	1-1/4"	32
511427	511407	1-1/2"	38



511426



511407

## SEAFLOW Plastic Bulkhead Connectors

Part no.	Thread BSP male each end	Length mm
511653	1/2"	70
511655	1"	70
511657	1-1/2"	73



511653

## SEAFLOW Plastic Pipe Connections



90° compact elbow	Straight connector	Tee piece	Y piece	90° elbow	For hose I.D. mm
510412	510422	510432	510442	-	10
510413	510423	510433	510443	-	13
510414	510424	510434	510444	510705	19
510415	510425	510435	-	510705	25
510416	510426	510436	-	-	32
510417	510427	510437	-	510717	38
510418	510428	510438	-	-	51

## SEAFLOW Plastic Hose Tails

Part no.	Thread BSP male	For hose I.D. mm
511712	1/2"	13
511714	1"	19
511715	1"	19 + 25
511716	1"	25
511719	1-1/2"	38



511714

Part no.	Thread BSP female	For hose I.D. mm
511734	1-1/2"	19
511735	1-1/2"	19 + 25
511736	1-1/2"	25
511738	1-1/2"	32 + 38
511739	1-1/2"	38



511738

Part no.	Thread NPT male	For hose I.D. mm
710033	1/2"	13
710038	1/2"	19
710042	3/4"	13
710045	3/4"	19
710053	1"	19
710054	1"	25



710045

## Stepped Hose Adaptors

SEAFLOW



510482

vetus



510498

vetus



510499

Part no.	For hose I.D. mm	Overall length mm	Material
510482	10 - 13	69	Plastic
510498*	13 - 38 (13, 16, 19, 22, 25, 28.5, 32, 38)	199	Synthetic
510499*	30 - 60 (30/32, 38/40, 45, 50, 57/60)	206.5	Synthetic

\* Can be cut to size



Did you know?

You can use a male hose tail, plus a female hose tail to make a stepped adaptor.



511105

### SEAFLOW CR (DZR) Drain Scuppers

- Designed for installation at deck level to drain off sea water or rain water
- Made from dezincification resistant CR (DZR) brass

Part no.	Thread BSP male	Overall length mm	Thread length mm	Scupper depth mm
511103	1/2"	97	72.5	46.5
511104	3/4"	107	82	54
511105	1"	103	77	56.5
511106	1-1/4"	105	79	64
511107	1-1/2"	113	82	69



515007

### SEAFLOW Stainless Steel 316 Through Hull Scupper

- Made from cast stainless steel 316
- Mirror polished finished
- Fitted with a rubber non-return flap and a grounding connection

Part no.	Thread BSP Male	Length under head mm	Internal diameter mm
515007	1-1/2"	78	35



511561

### SEAFLOW Plastic Through Hull Scupper With Flap

- Made from white nylon
- Fitted restriction flap to allow one way access of water
- Large bore capacity to allow full flow in accordance with EEC standards CE marked
- Net passage 50mm diameter
- Designed to be pressure mounted
- Designed for use above the waterline

Part no.	Fits hull thickness mm	Cut out diameter mm
511561	30 - 139	66



C 1200134

### CENTEK GRP Scuppers With Flap

- Centek scupper drain fitting located in the side or aft of the boat to allow water drainage
- Features a flapper fastened with a stainless steel pin which prohibits the reverse flow of water

Part no.	Colour	Opening diameter mm	Flange diameter mm	Length mm
C 1200134	White	73.1	106.4	76
C 1200252	Black	73.1	106.4	76



403981

### PERKO Plastic Scupper Valve

- Perko 0365 plastic scupper valve assembly
- Suitable for surface mount applications
- Moulded white plastic construction with soft black flapper
- Through hull and mounting hardware not included

Part no.	Flange O.D. mm (inch)	Screw size
403981	73 (2-7/8")	6



## CR (DZR) Brass Countersunk Deck Drains

- Maestrini straight deck drains made from CR (DZR) brass
- Suitable for below waterline applications
- Features a threaded fitting
- Open well with no grate
- Supplied with a fixing nut and washer

Part no.	Thread BSP male	Overall length mm	Thread length mm	Drain diameter mm
511022	3/8"	56.5	53	34
511023	1/2"	62	58	40
511024	3/4"	71	66	49
511025	1"	76	71	56
511026	1-1/4"	82	77	65
511027	1-1/2"	83	78	72
511028	2"	100	95	84



## SEAFLOW Stainless Steel Cockpit Drains

- Constructed from 316 stainless steel
- Removable grate to allow for easy cleaning and maintenance

Part no.	Shape	Dimensions mm	Hose outlet mm	Angle outlet	Built in non-return valve
511048	Round	92 diameter	40	45°	Yes
511054	Oval	190 x 92	38	90°	No



511048



511054

## SEAFLOW Stainless Steel 316 Countersunk Deck Drains

Seaflow straight deck drains constructed from stainless steel 316. These drains feature a hose tail fitting and an open well with no grate. They are supplied with mirror polished ground connections and a fixing nut and washer.

Part no.	Thread BSP Male	Hose size mm
511034	1/2"	19
511035	3/4"	25
511036	1"	30
511037	1-1/4"	38
511038	1-1/2"	45



511037



## Brass Countersunk Deck Drains

Maestrini straight deck drains constructed from brass. These drains feature a threaded fitting and an open well with no grate. They are supplied with a fixing nut and washer.

Part no.	Thread BSP Male
511002	3/8"
511003	1/2"
511004	3/4"
511005	1"
511006	1-1/4"
511007	1-1/2"
511008	2"



511005

## SEAFLOW Plastic 90° Deck Drains

- Seaflow 90° deck drains made from plastic
- Features a hose tail fitting
- Supplied with a grated well to filter large materials
- Supplied with a fixing nut and washer

Part no.	For hose I.D. mm (inch)	Head O.D. mm
511573	19 (3/4")	45
511575	28 (1-1/8")	70
511577	38 (1-1/2")	70



511573

## SEAFLOW Plastic Straight Deck Drains

- Seaflow straight deck drains made from plastic
- Features a hose tail fitting
- Supplied with a grated well to filter large material
- Supplied with a fixing nut and washer

Part no.	For hose I.D. mm (inch)	Head O.D. mm	Thread length mm
511586	32 + 38 (1-1/4" + 1-1/2")	69	47
511587	38 (1-1/2")	68	40

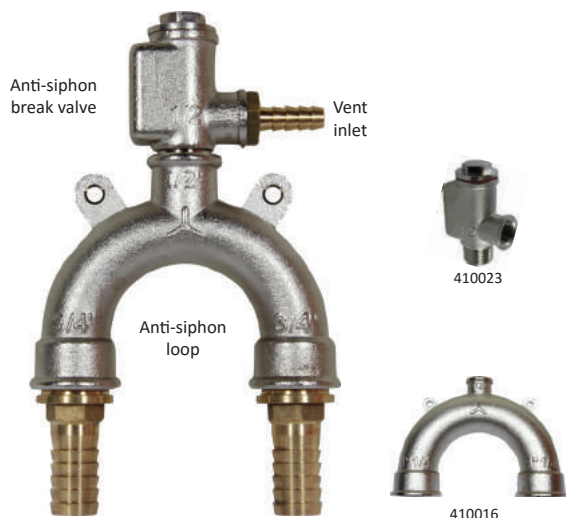


511586

## What is an Anti-Siphon Device?

An anti-siphon unit is an extremely important part of a plumbing system. Their use is recommended in installations such as 'below waterline' applications of engines with wet exhausts, toilet systems and pumping systems to name but a few. It will allow the water to flow only one way in the intended direction. Should the flow reverse then the vacuum will operate the anti-siphon valve allowing air to enter the line, and thus breaking the siphoning effect.

We offer various types of anti-siphon units, and each must be fitted correctly to ensure proper and effective operation.



### Brass Anti-Siphon Loop and Siphon Break Valve

- Made from brass
- Use loop in conjunction with 410023 siphon break valve (see below)
- Typical applications for this anti-siphon loop are boat water intakes, exhaust injection lines and toilet systems where installed equipment is below the waterline
- Cost effective
- Custom make your system to meet your requirements

Anti-siphon Break Valve			
Part no.	Port BSP male	Port BSP female	Hose tail to suit
410023	1/2"	3/8"	404023 to 10mm hose

Anti-siphon Loops			
Part no.	Port BSP female	Vent BSP female	Hose tail to suit (2 required)
410014	3/4"	1/2"	404045 to 19mm hose
410015	1"	1/2"	404054 to 25mm hose
410016	1-1/4"	1/2"	404063 to 32mm hose

For hose tails to suit, please see page 127.



### Brass Anti-Siphon Device Kit

Maestrini complete anti-siphon loop and breaker valve kit supplied with hose tails for a complete hose line anti-siphon installation.

Part no.	Hose line size mm (inch)	Vent hose size mm (inch)
410031	19 (3/4")	10 (3/8")
410033	25 (1")	10 (3/8")
410035	32 (1-1/4")	10 (3/8")



### Non Metallic Anti-Siphon Device

- The loop shaped fitting prevents water from running back down the exhaust line towards the engine in a wet exhaust system whilst allowing it to flow in the desired direction
- Often when the engine is turned off and water is left in the exhaust line a siphoning effect can cause water to rush back towards the engine, this loop prevents that from happening
- Features 2 mounting holes for wall mounting

Part no.	For hose I.D. mm
410081	13 - 38



### Plastic Vented Anti-Siphon Loops

- Made from polypropylene
- For marine toilet lines
- Features an air vent valve to prevent smells lingering inside the boat
- Also suitable for use in onboard cooling systems

Part no.	For hose I.D. mm
507619	19 (3/4")
507625	25 (1")
507638	38 (1-1/2")





## Anti-Siphon Devices



410052

### 410052

Inner valve to allow air in and stops water from leaking out. The valve does require cleaning as it may get blocked with salt crystals. Comes complete with connections to suit 13, 19, 25 and 32mm ID hose.



410053

### 410053

The device has no valve to block up. However, there will be a small constant flow of water flowing through the hose. Comes complete with 4 metres of hose and connections to suit 13, 19, 25 and 32mm ID hose.

### V-ASDH

The device has no valve to block up. However, there will be a small constant flow of water flowing through the hose. The 360° vent valve can be serviced with no tools. Comes complete with 4 metres of hose and connections to suit 13, 19, 25 and 32mm ID hose.



V-ASDH

### V-ASD38H

Comes complete with 4 metres of hose and connections to suit 38mm ID hose.



V-ASD38H

### V-ASDV

Interchangeable air vent. The bleed connection rotates 360° and valve can be maintained without removing unit from mounting and no tools required. Comes complete with connections to suit 13, 19, 25 and 32mm ID hose.



V-ASDV

### V-ASD38V

Comes with connections to suit 38mm ID hose.



V-ASD38V

## Intake Water Filters and Strainers

An intake water filter is an essential item for any boat engine, providing protection to the impeller pump by restricting the entry of debris into the raw water cooling circuit. We offer a wide range of quality intake strainers; both hull mounted and remote mounted in bronze, stainless steel or non metallic materials.



All fittings used for through hull applications must be correctly electrically bonded to ensure protection from electrolytic corrosion.

## SEAFLOW Bronze Hull Mounted Water Strainers

- Cast in bronze
- Inlet is threaded BSP male, outlet is threaded BSP female
- Filter can be serviced through the removable top

Part no.	Port size BSP	Strainer dimensions H x D mm	Wingnut cover	Element insert	Element dimensions H x D mm
402023	1/2"	140 x 55	No	402033	88 x 25
402024	3/4"	150 x 57	No	402034	114 x 29
402025	1"	210 x 85	Yes	402035	152 x 38
402026	1-1/4"	250 x 90	Yes	402036	190 x 45
402027	1-1/2"	250 x 90	Yes	402036	190 x 45



402024



402025



402036

Part no.	Port size BSP	Strainer dimensions H x D mm	Wingnut cover	Element insert	Element dimensions H x D mm
402073	1/2"	150 x 40	No	402083	117 x 32
402074	3/4"	220 x 40	No	402084	178 x 32
402075	1"	240 x 42	No	402085	197 x 35
402076	1-1/4"	275 x 50	No	402086	230 x 42
402077	1-1/2"	275 x 50	No	402086	230 x 42



402075



402085

## Remote Water Intake Strainers

We can offer bracket mounted or base mounted raw water intake strainers.

**CR (DZR) Brass** - CW602N standard. Designed to be used in harsh water applications and won't deteriorate like a standard brass fitting would.

**Brass** - CW614N and CW617N standard. Not recommended for sea water use. Please see tables on page 122 for material specifications.

**Bronze** - CC491K standard. Suitable for below waterline through hull applications. Tough and corrosion resistant making it suitable for exposure to sea water.

**Stainless Steel 316** - Resistant to corrosion and suitable for exposure to sea water. Maintenance and replacement costs are lower.



### CR (DZR) Brass Remote Water Strainers (Bracket Mounted)

These Maestrini high capacity remote mount water strainers are constructed from dezincification resistant CR (DZR) brass with a polycarbonate transparent lid with 'O'-ring seal. The stainless steel 316 filter basket is easy to clean and can be accessed simply by removing the four screws on the top of the water strainer.

Designed to be bracket mounted (bracket not included) through the side using the integral mounting lugs. The inlet is located on the base of the strainer and the outlet is on the side of the body.

- Corrosion resistant CR (DZR) brass construction
- Stainless steel 316 filter basket
- Polycarbonate transparent top with 'O'-ring seal

Part no.	Ports BSP female	Bracket	Replacement strainer basket	Replacement clear lid	Replacement 'O'-ring
401324	3/4"	401134	401244	401201	401281
401325	1"	401134	401244	401201	401281
401326	1-1/4"	401136	401246	401203	401282
401327	1-1/2"	401136	401246	401203	401282



### Brass Remote Water Strainers (Bracket Mounted)

These Maestrini high capacity remote mount water strainers are constructed from brass with a stainless steel 316 filter basket which is easy to clean and can be accessed simply by removing the lid.

Designed to be bracket mounted (bracket not included), through the side using the integral mounting lugs. The inlet is located on the base of the strainer and the outlet is on the side of the body.

- Brass construction
- Stainless steel 316 filter basket
- Metal or clear lid with 'O'-ring seal

Part no.	Ports BSP female	Lid	Bracket	Replacement strainer basket	Replacement clear lid	Replacement 'O'-ring
401423	1/2"	Metal	401134	401244	-	401280
401424	3/4"	Metal	401134	401244	-	401281
401523	1/2"	Clear	401134	401244	401200	401280
401524	3/4"	Clear	401134	401244	401201	401281



### Brass & Bronze Remote Water Strainers (Bracket Mounted)

These Maestrini high capacity remote mount water strainers are constructed from brass with a polycarbonate transparent lid with 'O'-ring seal. The stainless steel 316 filter basket is easy to clean and can be accessed simply by removing the four screws on the top of the water strainer.

Designed to be bracket mounted (bracket not included), through the side using the integral mounting lugs. The inlet is located on the base of the strainer and the outlet is on the side of the body.

- Stainless steel 316 filter basket
- Clear lid with 'O'-ring seal
- Integral mounting lugs for bracket mounting

Brass					
Part no.	Ports BSP female	Bracket	Replacement strainer basket	Replacement clear lid	Replacement 'O'-ring
401304	3/4"	401134	401244	401201	401281
401305	1"	401134	401244	401201	401281
401306	1-1/4"	401136	401246	401202	401282
401307	1-1/2"	401136	401246	401202	401282
Bronze					
401308	2"	401136	401248	401203	401283
401310	3"	-	401250	401207	401285



## CR (DZR) Brass Remote Water Strainers (Base Mounted)

These Maestrini high capacity remote mount water strainers are constructed from dezincification resistant CR (DZR) brass with a clear lid with 'O'-ring seal. The filter basket is easy to clean and can be accessed simply by removing the four screws on the top of the water strainer. Designed to be deck mounted through the base using the integral mounting lugs.

- Corrosion resistant CR (DZR) brass construction
- Clear lid with 'O'-ring seal
- Integral mounting lugs for base mounting
- Drain plug fitted

Part no.	Ports BSP female	Replacement strainer basket	Replacement clear lid	Replacement 'O'-ring
401623	1/2"	401222	401200	401280
401624	3/4"	401224	401201	401281
401625	1"	401224	401201	401281
401626	1-1/4"	401226	401202	401282
401627	1-1/2"	401226	401202	401282



401625

## SEAFLOW Stainless Steel 316 Remote Water Strainers (Base Mounted)

These Seaflo high capacity remote mount water strainers are constructed from stainless steel 316 with a transparent inspection cover. The Seaflo remote water strainer is designed to be deck mounted through the base using the integral mounting lugs.

- Stainless steel 316 construction
- Transparent inspection cover
- Integral mounting lugs for base mounting

Part no.	BSP female
422004	3/4"
422005	1"
422006	1-1/4"
422007	1-1/2"
422008	2"



422005



## Large Remote Brass & Bronze Water Strainers (Base Mounted)

These Maestrini high capacity remote mount water strainers are constructed from brass with a clear lid with 'O'-ring seal. The filter basket is easy to clean and can be accessed simply by removing the four screws on the top of the water strainer. Designed to be deck mounted through the base using the integral mounting lugs.

- Clear lid with 'O'-ring seal
- Integral mounting lugs for base mounting
- Drain plug fitted

Brass				
Part no.	Ports BSP female	Replacement strainer basket	Replacement clear lid	Replacement 'O'-ring
401604	3/4"	401224	401201	401281
401605	1"	401224	401201	401281
401606	1-1/4"	401226	401202	401282
401607	1-1/2"	401226	401202	401282
Bronze				
401608	2"	401228	401203	401283
401609	2-1/2"	401229	401204	401284
401610	3"	401230	401205	401285



401607



401863

## **140 Plastic Raw Water Strainers**

- Compact size
- Plastic body with integral hose connections
- Transparent cover is easily removed to enable cleaning of non-metallic strainer basket
- Integral mounting bracket
- Above waterline mount

Part no.	Model	For hose I.D. mm (inch)	Flow rate lpm	Depth mm	Height mm
401863	FTR140/13	13 (1/2")	23	107	111
401862	FTR140/16	16 (5/8")	35	107	111
401864	FTR140/19	19 (3/4")	51	107	111



V-FILTER150

## **150 Plastic Raw Water Strainer**

### V-FILTER150

Vetus filter 150 raw water strainer, 28.5mm hose

- Provided with a transparent cover allowing easy inspection of the filter without dismantling
- Cleaning of the filter can be achieved quickly and easily
- Due to the large active surface the filter seldom needs to be cleaned

### 401809

Replacement 'O'-ring with an O.D. of 135mm



401802

## **330 Plastic Raw Water Strainers**

- Popular plastic body strainer
- With integral hose connections
- Transparent cover is easily removed to enable cleaning of non-metallic strainer basket
- Integral mounting bracket
- Above waterline mount

Part no.	Model	For hose I.D. mm (inch)	Flow rate lpm	Depth mm	Height mm
401803	FTR330/13	13 (1/2")	23	148	162
401802	FTR330/16	16 (5/8")	35	148	162
401804	FTR330/19	19 (3/4")	51	148	162
401805	FTR330/25	25 (1")	91	148	162
401806	FTR330/32	32 (1-1/4")	143	148	162
401808	FTR330/38	38 (1-1/2")	200	148	162
401801	'O'-ring for lid, fits all models				
401803-1	Raw water strainer lid and seal FTR330				
V-FTR05	Raw water strainer filter basket				



401817

## **1320 Plastic Raw Water Strainers**

- Strainers feature a screw-on see through lid for easy inspection and service
- Non metallic body construction and two adjustable mounting brackets
- Ports are threaded BSP female

Part no.	Model	Ports BSP female	Flow rate lpm	Depth mm	Height mm
401817	FTR132038	1-1/2"	205	172	297
401818	FTR132050	2"	365	172	297



401705

## **Raw Water Strainers**

- Made from corrosion resistant components
- Lightweight for full flow and low back pressure
- Stainless ferrule port reinforcement
- Stainless steel basket
- Optional mounting bracket available

Part no.	Ports NPT female	Height mm	Depth mm	Bracket
401704	3/4"	136	91	401794
401705	1"	178	127	401795
401707	1-1/2"	306	127	401797

## SEAFLOW Economic Plastic Remote Water Strainers

- Inexpensive ABS plastic bodied strainers with nylon filter basket
- Ports are threaded BSP female
- Inlet port is on the bottom, outlet is on the side
- Not designed for use on engine water intakes

Part no.	Ports BSP female	Height mm	Diameter mm
402194	3/4"	140	145
402197	1-1/2"	190	145



402194



402197



## Brass Inline 'Y' Shaped Water Strainers

- Maestrini strainer with brass body and a stainless steel filter gauze
- Can be easily removed and serviced by unscrewing the hexagonal cap on the strainer
- 'Y' shaped construction
- Not recommended for use on engine water intakes

Part no.	Ports BSP female
402703	1/2"
402704	3/4"
402705	1"
402706	1-1/4"
402707	1-1/2"
402708	2"



402703

## SEAFLOW Economic Plastic Water Strainers (Bracket Mounted)

Stepped hose tail connectors on the bottom of strainers.

Part no.	Flow rate lpm	Hose size mm	Height mm	Diameter mm
402198	150	13 / 19 / 25	172	121
402199	300	31 / 38	211	173



402198



402199

## SHURFLO® Pump Strainers

Clean, clear economical strainers eliminate unnecessary repairs by keeping debris and other particles out of the pump. Screws directly on the pump head. Transparent design shows when it is time to clean the filter. 50 Mesh stainless steel screen.

Part no.	Model	Inlet mm (inch)
509613	Twist on	1/2" NPT Thread
509614	Swivel nut	13 (1/2") barb
509615	Swivel nut	1/2" NPT Thread



509613



509614

## JABSCO Pumpgard Inline Water Filters

- Suitable for use with electric diaphragm pumps
- These filters fit on the inlet side of the pump to trap grit and particles
- Help prevent damage being caused to the inside of the pump
- Made from plastic with a clear lid for inspection
- Uses a mesh stainless steel filter screen
- Lid can be easily screwed off to allow quick cleaning and servicing of the filter

Part no.	Model	Hose size mm (inch)	Mesh filter screen	Width mm	Height mm	Typical installation
509782	46400-0002	13 (1/2")	40	70	60	Fresh water
509783	46400-0000	19 (3/4")	40	70	60	Toilets
509784	46200-0000	19 (3/4")	20	70	60	Bilge water



509782



## Inline Strainer

Suitable for going on the water pump inlet side to filter raw water. The filter contains an internal plastic gauze which can be extracted and washed easily to maintain filter performance.

Part no.	For hose I.D. mm (inch)
508700	1/2"
508701	3/4"



508700



506560

### Inline Check Valves

Whale non-metallic construction check valve, suitable for use with manual and electric pumps.

Part no.	For hose I.D. mm (inch)
506561	19 (3/4")
506560	25 + 38 (1" + 1-1/2")



506467

### Inline Check Valves

Patay check valve made from non metallic materials.

Part no.	For hose I.D. mm (inch)
506464	19 (3/4")
506465	25 (1")
506467	38 (1-1/2")

## Strum Boxes

A strum box connects to the inlet side of the pump and prevents debris from entering the pump which is often fitted in the bilge area. Certain models are also fitted with non-return valves to assist priming.



505605



505621



505635

## Strum Boxes

Part no.	For hose I.D. mm (inch)	Entry	Grating dimensions mm	Non-return valve
Brass				
505601	19 (3/4")	Side	55 x 55	No
505605	25 (1")	Side	80 x 80	No
Stainless Steel				
505621	19 (3/4")	Side	57 x 58	No
505625	25 (1")	Side	118 x 102	Yes
505628	38 (1-1/2")	Side	118 x 102	Yes
505635	25 (1")	Top	153 x 73	Yes
505638	38 (1-1/2")	Top	154 x 74	Yes



505708



505718



### Plastic Strum Boxes

Whale plastic strum boxes with debris gauze. These Whale strum boxes come complete with an integral non-return valve.

Part no.	For hose I.D. mm (inch)	Entry	Grating dimensions mm	Non-return valve
505708	25 + 38 (1" + 1-1/2")	Top	146 x 56	Yes
505718	25 + 38 (1" + 1-1/2")	Side	100 x 100	Yes



### Plastic Strum Boxes

Patay plastic strum boxes with debris gauze. Spigot is located on the side of the strum box. These Patay strum boxes come complete with an integral non-return valve.

Part no.	For hose I.D. mm (inch)	Entry	Grating dimensions mm	Non-return valve
506474	19 (3/4")	Side	135 x 70	Yes
506477	25 + 38 (1" + 1-1/2")	Side	157 x 71	Yes



506477

## SEAFLOW Gas Regulators

Part no.	Gas	Connections		Inlet pressure		Operating mbar	Capacity kg/hr	kW/hr	Btu/hr
		Inlet	Outlet	Max. bar	Min				
307050	Propane 37P	Pol 105	LP nozzle (8mm)	20	1.0	37	1	13	47,500
307054	Propane 766P	Polm 5/8 LH BS	Female Re 1/2	16	1.0	37	6	56	285,000
307051	Butane 28B	Union 109 butane nut	LP nozzle (8mm)	6	0.2	28	1	13	47,500
307055	Camping gas	M16 x 1.5	LP nozzle (8mm)	6	0.5	29	0.8	11	38,000



## SEAFLOW Gas Bubble Tester

- Connect close to the outlet side of the gas regulator
- Bubbles in the chamber indicate a leak downstream of the tester
- The Boat Safety Scheme states that an approved bubble tester is highly recommended

Part no.	Description
307956	Tester with 10mm compression
307959	Bubble test fluid sachet



307956

## SEAFLOW Gas Test Points

Seaflow union fitting suitable for use in the gas line to allow a gas test point to be connected.

### 307920

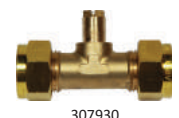
This testing point is suitable for use in 5/16" outside diameter gas lines.



307920

### 307930

This testing point is suitable for use in 3/8" outside diameter gas lines.



307930

## SEAFLOW Gas Ball Valves

- British gas and calor gas approved
- Female BSP parallel thread
- ISO 7/1Rp BS21 DIN 2999

Part no.	Thread BSP female
307801	1/4"
307802	3/8"



307801

## SEAFLOW Foot Mounted Gas Valves

Part no.	Compression
307031	1/4"
307032	5/16"
307033	3/8"



307031

## SEAFLOW Automatic Gas Cut-Off Valve

### 307057

- For use with propane or butane
- Can act as a quick response shut off valve
- Must be placed between the regulator and the appliance
- Detects both the loss of pressure or excess pressure flow
- Cuts off the gas to the appliance and can only be manually reset



307057

Max inlet pressure: 0.35 bar  
Cut off pressure: 20-50m bar  
Capacity: 2.3kg/h, 110000BTU/hr  
Connections: 3/8" BSP female

## SEAFLOW Propane Changeover Kit

### 307060

Manual changeover valve, with thread adaptor  
Capacity: 4kg  
Maximum inlet pressure: 11 bar (160 PSI)  
Outlet pressure: 37 m/bar  
Outlet 3/8" BSP Female

Kit includes:

- 1 x regulator
- 1 x manual changeover valve
- 1 x thread adaptor
- 2 x 50cm (20") pigtails with high pressure black to BS 3212 : Type 2
- POL connectors incorporating excess flow and non-return valves



307060

## SEAFLOW Gas Pipes

- Not to exceed 17.5 bar
- BS3212 (part 2) RCD approved
- BSS approved up to 1 metre

Plain spigot pipe ends for use with compression couplings.

1/4"	5/16"	3/8"	Length
307418	307518	307618	18"
307424	307524	307624	24"
-	307530	307630	30"
307436	307536	307636	36"



307436

Orange gas hose BS3212 (type 2) Off the coil (full coil 10 metres)	
Per metre	I.D. mm
307308	8
307310	10



307308

## SEAFLOW Sealants



### 307970

Clessetite LPG thread sealant 50ml



### 407998

PTFE gas tape 58 metre roll  
BS5292 12mm



*We are not gas safe registered and cannot advise on any gas fittings, we can only supply. We recommend that all gas installations are checked by a qualified, registered and competent engineer prior to use.*



# FUEL SYSTEMS

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Patented Parker Racor fuel filters / water separators are engineered to protect engines from contaminated fuel. To get the most out of your engine, and to guarantee that it works at peak performance, you need a water repelling Aquabloc® element inside your fuel filter. Only genuine Parker Racor elements guarantee the best in quality.

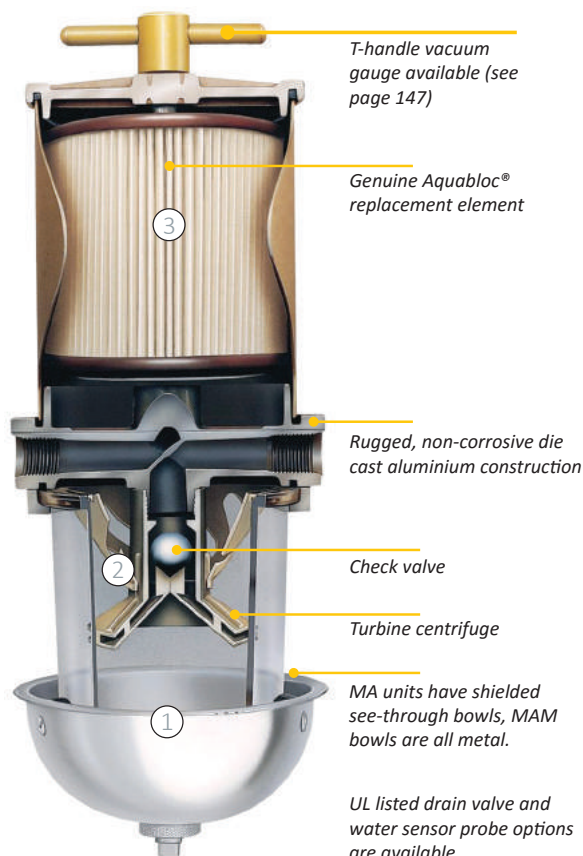
Others may fit, but only genuine Parker Racor Aquabloc® elements stop water and dirt from getting through, ensuring maximum protection for your engine. The filtration process patented by Parker Racor has been much imitated, but never duplicated.

It remains the most efficient, reliable weapon against contaminated fuel. Anyone who has suffered from dirt and/or water in the fuel system and the expense of repair will appreciate the filtering power of Parker Racor products.

Parker Racor - the people who pioneered the concept of multi-stage water and fuel separation.

- Turbine filters have a high flow rate
- Quick and simple element change (only 60 seconds!)
- Available in several sizes to suit many applications
- MA and MAM units are BSS approved
- Heavy duty construction
- Installs quickly
- Available in 2, 10 and 30 micron
- Easy to service
- Available with see-through collection bowl
- Self-venting water drain
- No tools required to change element

- 1 As fuel enters, it moves past the internal check valve, then through the turbine centrifuge where it flows in a spiralling direction, spinning off large particulates and water droplets. Being heavier than fuel, they fall to the bottom of the bowl.
- 2 Smaller water droplets bead-up along and on the sides of the internal components and on the surface of the Aquabloc® filter. When large enough, they too fall into the high-capacity bowl to be drained as needed.
- 3 Besides removing water asphaltenes, algae, rust, and tiny solids from fuel, Aquabloc® filters are repellent, so they remain effective longer and save you money.



Duplex units offer mariners the peace of mind of having a clean filter in reserve. Rough seas can stir up tank sediment which can potentially clog a single fuel filter.

With Racor, a simple turn of a valve puts a clean filter back online. Servicing of the clogged filter can then be performed even with the engine running.



For Triplex units, please see our website **[www.asap-supplies.com](http://www.asap-supplies.com)**



**DISTRIBUTOR**  
Dexter Filtration



# THIS IS PARKER

## The challenge

Avoid diesel bug  
Protect engines  
Extend part life

Parker helps boat owners protect their engine components from damage, dirt and diesel bug. Racor two-stage filters reduce contamination by up to 100% and extend element life; it's all part of our commitment to helping solve the world's greatest engineering challenges.

<http://blog.parker.com/diesel-bug-and-how-to-avoid-it-tips-and-resources-for-diesel-boat-owners>



ENGINEERING YOUR SUCCESS.



## 500 Series



**301501**  
FG  
See through bowl



**301503**  
MAM  
With metal bowl



**301505**  
MA  
See through bowl  
with heat  
deflection shield

Single	
Model number	500
Configuration	Single
Valve arrangement	None
Max. Flow rate lph	227
Port size UNF (fm):	3/4" - 16
Height mm	292
Width mm	147
Depth mm	122
Element clearance mm	102
Weight kg	2

Duplex	
Model number	75/500
Configuration	Duplex
Valve arrangement	M/function
Max. Flow rate lph	227 /454
Port size UNF (fm)	3/4" - 16
Height mm	292
Width mm	368
Depth mm	241
Element clearance mm	102
Weight kg	7.7



### Replacement Elements To Suit 500 Series

Extra savings for a box of 12 elements, add -12 to the part number.

<b>301851</b>	2 micron (2010SM)
<b>301853</b>	10 micron (2010TM)
<b>301855</b>	30 micron (2010PM)



**301521**  
FGX  
See through bowl



**301523**  
MAXM  
With metal bowl



**301525**  
MAX  
See through  
bowl with heat  
deflection shield



## 900 Series



**301602**  
FH  
See through bowl



**301604**  
MAM  
With metal bowl



**301606**  
See through bowl  
with heat  
deflection shield

Single	
Model number	900
Configuration	Single
Valve arrangement	None
Max. Flow rate lph	341
Port size UNF (fm):	7/8" - 14
Height mm	432
Width mm	152
Depth mm	178
Element clearance mm	127
Weight kg	3

Duplex	
Model number	75/900
Configuration	Duplex
Valve arrangement	M/function
Max. Flow rate lph	341 / 681
Port size UNF (m):	7/8" - 14
Height mm	432
Width mm	476
Depth mm	279
Element clearance mm	127
Weight kg	10



### Replacement Elements To Suit 900 Series

Extra savings for a box of 12 elements, add -12 to the part number.

<b>301861</b>	2 micron (2040SM)
<b>301863</b>	10 micron (2040TM)
<b>301865</b>	30 micron (2040PM)



**301622**  
FHX  
See through  
bowl



**301624**  
MAXM  
With metal  
bowl



**301626**  
MAX  
See through  
bowl with heat  
deflection shield



## 1000 Series



**301702**  
FH  
See through bowl



**301704**  
MAM  
With metal bowl



**301706**  
MA  
See through bowl  
with heat  
deflection shield

Single	
Model number	1000
Configuration	Single
Valve arrangement	None
Max. Flow rate lph	681
Port size UNF (fm):	7/8" - 14
Height mm	559
Width mm	152
Depth mm	178
Element clearance mm	254
Weight kg	5

Duplex	
Model number	75/1000
Configuration	Duplex
Valve arrangement	M/function
Max. flow rate lph	681 / 1363
Port size UNF (m)	7/8" - 14
Height mm	559
Width mm	476
Depth mm	279
Element clearance mm	254
Weight kg	13.6



### Replacement Elements To Suit 1000 Series

Extra savings for a box of 12 elements, add -12 to the part number.

<b>301871</b>	2 micron (2020SM)
<b>301873</b>	10 micron (2020TM)
<b>301875</b>	30 micron (2020PM)



**301722**  
FHX  
See through  
bowl



**301724**  
MAXM  
With metal bowl



**301726**  
MAX  
See through  
with heat  
deflection shield

**Parker Racor** Dual Fuel Filter

Part no.	301729
Model number	73/1000MA
Configuration	Dual
Valve arrangement	None
Max. flow rate lph	1363
Port size NPT (m)	3/4" 14 NPT
Height mm	559
Width mm	419
Depth mm	305
Element clearance mm	254
Weight kg	11.8

Comes fitted with see through bowls with heat deflection shields and a set of 10 micron elements.

Replacement Racor turbine elements (2020 series) are available to order with various micron ratings, see page 151.

**Parker Racor** Bowls and Drain Taps

RAC-RK15301-02



RAC-RK11734-03



RAC-RK11-1938

Part no.	Series	Bowl type
301505-1	500MA	See through
RAC-RK15405	500FG	See through
RAC-RK15301-02*	500MAM	White metal
301605-1	900MA + 1000MA	See through
RAC-RK11734-03*	900MAM + 1000MAM	White metal
RAC-RK11-1938	900FH + 1000FH	See through

\* Supplied with 4 x fixing screws.

Beige bowl also available, please see online at [www.asap-supplies.com](http://www.asap-supplies.com)



RAC-RK11-1910

**RAC-RK11-1910**

Replacement bowl plug kit for Racor turbine series 500 / 900 / 1000 MA units.



RAC-RK19492

**RAC-RK19492**

Brass shut-off valve with 1/4" NPT thread to replace the standard Racor turbine series drain plug. Valve is UL listed and USCG approved. For MA / MAM turbines.



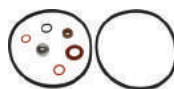
301501-3

**301501-3**

Drain tap for Racor turbine FG bowls  
Replacement non-metallic drain bung assembly for the Racor turbine FG filters with see through bowls.

**Parker Racor** Seal Kits

RAC-RK15211



RAC-RK11-1952



RAC-RK11-1404

Part no.	Connection
RAC-RK15211	Seal service kit for 500 FG / MA / MAM series
RAC-RK11-1952	Gasket seal kit for 900 and 1000 FG / FH series
RAC-RK11-1404	Seal service kit for 900 and 1000 MA / MAM series

**Parker Racor** Turbine Filter Fittings

301963



301997

Part no.	Thread UNF	Connection
301963	3/4" x 16 male	3/8" hose
301964	3/4" x 16 male	1/2" hose
301992	3/4" x 16 male	3/8" BSP male
301993	3/4" x 16 male	1/2" BSP male
301995	7/8" - 14 male	3/8" BSP male
301996	7/8" - 14 male	1/2" BSP male
301997	7/8" - 14 male	3/4" BSP male
301998	3/4" - 16 male	3/4" BSP male

**Parker Racor** Washable Elements

Washable / reusable genuine Racor element for 500, 900 and 1000 series turbine filters. Complete with lid seal and handle 'O'-ring.



301867

Part no.	Series	Micron
301857	500	149
301867	900	149
301877	1000	149



These elements **do not** offer Aquabloc® water separation properties.

**Parker Racor** Water Detection Gauge Kit

Through dash mounted water detection alarm, with high intensity red LED and audible buzzer alarm that operates when the probe detects water in the collection bowl.



RAC-RK20726

**RAC-RK20726**

Water detection gauge kit, supplied with probe

- Voltage: 12V and 24V
- Body outside diameter: 52mm (2-1/16")
- Depth: 81mm (3-1/5")
- Includes initial power set up self-diagnosis feature and circuit protection
- Not suitable for use with Petrol (gasoline) fuel filters



301333

**301333**

Spare water detection probe



RAC-RK14321

**RAC-RK14321**

Racor remote mount water detection module suitable for use with any Racor fuel filter/water separator and water probe, 24V. Sends a positive signal to an external source such as a lamp (less than one amp draw) or a relay operated device.

Also available in 12V (**RAC-RK14329**)

**Parker Racor** Fuel Alarms**Visual**

Surface mounted LED unit that operates when water is detected in the collection bowl. Shows green 'ON' when operating, changing to red 'DRAIN' when water is detected. **Not for use with Petrol (gasoline).**



301341

Part no.	Volts
301341	12V
301342	24V

**Visual and audible**

Surface mounted Racor alarm unit that operates when water is detected in the collection bowl, sounding an audible alarm and displaying a red light. **Not for use with Petrol (gasoline).**



301341

Part no.	Volts
301351	12V
301352	24V

## **Parker Racor Vacuum Gauges**

Designed to monitor differential pressure, helping to predict when the element needs replacing.

### 301374

Vacuum gauge kit. Replaces tee handle on single turbines, 1/4" thread.



301374

### RAC-RK11-1676E

Monitor system restriction results. Can even read when engine is stopped. 1/4" NPT thread. Fitted to Racor turbine duplex filters.



RAC-RK11-1676E

### RAC-RK11-1570

Water and vacuum gauge kit with visual audible alarm. (For 900 and 1000 only).



RAC-RK11-1570

## **Parker Racor Compact Filters For Petrol / Diesel Applications**

Designed for use with small petrol engines. Typical applications include small outboard engines, personal watercraft, small gensets, snow machines and lawn mowers and has a compact design allowing for easy installation and service.

Part no.	Model	Max. flow rate lph		Port thread NPTF	Height mm	Width mm	Depth mm	Element removal space mm	Replacement element
		Petrol	Diesel						
301281	025-RAC-01	95	56	1/4"	109	57	53	40	RAC-S2501
301282	025-RAC-02	95	Not suitable	1/4"	109	57	53	50	RAC-S2502



301281

## **Parker Racor Snap-On Filters**

**SNAPP.** The fuel filter change that changes everything.

Now, getting the fuel filtration you need is a SNAPP.



The one-piece, high performance, Snap-in fuel filter water separator.

Easy to install, service and prime. At just 4" x 8", SNAPP fits anywhere, protects everywhere. The patented bracket attachment method and quick connect fittings result in filters that require no tools to service.

3/8" quick connect fittings

Large finger tabs for one-handed removal

Durable glass-filled nylon body

Clear nylon bowl for water level detection

Drain tap

Patented quick attachment method (pivot and snap fit) - no tools required

Patented Aquabloc® filter media in 2, 10 or 30 micron rating. The Aquabloc® media is the world's definitive filtration protection - it's 99% effective in separating water and solid contamination from petrol, diesel, bio-diesel and bio-ethanol.

Marine version

- For all engines up to 140 HP, 100LPH fuel flow rate
- Features premium Racor Aquabloc® filtration and quality construction
- The durable construction resists damage from impact, pressure and corrosion
- Universal bracket accommodates bolt spacing of 2" to 2-1/2" apart, fitting many popular existing mounting locations
- The clear bowl allows a water-in-fuel condition to be immediately visible
- Service by simply squeezing the tabs together and pulling. Only 2-1/2" in front of the filter is required for clearance. To reverse the flow direction, the filter can simply be turned around in the bracket
- Port size: 9.5mm (3/8"), includes quick connect fittings (per SAE J2044) for use with 5/16" ID hose
- Easy to prime, just flip upside down and prime with drain bung



Industrial Version (Black) Suitable for diesel, bio-diesel		
Filter with drain and steel bracket	Replacement service filter	Micron
RAC-23106-10	RAC-R23107-10	10
-	RAC-R23107-30	30

Marine Version (White) Suitable for all fuels		
Filter with drain and stainless steel bracket	Replacement service filter	Micron
RAC-23299-10	RAC-R23298-10	10
RAC-23299-30	RAC-R23298-30	30

**Parker Racor** Spin-On Diesel Fuel Filters

Powerful primer pumps integrated into mounting heads



Die cast aluminium heads with multiple ports make installation easy, as well as adding options.

The best gaskets and 'O'-rings available for consistent, sure seals.

Aquabloc® media is corrugated which means more surface area exposed for fuel filtration and more dirt holding capacity.

Polymer bowls are virtually indestructible. They won't discolour from exposure to alcohol additive or UV light.

Positive seal self-venting drain eliminates leaks and speeds service

A die cast aluminium bowl is available for most models.

Racor filters in the spin-on fuel filter range include filters for diesel or petrol (gasoline) engines.

The spin-on range use Aquabloc® media, in a simple to service, quick change filter element. Bowl choices for Racor filters are see through polycarbonate or aluminium.

Where authority approval is required, please use Racor filters with metal bowls, many of which also carry UL approval for small craft.

Higher flow rates available, please see our website [www.asap-supplies.com](http://www.asap-supplies.com)

**Features and benefits:**

- Features Aquabloc® technology which repels 99% of water
- Available in several sizes to suit many applications
- Flow rates up to 946 lph
- Available with built-in primer
- Compact
- Simple to change elements
- Available in 2, 10 and 30 micron
- Multiple port configurations

**100 Series (110A - 120A - 152)**

Maximum protection in minimum space. This series of filters offer reliable protection for smaller diesel engines used in generator sets, pressure washers and other equipment. Their compact size fits tight mounting locations and multiple ports offer installation flexibility.

**200 Series (215 - 230 - 245)**

Improved for greater versatility. The 200 series filter/separators come standard with an integral priming pump and a new see through contaminant bowl which can operate in applications up to 30psi. Another design upgrade is the optional 200 watt in bowl heater for colder operating conditions. Applications include light duty and medium duty trucks and vehicles, construction, agricultural and other diesel powered equipment.

**400 Series (445 - 460 - 490)**

Compact units which feature a built-in primer pump, for quick and easy servicing. Options include fuel heater kits and water probe. Racor 400 Series are also available with a metal bowl, which are fire tested to ISO 7840:2004, fulfilling the requirements set out in the ISO 10088:2001 small craft directive. Racor 400 series can be mounted directly on the engine, if so required.

**600 Series (660 - 690)**

All 600 Series Spin-on fuel filter/water separators feature multiple fuel ports and a built in mounting bracket for installation convenience and flexible mounting.



301458



301468



301479



RAC-445R10



RAC-460R10



RAC-490R10



RAC-690R10

With Integral Primer Pump							
Model no.	215	230	245	445	460	490	690
See through bowl	301458	301468	301478	RAC-445R10	RAC-460R10	RAC-490R10	RAC-690R10
Metal bowl unit	RAC-215RMAM (30 micron)	301469	301479	-	-	-	-
Max. flow rate lph	57	114	170	170	227	341	341
Port size NPTF	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"
Number of ports	3	3	3	4	4	4	7
Height mm	211	229	267	267	279	300	259
Width mm	102	102	102	114	114	114	114
Depth mm	102	102	102	121	121	121	114
Replacement element 2 micron	301451	301461	301471	RAC-R45S	RAC-R60S	RAC-R90S	RAC-R90S
Replacement element 10 micron	301453	301463	301473	RAC-R45T	RAC-R60T	RAC-R90T	RAC-R90T
Replacement element 30 micron	301455	301465	301475	RAC-R45P	RAC-R60P	RAC-R90P	RAC-R90P

Without Integral Primer Pump				
Model no.	110A	120A	152	660
See through bowl	-	301101	301152	RAC-660R10
Metal bowl unit	301003	301103	-	-
Max. flow rate lph	57	57	170	227
Port size NPTF	1/4"	1/4"	3/8"	3/8"
Number of ports	4	4	2	7
Height mm	148	166	156	259
Width mm	82	81	112	114
Depth mm	84	81	112	114
Replacement element 2 micron	-	301811	-	RAC-R60S
Replacement element 10 micron	301803	301813	RAC-R52T	RAC-R60T
Replacement element 30 micron	-	301815	RAC-R52P	RAC-R60P



## Parker Racor Dual Spin-On Diesel and Petrol (Gasoline) Filter / Separators

With the Racor dual spin-on filters, a simple turn of the integral handle puts a clean filter into service when the online filter gets dirty, so engines can keep operating. Maximum fuel flow is 151lph and 454lph, respectively, with both filters online (or one-half maximum fuel flow with one filter online). Three micron ratings can be specified and an optional metal bowl is available for petrol and severe service application.

**2 x fittings (M18 x 1.5)** - Both filters have M18 x 1.5 female ports. 75/B32016 comes with fittings M18 x 1.5 to 3/4" UNF male. 75 / B32009 comes with fittings M18 x 1.5 to 7/8"-14 UNF male.

See through bowl	Metal bowl	Model	Maximum Flow rate per filter lph	Replacement element 2 micron	Replacement element 10 micron	Replacement element 30 micron
301411	301413	75/B32016	75.5	301061	301063	301065
301421	301423	75/B32009	227	301426	301427	301428



**Please note** Element replacement is not possible while the engine is running. If used in petrol (gasoline) applications, no heaters or water detection can be used.

## Parker Racor Spin-On Filters For Petrol / Gasoline Applications

Must be installed in the suction (vacuum) side of the fuel or transfer pump. Please contact our sales office if you have any queries regarding the correct filter for your specific application. See through bowl filters are not recommended for inboard engine applications. *Note: All designed for an operating temperature range of -40°C to +124°C.*

Part no.	Model	Max. flow rate	Port thread NTPF	Height mm	Width mm	Depth mm	Element removal space mm	Replacement element
301003	110A	132 lph	1/4" -18	148	82	84	51	301803 (R11T)
301221	120R-RAC-01	114 lph	1/4" -18	166	81	81	25	301228 (S3240)
301223	120R-RAC-02	114 lph	1/4" -18	166	81	81	25	301229 (S3240UL)
301231	320R-RAC-01	227 lph	1/4" -18	238	102	102	25	301238 (S3227)
301233	320R-RAC-02	227 lph	1/4" -18	238	102	102	25	301239 (S3228UL)
301241	660R-RAC-01	454 lph	3/8"	280	106	114	25	301248 (S3232)
RAC-490R-RAC-01	490R-RAC-01	341 lph	3/8"	241	114	121	25	301238 (S3227)



## Parker Racor Filter Upgrades

Spin on petrol filters designed to fit most Quicksilver and OMC applications.

### RAC-B32013

Replaces most Quicksilver elements and bowls. Also, fits Yamaha, Suzuki, SMI, Volvo Penta, Sierra, Aqua-Power and other filter heads. With see through bowl. **For outboard applications only.**

Replacement element: **RAC-S3213**



### RAC-B32014

Replaces most OMC elements. With see through bowl. **For outboard applications only.** Replacement element: **RAC-S3214**



**Parker Racor** Fittings For Racor Spin-On Filters


Part no.	Pipe connection	Thread	Type
301951	1/4" (6mm) hose	1/4" NPTM	Straight
301942	5/16" (8mm) hose	1/4" NPTM	90°
301952	5/16" (8mm) hose	1/4" NPTM	Straight
301943	3/8" (9.5mm) hose	1/4" NPTM	90°
301953	3/8" (9.5mm) hose	1/4" NPTM	Straight
301957	1/4" BSP male	1/4" NPTM	Straight
301958	3/8" BSP male	1/4" NPTM	Straight
603417	3/8" compression	1/4" NPTM	90°
603590	3/8" compression	1/4" NPTM	Straight
301960	3/8" BSP male	3/8" NPTM	Straight
RAC-953-N6-H6	10mm hose	3/8" NPTM	90°
301981	3/8" BSP male	M18 x 1.5 male	Straight
301983	1/2" BSP male	M18 x 1.5 male	Straight
301989	N/A	M18 x 1.5 male	Sealing washer

**Parker Racor** Spin-On Accessories


RAC-RK22628

Wrench for use with all spin-on filters to remove the bowl.



RAC-RK30476

RAC-RK30476

Replacement self venting drain kit for use with all Racor spin-on elements with a clear bowl. Drain kit includes seals.

**Parker Racor** Replacement Bowls

Metal and see through bowl replacements for both Diesel & Petrol Spin-On Fuel Filters



RAC-RK30473-02



RAC-RK30476



RAC-RK10109

Model no.	See through bowl	Metal bowl
75/B32016	-	RAC-RK10109
120	-	RAC-RK10109
120A	RAC-RK10215	-
120R	RAC-RK10222	-
215, 230, 245	RAC-RK22350-02	RAC-RK22368
320R	RAC-RK30475	-
400	-	RAC-RK30473-02
600	-	RAC-RK30473-02

**Parker Racor** FBO Units

Racor FBO series is designed to meet tough hydrocarbon refuelling conditions as well as being easy to use and maintain. It is suitable for fuel filling and dispensing applications or can be used as a primary fuel filter and water separator for large engines. Suitable for use with diesel, petrol and kerosene.

This filter assembly has a steel constructed bowl with a die-cast aluminium head. They feature a slotted locking ring collar with 4 bolts which can be hand loosened to allow for easy element change outs. No special tools are required. They have a manual drain and vent valve.

A range of optional extras are also available for the Racor FBO series, including a mounting bracket and a sight level gauge.

We have listed the replacement filter separator elements. For pre-filter elements please visit our website [www.asap-supplies.com](http://www.asap-supplies.com) or contact our helpful sales team.



RAC-FBO-10

RAC-FBO-14

RAC-FBO-60329

Please note  
No element is supplied with the filter.

Part no.	Diesel Max. flow rate lpm	Petrol Max. flow rate lpm	Jet fuel Max. flow rate lpm	Port thread NPT	Height mm	Width mm	Depth mm	Filter separator element 5 micron	Filter separator element 10 micron	Filter separator element 25 micron
RAC-FBO-10	68	170	132	1-1/2"	478	164.8	88.9	RAC-FBO-60328	RAC-FBO-60353	RAC-FBO-60329
RAC-FBO-14	95	246	189	1-1/2"	580	164.8	88.9	RAC-FBO-60337	RAC-FBO-60356	RAC-FBO-60338

Maximum flow is with filter / separator element.

**Parker Racor** CV and CCV Crankcase Vents


See Engine Spares and Gearboxes section, page 93 for more information.

**Parker Racor** RVFS


The Racor RVFS series filter vessels have been designed to remove liquid solid contaminants from many types of fuel, where high flow rates are required up to 757 lpm.

With a choice of element options and accessories, they offer exceptional performance and value for money on fuel filling and dispensing applications. For model and technical specifications, please contact our sales department.

**Parker Racor** Fuel Filling Funnels

Contamination in your tank can come from your fuel source. Water, dirt and the dreaded diesel bug can all be transferred when refuelling.

Part no.	Model	Height x diameter	Flow lpm
301011	RFF1C	152 x 89mm	10
301013	RFF3C	229 x 140mm	15
301018	RFF8C	254 x 216mm	19
301020	RFF15C	254 x 216mm	56

301011  
127 Microns301020  
76 Microns

- Rugged construction
- Four sizes - four flow rates
- Corrosion resistant
- Teflon coated SS filter
- Electro-conductive plastic
- Visually see any water and dirt in your fuel

## Elements - Quick Reference Guide

Never compromise the effectiveness of your Racor fuel filter / water separator. Always insist on genuine Racor elements with Aquabloc® water repelling properties. Only genuine Racor elements will ensure that your Racor filter performs as they designed it to. Don't leave it to chance. Racor elements are colour coded – **Brown 'S' is 2 microns, Blue 'T' is 10 microns and Red 'P' is 30 microns.**

A 30 micron filter (or primary filter) is used to filter raw fuel (or poor quality fuel) before it can be further filtered by finer media such as a 10 or 2 micron. A 10 micron filter (or secondary and even final) is used to filter fuel which is known to be of very good quality. A 2 micron filter (or final filter) is the finest filtration available and is the last filter used prior to engine ingestion.

These are some of the most popular Racor replacement elements. For any other fuel filter element, please see our website [www.asap-supplies.com](http://www.asap-supplies.com) or feel free to contact our sales office on +44 1502 716993



*Extra savings available when you order a box of 12 elements, please add -12 to the part number (turbine elements only).*

Racor no.	ASAP Part no.	Microns
2000SM	301821	2
2000TM	301823	10
2010PM	301855	30
2010PM	301855-12	30
2010SM	301851	2
2010SM	301851-12	2
2010TM	301853	10
2010TM	301853-12	10
2010-149W	301857	149 gauze
2020PM	301875	30
2020PM	301875-12	30
2020SM	301871	2
2020SM	301871-12	2
2020TM	301873	10
2020TM	301873-12	10
2020-149W	301877	149 gauze
2040PM	301865	30
2040PM	301865-12	30
2040SM	301861	2
2040SM	301861-12	2
2040TM	301863	10
2040TM	301863-12	10
2040-149W	301867	149 gauze
B32013	RAC-B32013	10
B32014	RAC-B32014	10
R11T	301803	10
R12P	301815	30
R12S	301811	2
R12SUL	RAC-R12SUL	2
R12T	301813	10
R15P	301455	30

Racor no.	ASAP Part no.	Microns
R15S	301451	2
R15T	301453	10
R20P	301465	30
R20S	301461	2
R20T	301463	10
R24P	301835	30
R24S	301831	2
R24T	301833	10
R25P	301475	30
R25S	301471	2
R25T	301473	10
R26P	301845	30
R26S	301841	2
R26T	301843	10
R45P	RAC-R45P	30
R45T	RAC-R45T	10
R52P	RAC-R52P	30
R52T	RAC-R52T	10
R60P	RAC-R60P	30
R60T	RAC-R60T	10
R60T-D-MAX	RAC-R60T-D-MAX	10
R60S	RAC-R60S	2
R90P	RAC-R90P	30
R90T	RAC-R90T	10
R120P	RAC-R120P	30
R120T	RAC-R120T	10
R160P	RAC-R160P	30
R160T	RAC-R160T	10
S2501	RAC-S2501	250
S2502	RAC-S2502	10
S3201P	RAC-S3201P	30

Racor no.	ASAP Part no.	Microns
S3201T	RAC-S3201T	10
S3204P	RAC-S3204P	30
S3204TUL	RAC-S3204TUL	10
S3208P	301075	30
S3208S	301071	2
S3208T	301073	10
S3209P	301428	30
S3209S	301426	2
S3209T	301427	10
S3211TUL	RAC-S3211TUL	10
S3212	RAC-S3212	30
S3213	RAC-S3213	10
S3214	RAC-S3214	10
S3216P	301065	30
S3216S	301061	2
S3216T	301063	10
S3220TUL	RAC-S3220TUL	10
S3221UL	RAC-S3221UL	10
S3222	RAC-S3222	10
S3226	RAC-S3226T	10
S3227	301238	10
S3228TUL	301239	10
S3232	301248	10
S3232TUL	301249	10
S3240	301228	10
S3240TUL	301229	10
PFF296	RAC-PFF296	5
PFF5525	RAC-PFF5525	25
PFFDW51125	RAC-PFFDW51125	25

## Replacement Separ Elements



**RAC-PFF5600**  
Replaces Separ 01002 and 01010

**RAC-PFF5601**  
Replaces Separ 01030

## Fuel Filter Element Kit

### RAC-RK22610

The Racor RK 22610 fuel filter element kit consists of 1 x 8021 40 micron element and 1 x 8022 coalescing element supplied complete with the required seals. For use with Racor 812, 75812 and 79812 fuel filters.



RAC-RK22610

## Fuel Filter Element for Mercury Engines

### RAC-31871

Suitable for Mercury Verado & Optimax models DFI135-275hp engines.

Sold per pack of two elements.



RAC-31871

## CAV Type Fuel Filters

The ever popular CAV type filters are fitted to many vessels in operation today. These low cost units are available in a range of options, including glass bowls to allow visual inspection and aluminium bowls for use on inland waterways. These CAV type fuel filters can also be mounted directly to the engine. We offer a choice between pre-filter and separators (which are available with or without the filter element). Some CAV filters come with an integrated hand fuel priming pump, although priming pumps are available to retro fit on to these filters with the use of a banjo bolt.

Please note

*These filters do not offer the Aquabloc® protection that a Racor filter unit offers. Please don't hesitate to contact us should you need advice on upgrading to Racor fuel filters.*



*Note: All the listed filters are 1/2" UNF thread. All fitted with a plastic bung - if metal drain is required for BSS, please order 1 x 302998.*

Part no.	Specification	Bowl type	Flow rate lph	Spare element	Replacement Racor element
302001	Filter only (OEM)	Alloy	45	199296	RAC-PFF296
302002	Filter only (OEM)	Alloy	90	103132	-
302003	Filter / separator	Glass	45	199296	RAC-PFF296
302007	Filter / separator	Glass	90	103132	-
302004	Separators only	Glass	45	-	-
302005	Separators only	Alloy	45	-	-
302006	Filter / separator	Alloy	45	199296	RAC-PFF296
302008	Filter / separator	Alloy	90	103132	
302009	Filter only (twin)	Alloy	90	199296 (2)	RAC-PFF296

### Hand Primers



302066



302059

Designed to fit to the existing filter head and helps to prime the engine. For 1/2" UNF thread ports. Secures to filter with a single banjo bolt.

Part no.	Description
302066	For priming out of filter
302067	For priming into filter
302059	Banjo bolt for securing
302099	Sealing washer (2 required)

### Fittings for CAV Type Filters



302094



ORB 22140

Part no.	Connection	Thread UNF
302094	3/8" OD pipe compression	1/2"
302095	1/4" BSP male	1/2"
302096	1/4" BSP female	1/2"
302097	1/4" OD pipe compression	1/2"
302098	5/16" OD pipe compression	1/2"
302099	Port washer	1/2"
ORB 22140	1/2" x 20 UNF male	3/8"

### Filter With Primer



302052

Engine mounted filter incorporating a hand fuel priming pump. Port thread M14 x 1.5.

Part no.	Description
302052	Filter with 2 x inlets and 2 x outlets
199296	Replacement element



302082

Part no.	Connection	Thread
302081	6mm OD pipe compression	M14 x 1.5
302082	8mm OD pipe compression	M14 x 1.5
302083	10mm OD pipe compression	M14 x 1.5
302084	3/8" OD pipe compression	M14 x 1.5
302089	Port washer	M14 x 1.5

### Conversion Parts

#### 302025

Metal bowl with adaptor stub to convert a 302003 or 302004 into filters with alloy bowls (302006 / 302005).



302025

To meet Inland Waterways specifications, CAV type filters must be fitted with an aluminium bowl and metal drain plug. Many existing owners have glass bowls fitted, we offer aluminium bowl conversion kits. A separate metal bung is available if required. (Part number: 302998 not supplied in kit).

Part no.	Description
302994	Seal ring CAV filter element to bowl
302997	Washer for CAV drain bungs
302998	Metal drain bung CAV fuel filters (extra)

### CAV Filter Spares



302992



302995



302998



302001-3

Part no.	Description
302099	1/2" port washer
302991	Seal ring CAV element to filter head
302992	Bolt large leak off for CAV filters
302993	Washer for 302992 banjo bolt
302994	Seal ring CAV filter element to bowl
302995	Glass bowl for 302003 + 302004
302997	Washer for CAV drain bungs
302998	Thumbscrew head metal bung
302999	Plastic drain bung & washer CAV fuel filters
302001-1	Bleed screw for CAV filter
302001-2	Plug 1/2" UNF port blank & washer
302001-3	Filter head CAV fuel filter 1/2 " UNF
302001-4	Bolt for head of CAV type filters
302007-1	Glass bowl only for 302007 filter

## Spin-On Conversion Kit for CAV Fuel Filters

This spin-on fuel filter conversion kit is an ideal replacement to clamp together CAV type filters as fitted to many engines.

The head is to standard CAV type configuration, with the same mounting arrangement, four 1/2"UNF female ports and a bleed screw. It comes with a simple to change spin-on fuel filter element (one supplied in kit). Less mess, less frustration. This does not provide the Aquabloc® protection of the Racor spin on conversion units above.

Conversion supplied without any port fittings, adaptors or bungs. Please order extra as required if you cannot use them from your old CAV type fuel filter installation.



302040

Replaces



CAV type fuel filters

Part no.	Description
302040	Spin-on fuel filter kit
103423	Spin-on service element



103423

## Spin-On Filter Conversion Kit For CAV Fuel Filters

The Parker Racor spin-on CAV conversion kit contains an adaptor which can be easily fitted to the existing CAV fuel filter head, without having to remove or disconnect existing pipework. A replaceable spin-on Racor fuel filter unit can then be fitted. This will provide Aquabloc® protection for the engine against water and debris contaminant, whilst making servicing much easier by simply spinning off the old filter, and spinning on a new one. There is a choice of collection bowls either see through polycarbonate or aluminium (see online), making this an ideal conversion for pre-filter applications.



You will need:

Part no.	Description
301050	Converter CAV head
RAC-RK10215	See-through bowl



301050

And an element:

For 76lph		For 113lph	
Part no.	Micron	Part no.	Micron
301061	2	301071	2
301063	10	301073	10
301065	30	301075	30



RAC-RK10215

301063

## Mini Bowl Fuel Filters

These popular mini bowl filters are ideal for small diesel engines, gensets and diesel heaters (Webasto etc).

Part no.	Description
302078	Element for short bowl



302070

302078

## Champion Fuel Filter Element

### 103101

Champion L101 inline fuel filter element. Can be used with 1/4" or 5/16" fuel lines.

Height: 104mm  
Outer diameter: 36mm  
Rating: 10 micron  
Hose spigots: 6mm and 8mm



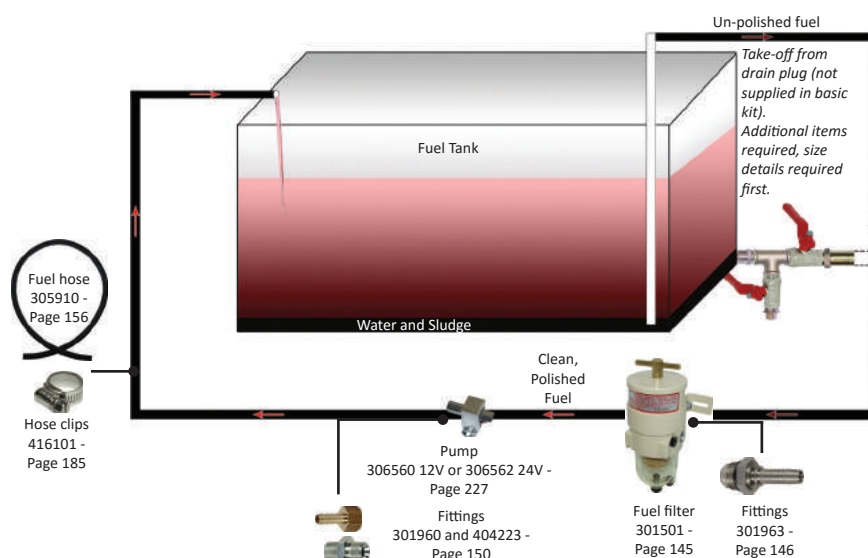
103101

## Typical Fuel Polishing System

The daily build-up of condensation in a fuel tank can lead to fuel contamination through bacterial growth. Fuel contamination such as the "Diesel Bug" is a problem when it comes to storing diesel and is one of the most frequent reasons for breakdowns.

Diesel Bug loves wet static fuel. Circulating fuel through a particle and water removing filter will help reduce the contaminants, prolonging fuel life and reducing the build-up of bacterial growth (leading to Diesel Bug). The simplest of fuel polishing systems involves taking the fuel from the tank, pumping it through a filter then returning it to the opposite side of the tank.

Here is an example of a fuel polishing system:



 **Diesel Tanks**

Vetus fuel tanks are made from high grade linear polythene which is both rust free and less prone to condensation compared with metal tanks. Other sizes available at [www.asap-supplies.com](http://www.asap-supplies.com)



V-FTANK25



V-ATANK42



V-ATANK110

Part no.	Capacity litres	Dimensions (l x w x h) mm
V-FTANK25*	25	490 x 220 x 300
V-ATANK042	42	460 x 350 x 290
V-ATANK061	61	660 x 350 x 290
V-ATANK088	88	800 x 400 x 330
V-ATANK110	110	1200 x 350 x 290
V-ATANK137	137	1200 x 400 x 330
V-ATANK170	170	1100 x 440 x 400
V-ATANK215	215	1000 x 400 x 600
V-ATANK335	335	1700 x 700 x 350
V-ATANK390	390	1400 x 400 x 800

\* Fitting kit included.  
50mm intake, 16mm vent, 8mm supply/  
return. Other kits listed on the right.

Dimensions shown have a +/- 2% tolerance

Tank Kits			
Part no.	Filler mm	Supply / return mm	Vent mm
V-FTL3808	38	8	16
V-FTL3810	38	10	16
V-FTL3815	38	15	16
V-FTL5108	51	8	16
V-FTL5110	51	10	16
V-FTL5115	51	15	16



V-FTLD

Part no	Vetus ref.	Description
V-FTLD	FTKITD	Interconnection kit for two diesel fuel tanks.



306355

**306355****Vetus Fuel Tank Connection Kit**

Contains aluminium boss, blind cover for a tank gauge sender, O-ring sealing & backing ring, filler line, supply dip pipe, two mounting straps, all instructions & fittings.

**Dip Level Senders**

- Non metallic float suitable for water, diesel and petrol
- Order sender resistance to match gauge resistance
- Suitable for 12V and 24V
- Not suitable for waste tanks

For more information see Gauges section, page 165.



704418

American Resistance	European Resistance	Sender length mm
704416	704517	250
704418	704519	290
704426	-	385
704444	704545	550
704464	704565	750

**Fuel Level Gauges**

FAR12801

Designed to read the level of a petrol or diesel tank.

For more information on fuel level gauges, please see Gauges section, page 163.

Style	American resistance	European resistance
Euro Black	FAR12801	FAR12802
Euro White	FAR12901	FAR12919
Dress White	FAR13101	FAR13117
Chesapeake S/S Black	FAR13701	FAR13721
Chesapeake S/S White	FAR13801	FAR13818
Kronos	FAR19001	-

**No Smell Fuel Filters**

- For fuel tanks only
- Installs in the vent line and the replaceable element removes unpleasant fumes that can come from the vent line
- Diesel must not be allowed to enter the no smell filter unit
- Small and large body options
- Further details can be found online at [www.asap-supplies.com](http://www.asap-supplies.com)



V-NSF16DS

Part no.	Pipe size mm	Length mm	Width mm	Height mm	Spare filter
V-NSF16DS	16	107	111	111	V-NSF16FES

Spare filter element for large filters also available (part no. 507879).

**Breather Nipples**

Provided with an easily cleaned stainless steel gauze which functions as a flame arrestor. The Vetus breather nipple is suitable to be used for drinking water, fuel and waste water applications.



V-AB19B

Part no.	Hose size	Shape
V-AB16B	16mm	Angled
V-AB19B	19mm	Angled
V-AB19S	19mm	Straight
V-AB25B	25mm	Angled
V-AB38B	38mm	Angled



Other tank vents are available to suit your fuel system. Please see Ventilation section, page 266, or visit [www.asap-supplies.com](http://www.asap-supplies.com)

## Fuel Treatments

If you have, or want to prevent the dreaded 'Diesel Bug', then we offer a range of treatments to help. Diesel is an organic fuel and therefore a food for microscopic fungi, yeast and bacteria (Diesel Bug). There is water for germination, carbon for food, oxygen and sulphur for respiration and trace elements for growth. The microbes are all independent, separate living cells that grow in colonies. These can develop into 'mats' easily seen in the fuel with the naked eye.

The growth and activity of the organisms can be very rapid. In other situations the development can be at a very slow rate, difficult to detect without laboratory testing. They can lie dormant in the tank until the moisture content and temperature cause the promotion of growth.

4 well known symptoms characterise the presence of micro organisms:

- Odour - usually like rotten eggs
- Colour - fuel is darker and often khaki
- Appearance - murky, slimy or matted 'gunk'
- Corrosion - due to the acids produced



### Diesel Bug Test Kit

314200

Fuelclear M68 Microbial fuel test kit

A simple, DIY and cost effective kit to check for signs of the harmful diesel bug. Simply immerse the dip slide into your fuel for 10 seconds, ensuring adequate coverage on both sides of the slide. Replace the dip slide into the plastic tube and leave in a warm environment for 48 hours and interpret results according to the chart on the back of the box. More information online at [www.asap-supplies.com](http://www.asap-supplies.com).

What is included in the kit?

- 2 x Testing slides
- 1 x Pair of disposable gloves
- 2 x Labels
- Kit Instructions
- Comparison charts for both bacterial and fungal levels



314200



### Fuel Biocide

Designed to cure the harmful effects of diesel bug on board any vessel. With regular application it can also be used to prevent diesel bug.

Each 250ml bottle of fuel biocide will treat up to 1,500 litres of fuel as a preventative treatment, 750 litres as a curative treatment.

For more information, please visit our website [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Size ml
314212	250
314212-20	20 x 250ml



314212

### SOLTRON Fuel Treatment

314105

Soltron fuel treatment enzyme (500ml bottle), treats 2500 litres.

Soltron® contains enzymes which break up contaminants that prevent clean efficient combustion. The hydrocarbon elements found in diesel sludge are converted back into the fuel and burnt during combustion. The increase in combustion efficiency results in emissions reductions and reduced odours.



314105

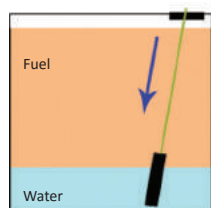


### Fuel Tank Water Remover

- AquaSock removes the water and turns it into a gel
- Quick and easy to use
- Designed to be inserted into the fuel tank via an access plate
- Special water removing chemical within the weighted sock like bag
- Helps prevent diesel bug, which thrives and multiplies in water in fuel
- Ideal for regular treatment

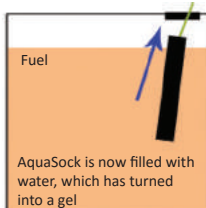
For more information, please visit our website [www.asap-supplies.com](http://www.asap-supplies.com)

AquaSock drops in...



Fuel tank before AquaSock

..Water comes out



Fuel tank after AquaSock

Part no.	Collects	Quantity
315012	355ml	1
315012-10	10 x 355ml	10
315028	828ml	1



315028



305891



305892



## Lifeguard Anti-Spill Devices

Next time you fill up, watch your fuel vent line. A typical refuelling will send up to a half a gallon of fuel spilling overboard. Fuel spillage is not only expensive, it's absolutely deadly to the environment in fragile lakes, rivers and waterways. In some areas, it can even involve fines for pollution. The Racor fuel / air separator will eliminate fuel overflow during refuelling and fits neatly into your vent line, replacing part of the line.

It efficiently separates air from fuel forced into the vent line during refuelling, vents the air and returns the fuel back to the tank. The Lifeguard captures fuel normally discharged due to agitation and thermal expansion up to 2.4 psi. Maintenance free, there is nothing to rust or corrode. Fittings included. One unit per line, both models fit 16mm (5/8") vent lines.

Model	LG100	LG50
Part no.	305891	305892
Applications	Diesel or petrol	Petrol
Dimensions (l x d) mm	250 x 100	150 x 45
Maximum air flow	8lps / 17cfm	5.6lps / 12cfm
Vent line size mm (inch)	16 (5/8")	16 (5/8")
Kit to adapt to 1/2" NTPF	305895	305895



## Splash Stop

- Meets all the latest CE and ABYC standards
- Connected directly under the deck filler plate and ensures that overflowing fuel or foam cannot come back out, thereby soiling the deck and possibly polluting the water
- Housing and hose connection are made of anodised aluminium
- A matching diameter stainless steel deck entry is required
- Suitable for both diesel and petrol
- The type of hose used should conform with or exceed ISO 7840 Marine Fuel A2 or SAE J1527 A2



V-FS5116

Part no.	Vetus ref.	Filling hose I.D.	Deck entry	Breather line	Dimensions mm l x w x h
V-FS3816	FS3816	38 + 51mm	38mm	16mm	146 x 86 x 121
V-FS5116	FS5116	38 + 51mm	51mm	16mm	146 x 86 x 121

## SEAFLOW A1 Fuel Hose

- Seaflo marine fuel delivery hose suitable for diesel, biodiesel and unleaded fuel
- Can be used in fuel supply and return lines, fuel tank vents and fuel tank filling, as well as other applications that are in fire risk areas
- Approved to R.I.N.A. and Lloyd's register specification
- Specifically manufactured to meet ISO 7840 requirements, meaning it is fire resistant for at least 2 minutes
- Features a textile reinforced black, synthetic rubber cover, which is resistant to abrasions, weather, heat and oil
- The inner tube is also a synthetic rubber which encloses up to 50% of fuel odours
- Temperature range: -35°C to +80°C
- Sold per metre, in 10 metre coils or 40 metre coils



305910



Per metre	10 metre coil	40 metre coil	I.D. (inch)	O.D.	Bend radius	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
305906	305906-10	305906-40	6mm (1/4")	16mm	60mm	14 (203)	416202
305908	305908-10	305908-40	8mm (5/16")	17mm	80mm	14 (203)	416202
305910	305910-10	305910-40	10mm (3/8")	19mm	100mm	14 (203)	416203
305913	305913-10	305913-40	13mm (1/2")	22mm	120mm	10 (145)	416204
305916	305916-10	305916-40	16mm (5/8")	26mm	160mm	10 (145)	416205
305919	305919-10	305919-40	19mm (3/4")	30mm	190mm	10 (145)	416206

## SEAFLOW Superflex Fuel Hose

- Seaflo Superflex marine fuel transfer hose suitable for diesel, biodiesel and unleaded fuel
- Can be used in fuel supply and return lines, fuel tank vents and fuel tank filling, as well as other applications that are in fire risk areas
- Specifically manufactured to meet ISO 7840 requirements, meaning it is fire resistant for at least 2 minutes
- Features a textile and steel wire reinforced black, synthetic rubber cover, which is resistant to abrasions, weather, heat and oil
- Inner tube is also a synthetic rubber which encloses up to 50% of fuel odours
- Extremely flexible and light, allowing for ease of installation
- Temperature range: -35°C to +80°C
- Sold per metre or 20 metre coil



305838

Per metre	20 metre coil	I.D. mm (inch)	O.D.	Burst pressure bar (psi)	Working pressure bar (psi)	Vacuum bar (psi)	Bend radius	Stainless steel 316 superclamp to suit
305825	305825-20	25 (1")	37mm	10 (145)	2.5 (36)	0.35 (5)	125mm	416208
305832	305832-20	32 (1-1/4")	44mm	10 (145)	2.5 (36)	0.8 (11)	160mm	416209
305838	305838-20	38 (1-1/2")	50mm	10 (145)	2.5 (36)	0.8 (11)	190mm	416210
305851	305851-20	51 (2")	64mm	10 (145)	2.5 (36)	0.8 (11)	254mm	416212

## SEAFLOW Pre-made Fuel Hose

- Specifically manufactured to meet ISO 7840 requirements, meaning it is fire resistant for at least 2 minutes
- Pressure tested to 1500psi
- Plain spigot hose end

For more information on the below hoses and our full range of hose, please see Hose section, page 178. Other sizes available at [www.asap-supplies.com](http://www.asap-supplies.com)

Spigot size 1/4"	Spigot size 5/16"	Spigot size 3/8"	Length
302811	302821	302831	12"
302813	302823	302833	18"
302814	302824	302834	24"
302815	302825	302835	30"
302816	302826	302836	36"
302817	302827	302837	42"



## Fuel Fillers



305001

For fuel deck fillers, please see our Deck section, pages 24-25.

## Pipe Clips and Copper Saddles



304672



413759



304981

For pipe clips and copper saddles, please see Hose section, page 186.

## Vetus Anti-Theft Device

### V-FUELSAFE

With ever increasing fuel prices, the theft of fuel from boats is becoming a far more common occurrence.

The Vetus fuel safe device allows fuel in, but doesn't allow siphon hoses in. Simply insert into the deck filler, where it lodges itself in and cannot be removed.

- Slips inside 38mm (1 1/2") or 51mm (2") flexible filler hose and locks to prevent fuel theft by siphoning
- 55mm x 72mm
- Suitable for both diesel and petrol
- Not for use with steel or rigid fuel pipes
- No dismantling is required



V-FUELSAFE

## SEAFLOW Copper Tubing

The Seaflo annealed soft copper piping (20 SWG) is manufactured to BS EN 12735-1:2001 standards. This copper pipe is supplied in a 10 metre coil. 30 metre coils are available online at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	O.D. inch	Working pressure
302250	1/8"	3026 PSI
302350	3/16"	1978 PSI
302450	1/4"	1891 PSI
302550	5/16"	1513 PSI
302650	3/8"	1261 PSI
302750	1/2"	945 PSI

Part no.	O.D.	Working pressure
302111	4mm	1993 PSI
302113	6mm	2211 PSI
302114	8mm	1658 PSI
302115	10mm	1324 PSI
302116	12mm	1091 PSI



Copper

## rule Refuelling Pumps



306555

The Rule submersible and inline pump is suitable for diesel, fresh water and salt water transfer with no spillage.

Connections: 13mm (1/2") Hose  
Length: 165mm  
Diameter: 38mm

Part no.	Volts	Flow rate lpm	Amps
306555	12	18	4.5
306557	24	18	2.5

## JABSCO Fuel Transfer Pumps



**Please note**  
Must not be used with petrol or other flammable liquids.



306702

Self priming light duty pumps for transfer of diesel and light oils. Some of the nitrile impeller pumps on pages 227-228 can also be used for transfer.

Part no.	Volts	Flow rate	Fuse size
306702	12	35 lpm	20
306704	24	35 lpm	10
306712	12	50 lpm	20
306714	24	50 lpm	10

## Whale Easybailer Portable Pump



506371

### 506371

Suitable for bilge water or diesel transfer. This hand held pump provides easy bail out on board small boats and the flexible hose allows you to pump out from hard to reach places.



## Electric Fuel Pumps

Suitable for pumping diesel, petrol, biodiesel, blended alcohol fuels and fuel additives. Typical uses include engine fuel pumps, fuel transfer pumps, dry lift pumps and fuel polishing pumps.



Part no.	Volts	Flow rate lph	Port size NPT Female	Dry prime height
306550	12V	121	1/8"	300mm
306552	24V	121	1/8"	300mm
306560	12V	121	3/8" - 18	600mm
306562	24V	121	3/8" - 18	300mm

## SEAFLOW Standard Brass Ball Valves

- 1/4 turn positive on / off action
- Threaded BSP Female or Male / Female
- Lever handle / tee handle
- Mounting bracket for smaller valves
- Suitable for hot water, gasoline, fuel, oil, gas oil and kerosene
- Other sizes available, please see Fittings section or view online at [www.asap-supplies.com](http://www.asap-supplies.com)



Size	Lever handle Female - Female	Lever handle Male - Female	Tee handle Female - Female	Tee handle Male - Female	Lockable safety valve	Bracket
1/4"	405001	405101	405201	405301	405081	405951
3/8"	405002	405102	405202	405302	405082	405952
1/2"	405003	405103	405203	405303	405083	405953



## Push / Pull DC Solenoids



Part no.	Volts	Murphy no.	Maximum stroke mm (inch)
306007	12V	RP-2307B	25 (1")
306008	24V	RP-2308B	25 (1")
306009	12V	RP-2309B	38 (1-1/2")
306010	24V	RP-2310B	38 (1-1/2")



**306085**  
Murphy SD85 solenoid relay (Energised to run)



**306021**  
Murphy Inline Ball Joint  
Thread size 1/4" - 28 UNF Male

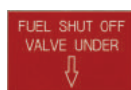


**306026**  
Murphy Clevis Yoke  
Thread size 1/4" - 28 UNF Female

For more information on the above solenoids and accessories, please see Electrical section, page 57 or visit our website [www.asap-supplies.com](http://www.asap-supplies.com)



## Signs and Labels



728051



728053



728052



728061



728071



728309



728312

Part no.	Label type	Size w x h mm
728051	Fuel shut off valve label	75 x 50mm
728052	Fuel shut off valve label	60 x 25mm
728053	Fuel shut off valve label	50 x 25mm
728061	Diesel label	100 x 25mm
728071	Diesel label	(O.D.) 130 x (I.D.) 93mm
728309	Gas shut off valve label	50 x 25mm
728312	Gas shut off valve label	75 x 50mm



## Inline Solenoid Valves

Murphy SV series valves can be used in a range of engine control and fault protection applications. Standard earth return.



306212

Part no.	Model	Voltage	BSPT
306212	SV12	12V DC	3/8"
306224	SV24	24V DC	3/8"

For more information see Electrical section, page 57.

## MYCELX Anti-splash Fuel Filling Collars



309364

**309364**  
MyCelx anti-drip collar  
(pack of 10 also available)

Other fuel / oil prevention and clean up products available, see Environmental section, pages 98-99.

- Air compressor filters
- Anti-splash fuel filling collars
- Bilge discharge filters
- Spill clean-up absorbents



311510



311611



# GAUGES

Ammeter Gauges	163	Pitot Kits	171
Battery Condition Gauges	163	Pressure Senders	166
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## Designed by boaters for boaters

All Faria instruments are put through rigorous testing to assure that you receive the best product possible and each instrument is backed by the Faria limited warranty.

## 6 popular gauge styles



### Euro Black

- Perimeter-lighted black dial
- Bold white graphics
- Black aluminium bezel
- Contoured white pointer
- Flat glass lens



### Euro White

- Perimeter-lighted white dial
- Bold black graphics
- Black aluminium bezel
- Contoured black pointer
- Flat glass lens



### Dress White

- Perimeter-lighted white dial
- Bold black graphics
- White aluminium bezel
- Contoured black pointer
- Flat glass lens



### Chesapeake Black Stainless Steel

- Perimeter-lighted black dial
- Stylish blue and white graphics
- Polished stainless steel bezel
- Contoured white pointer
- Domed glass lens



### Chesapeake White Stainless Steel

- Perimeter-lighted white dial
- Stylish blue and white graphics
- Polished stainless steel bezel
- Contoured black pointer
- Domed glass lens



### Kronos

- Perimeter-lighted spun aluminium dial
- Gold and black graphics
- Polished stainless steel bezel
- Flat fog-resistant lens
- Gold increments and logo on dial are embossed
- All instruments include two piece Newport pointer with white hub

## Faria Digital Instruments



FAR12581

Faria digital instruments are constantly being updated with new software and models, so please check our website for the very latest information at [www.asap-supplies.com](http://www.asap-supplies.com).

Alternatively, contact our sales department with your requirements and we will advise the current system which will most benefit you.



## Other Faria Gauge Styles

Many other different gauge styles are available as well as custom gauges, please visit our website for the full range at [www.asap-supplies.com](http://www.asap-supplies.com).



## Instrument Panels

Every engine and genset will need an instrument panel or control panel of some sort. Our range of pre-wired ASAP Electrical instrument panels have been designed to be simple to install, with their plug-in loom connections and simple crimp-on labelled engine connections. Instrument panels are available with almost any style of Faria marine or industrial gauge. Our most popular "off the shelf" instrument panels are those fitted with Faria Euro Black gauges. The range includes splash proof instrument panels, for 12 or 24V DC electrical systems. All instrument panels are supplied with earth return senders, but insulated and/or dual station senders are also available.

Our splash proof panels are not designed to be submersed in water, but are better suited to open applications.

### Deluxe Splash Proof Panels

- 12V or 24V available
- All gauges are Euro black style - Black fascia with white letters
- Tachometer (0-4000 rpm alternator sensed) with built in LCD hour clock
- Oil pressure gauge 100 PSI
- Water temperature gauge 40-120
- Voltmeter
- Warning lamps for charge, heat, low oil pressure and high water temperature
- Audible alarm
- Key switch and fuse
- All pre-wired to a multi-pin socket
- Senders supplied loose (standard earth)
- Use with a standard engine loom from list below
- Allow 110mm behind panel

Part no.	Volts	Panel size
708045	12	180 x 280mm
708065	24	180 x 280mm



With keys (not shown).

### Standard Splash Proof Panels

- 12V or 24V available
- All gauges are Euro black style - Black fascia with white letters
- Tachometer (0-4000 rpm alternator sensed)
- Oil pressure gauge 80 PSI
- Water temperature gauge 40-120
- Voltmeter
- Key switch and fuse
- All pre-wired to a multi-pin socket
- Senders supplied loose (standard earth)
- Use with a standard engine loom from list below
- Allow 110mm behind panel

Part no.	Volts	Panel size
708043	12	180 x 280mm
708063	24	180 x 280mm



With keys (not shown).

### Mini Splash Proof Panels

- 12V or 24V available
- All gauges are Euro black style - Black fascia with white letters
- Tachometer (0-4000 rpm alternator sensed)
- Warning lamps for charge, heat, low oil pressure and high water temperature
- Audible alarm
- Key switch and fuse
- All pre-wired to a multi-pin socket
- Senders supplied loose (standard earth)
- Use with a standard engine loom from list below
- Allow 110mm behind panel

Part no.	Volts	Panel size
708041	12	140 x 180mm
708061	24	140 x 180mm



With temperature switch and keys (not shown).

## Looms and Connectors

Universally compatible with all standard ASAP Electrical instrument panels. The 11 wires are labelled and supplied with a selection of crimp terminals. The length shown in the part descriptions are the bound length. There is one extra metre of unbound wire for connection to the engine.

Simply measure from the multi-pin panel connect or to a convenient point on your engine and order the next size loom.

Part no.	Length
708102	2 + 1 metres
708103	3 + 1 metres
708104	4 + 1 metres
708105	5 + 1 metres
708106	6 + 1 metres
708107	7 + 1 metres
708108	8 + 1 metres
708109	9 + 1 metres
708110	10 + 1 metres

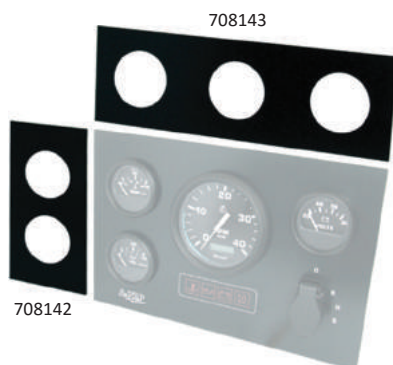


708102

Spare 11 pin loom plugs with terminals. As used in our ASAP Electrical instrument panels.



Part no.	Pins	Description
708097	11	Male
708197	11	Female



## Additional Panels

These panels have been designed to sit alongside existing panels and house additional instruments, not normally found in a standard instrument panel.

This has proved popular where customers have a basic tachometer and warning light panel and wish to monitor other engine functions, with gauges which can be easily fitted to this panel.

Part no.	Fits	Size of panel mm
708142	2 x 52mm gauges	180 x 90mm
708143	3 x 52mm gauges	280 x 90mm



## Gauge Box Sets

Your dashboard in one box. If you are looking for the simple and cost effective dashboard instrument solution then Faria boxed instrument sets are a great option to consider.

Bespoke instruments are gauges made under licence for the boat builder. These can often be expensive to replace and may even be discontinued. Faria box sets of instruments offer considerable savings over OEM bespoke replacements. In many cases a matching set of six replacement gauges covering the most popular dashboard instruments can cost less than a single bespoke tachometer.

You will also receive detailed fitting instructions as well as the pitot and tube for the speedometer. All other senders are extra if indeed they are needed (gauges work with most single station American resistance senders)

- Simple and cost effective dashboard solution
- Sets for petrol inboard (6 gauges) and outboard (4 gauges)
- Available in many popular styles
- For 12V DC applications
- American resistance

Style	For outboards	For inboards
Euro Black	FAR-KT9796	FAR-KT9799
Euro White	FAR-KT9795	FAR-KT9798
Dress White	-	FAR-KT9797
Chesapeake Black S/S	FAR-KTF004	FAR-KTF003
Chesapeake White S/S	FAR-KTF002	FAR-KTF001
Kronos	-	FAR-KTF024

Other styles available, please contact our helpful sales team for details.

For digital box sets, please see our website [www.asap-supplies.com](http://www.asap-supplies.com)



FAR-KT9796

Outboard set includes:

- 4" Speedometer (pitot) 55-60MPH
- 4" Tachometer 7000 RPM
- 2" Fuel level gauge
- 2" Voltmeter



FAR-KT9799

Petrol inboard set includes:

- 4" Speedometer (pitot) 55-60 MPH
- 4" Tachometer 6000 RPM
- 2" Fuel level gauge
- 2" Voltmeter
- 2" Water temperature gauge
- 2" Oil pressure gauge

6 popular gauge styles...



Euro Black



Euro White



Dress White



Chesapeake Black S/S



Chesapeake White S/S



Kronos



## Ammeter Gauges

- Designed to read output charge from the alternator in Amps
- Scale reads 60-0-60
- Supplied with a 12V bulb (For 24V systems, order FAR90305)
- Back illuminated
- Fits a 52mm (2") diameter hole



FAR12822  
Euro Black

Please note: These cannot be fitted with a shunt.

Style	Part no.
Euro Black	FAR12822
Dress White	FAR13149
Chesapeake Black S/S	FAR13736
Chesapeake White S/S	FAR13831



## Battery Condition Gauges

- Displays the remaining energy in a 12V battery
- The scale reads 'Empty' to 'Full' in clear colour coded segments
- Suitable for 12V DC electrical systems only
- Back illuminated
- Fits a 52mm (2") diameter hole



FAR13726  
Chesapeake Black S/S

Style	Part no.
Euro Black	FAR12823
Euro White	FAR12933
Chesapeake Black S/S	FAR13726
Chesapeake White S/S	FAR13823



## Hourmeter Gauges



FAR12835  
Euro Black

### FAR12835

- Records the running time of engines, gensets and motors to 9,999 hours
- Suitable for 12-24V DC electrical systems
- LCD display
- Fits a 52mm (2") diameter hole



## Voltmeter Gauges

- Designed to monitor the charge to the battery
- 12V scale reads 10-16V
- 24V scale reads 20-32V
- Back illuminated
- Fits a 52mm (2") diameter hole



FAR13805  
Chesapeake White S/S

Style	12V	24V
Euro Black	FAR12821	FAR12860
Euro White	FAR12911	FAR12960
Dress White	FAR13120	-
Chesapeake Black S/S	FAR13705	FAR13760
Chesapeake White S/S	FAR13805	FAR13860
Kronos	FAR19004	-



## Fuel Tank Level Gauges

- Designed to read the level of a petrol (gasoline) or diesel fuel tank
- Available for use with either American or European resistance senders
- Supplied as 12V (24V adaptors available, see page 174)
- Back illuminated
- Fits a 52mm (2") diameter hole



FAR12801  
Euro Black

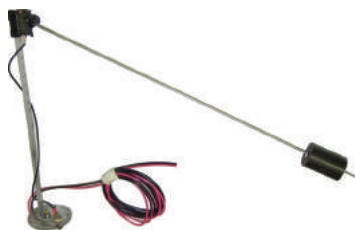
Style	American resistance	European resistance
Euro Black	FAR12801	FAR12802
Euro White	FAR12901	FAR12919
Dress White	FAR13101	FAR13117
Chesapeake Black S/S	FAR13701	FAR13721
Chesapeake White S/S	FAR13801	FAR13818
Kronos	FAR19001	-

Single Station Resistance Readings			
American	Ohms	European	Ohms
Empty	240	Empty	10
Mid	103	Mid	-
Full	33.5	Full	180

Dual station have half the resistance values of single senders.



## Fuel Float Arm Senders and Fitting Kit



FAR91007

For depth	Resistance	Single station	Dual station
8" - 16"	American	FAR91001	-
14" - 24"	American	FAR91003	FAR91004
20 - 40cm	European	FAR91005	FAR91006
36 - 60cm	European	FAR91007	-



FAR91017

### FAR91017

- Faria kit to fit a standard level sender (5 fixing hole) to a plastic tank
- Provides the screw fixing points via a foldable plastic clamp ring
- Supplied with screws and a gasket



## Waste Tank Water Level Gauge

FAR-GP8050  
Euro Black

### FAR-GP8050

Euro black waste water tank level gauge features a black bezel and dial, white pointer and writing displaying empty to full, with Perimeter back lighting and a flat lens.

- Suitable for 12V DC electrical systems (part number FAR90315 is required for 24V systems)
- Suitable for use with European resistive senders only (not included)
- The European resistance reads 10ohms empty - 180ohms full
- Senders are listed on page 165
- Fits a 52mm (2") diameter hole

FAR13118  
Dress White

## Water Tank Level Gauges

- Designed to read the level of a water tank
- Available for use with either American resistance senders or European resistance senders
- Back illuminated
- Supplied as 12V, 24V adaptors available, see page 174
- Fits a 52mm (2") diameter hole

Style	American resistance	European resistance
Euro Black	FAR12830	FAR12831
Dress White	FAR13118	-
Chesapeake Black S/S	FAR13722	-
Chesapeake White S/S	-	FAR13820

Single Station Resistance Readings			
American	Ohms	European	Ohms
Empty	240	Empty	10
Mid	103	Mid	85
Full	33.5	Full	180



## Electrical Tank Level Senders

- For use with waste water and fresh water
- Stainless steel coating to prevent dirt entering
- 5 hole international flange
- European resistance



704725

Part no.	Size cm
704725	25
704728	28
704732	32
704738	38
704748	48

6 popular gauge styles...



Euro Black



Euro White



Dress White



Chesapeake Black S/S



Chesapeake White S/S



Kronos



## Dip Type Level Senders

- Non-metallic float suitable for water, diesel and petrol (gasoline)
- Stainless steel rod
- Standard five hole mounting flange, supplied with gasket and screws
- Order sender resistance to match gauge resistance
- Suitable for 12V and 24V DC electrical systems
- Cap of sender measures 32mm in height
- Other sizes available, please contact our sales department or visit [www.asap-supplies.com](http://www.asap-supplies.com)

Please note  
Not suitable  
for waste  
tanks.

Sender Length cm	American resistance	European resistance
15	704402	704503
16	-	704505
17	704406	704507
20	704410	704511
21.5	704412	704513
24	-	704515
25	704416	704517
29	704418	704519
35	704424	704525
38.5	704426	-
40	704430	704531
45	704434	704535
50	704440	704541
53	704442	-

Sender length cm	American resistance	European resistance
55	704444	704545
60	704450	704551
65	704454	704555
70	704460	704561
75	704464	704565
80	704470	704571
85	704474	704575
90	704480	704581
95	704484	704585
100	-	704591
110	704494	704595
120	-	704597



704418



727916

### 727916

Gasket for dip level senders  
For ASAP and many other makes of fuel  
level and water level senders with 5 hole  
mounting flange



## Resistance Type Level Senders

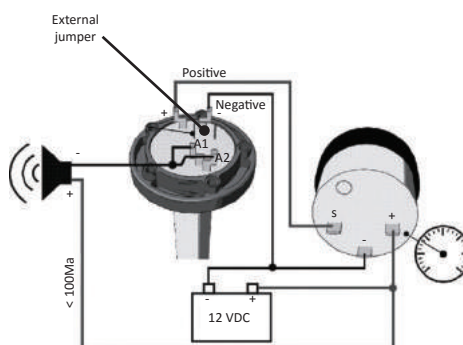
- For use with waste water and fresh water
- No moving parts
- Useful for the choice of working with American resistance (intact jumper) or with European resistance gauges
- Suitable for American and European resistances, just remove jumper to change resistance
- Has two optional alarm outputs, the first activates when the level of liquid contained in the tank is less than 20% (used on fresh water tanks) and the second activates if the level exceeds 80% (used on waste water tanks) of the capacity of the tank
- The maximum current allowed for the alarm output is 100mA each, it is suggested to implement the circuit with a relay
- Standard 5 hole mounting flange
- Supplied with gasket
- Cap of sender measures 57mm in height
- For more information and other sizes, please visit our website [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Size cm
704615	15
704620	20
704625	25
704627	27
704628	28
704630	30
704633	33
704635	35
704636	36
704640	40

Part no.	Size cm
704645	45
704650	50
704655	55
704657	57
704660	60
704665	65
704675	75
704685	85
704695	95



704630



Single Station Resistance Readings			
American	Ohms	European	Ohms
Empty	240	Empty	10
Mid	103	Mid	85
Full	33.5	Full	180



## Oil Pressure Gauges



FAR13803  
Chesapeake White S/S



FAR12926  
Euro White



*It is very important to match the resistance of the gauge and sender, please refer to the list below. For 24V adaptors, please see page 174.*

- Monitors the oil pressure of the engine or the transmission
- Dual scales for PSI and bar
- Available for use with American or European resistance senders
- Use with 12V DC electrical systems, 24V adaptors are shown on page 174
- Back illuminated
- Fits a 52mm (2") diameter hole
- Other styles available see [www.asap-supplies.com](http://www.asap-supplies.com)

Standard (PSI main scale / Bar second scale). Use with American resistance senders		
Style	80 PSI	100 PSI
Euro Black	FAR12803	FAR12845
Euro White	FAR12902	-
Dress White	FAR13102	-
Chesapeake Black S/S	FAR13702	FAR13703
Chesapeake White S/S	FAR13802	FAR13803
Kronos	FAR19002	-

Metric (bar main scale / PSI second scale) Use with European resistance senders			
Style	5 Bar	10 Bar	25 Bar
Euro Black	FAR12805	FAR12807	-
Euro White	-	FAR12926	-
Dress White	FAR13103	-	-
Chesapeake Black S/S	FAR13728	FAR13729	FAR13730
Chesapeake White S/S	FAR13824	FAR13825	FAR13826



## Water Pressure Gauges



FAR12810  
Euro Black

The Faria water pressure gauges connect to your water cooled outboard motor to monitor water pressure. The gauges are supplied with 4.6 metres of tubing which connect to the water-cooling jacket of the engine and then to the back of the gauge.

- Suitable for 12V DC electrical systems, requires bulb change part number FAR90305 for 24V systems
- Back illuminated
- Fits a 52mm (2") diameter hole

Style	0-30 PSI
Euro Black	FAR12810
Euro White	FAR12903
Dress White	FAR13108



## Pressure Senders

All senders are threaded 1/8" NPT Female (thread adaptors shown on page 174) and work on both 12V and 24V DC electrical systems. They are available with the following options:

- Single station - One sender operates one gauge
- Dual station - One sender operates two gauges
- Standard earth - Earth through the sender body. Has one electrical terminal.
- Insulated earth - Earth back to the battery (where earth means ground (G) and is negative). Has two electrical terminals.
- Sender / Switches - Sender / switches are two in one. One terminal is to supply a gauge and the other terminal is a switch for an audio or visual alarm

For low pressure switches, please see Electrical section, page 61.

American Resistance Senders		
Description	Standard earth	Insulated earth
80 PSI Single	FAR90512	FAR90513
80 PSI Dual	FAR90511	-
100 PSI Single	FAR90519	FAR90520
100 PSI Dual	FAR90534	FAR90521

European Resistance Senders		
Description	Standard earth	Insulated earth
5 Bar Single	FAR90515	FAR90516
5 Bar Dual	FAR90517	-
10 Bar Single	FAR90526	FAR90527
25 Bar Single	-	704251

### FAR-SD0053

Sender with built in alarm switch. 100 PSI single, American resistance, warning set at 10 PSI.

Single Station American Resistance Values			
80 PSI senders			
PSI	0	40	80
Ohms	240	103	33.5
100 PSI senders			
PSI	0	50	100
Ohms	240	103	33.5

Single Station European Resistance Values			
5 Bar senders			
Bar	0	2.8	5.5
Ohms	10	95	180
10 Bar senders			
Bar	0	6.2	10.3
Ohms	10	112	180

Dual station senders have half the resistance value of single station senders.

6 popular gauge styles...



Euro Black



Euro White



Dress White



Chesapeake Black S/S



Chesapeake White S/S



Kronos



FAR90521



FAR90515



FAR-SD0053



## Water Temperature Gauges

- For water cooled engines, monitors the coolant temperature
- Available for use with American or European resistance senders
- Use with 12V DC electrical systems (24V adaptors available, see page 174)
- Back illuminated
- Fits a 52mm (2") diameter hole

Please note

It is very important to match the resistance of the gauge and sender, please refer to the list below. For 24V adaptors, please see page 174.

Style	European Scale 40-120°C	American Scale 100-250°F
Euro Black	FAR12814	FAR12812
Euro White	FAR12929	FAR12904
Dress White	FAR13112	FAR13110
Chesapeake Black S/S	FAR13732	FAR13704
Chesapeake White S/S	FAR13828	FAR13804
Kronos	-	FAR19003



FAR13828  
Chesapeake White S/S



FAR13110  
Dress White



## Temperature Senders

All senders work with both 12V and 24V DC electrical systems. Threaded adaptors are also available if required (see page 174).

They are available in the following options:

- Single station - One sender operates **one** gauge
- Dual station - One sender operates **two** gauges
- Standard earth - Earth through the sender body and has **one** electrical terminal.
- Insulated earth - Earth back to the battery (where earth means ground (G) and is negative and has **two** electrical terminals.)
- Sender / switches are two in one. One terminal is to supply a gauge and the other terminal is a switch for an audio or visual alarm



FAR90406



FAR90411



FAR90412



FAR90413



FAR-TS1079

American Resistance Senders		
Male thread NPTF	Standard earth	Insulated earth
1/8" Single	FAR90401	FAR90410
1/8" Dual	FAR90406	-
1/4" Single	FAR90402	-
3/8" Single	FAR90403	-

European Resistance Senders		
Male thread NPTF	Standard earth	Insulated earth
1/8" Single	FAR90412	FAR90413
1/8" Dual	FAR90414	FAR90415

Senders Switches - American Resistance @ 217°F +/-9	
Part no.	NPT
FAR-TS1078	1/2"
FAR-TS1079	3/8"

For DCA temperature switches, please see Electrical section, page 61.

Single Station Resistance Values			
American 100°F -250°F			
°F	100	175	250
Ohms	450	99	29.6

Single Station Resistance Values			
European 40°C -120°C			
°C	40	80	120
Ohms	281	68	22

Dual station senders have half the resistance of single station senders.



## Outboard Temperature Gauges

- Designed specifically to monitor the cylinder head temperature of outboard motors
- Back illuminated
- European resistance, reads 20°C - 100°C
- Each supplied with an easy to fit bolt on sender (FAR90405 below)
- Fits a 52mm (2") diameter hole

Style	Part no
Euro Black	FAR12820
Chesapeake Black S/S	FAR13706
Chesapeake White S/S	FAR13829



FAR13733  
Chesapeake Black S/S

### FAR90405

Faria replacement outboard motor temperature sender.



FAR90405



## Mechanical Water Temperature Gauges

Diaphragm-actuated gauge suitable for monitoring engine coolant water, as well as for industrial and automotive applications. Temperature increase causes the fluid in the sensing bulb to vaporize and apply pressure to the diaphragm. This is converted to mechanical movements to operate the water temperature gauge.



708550

### 708550

Measures from 50°C - 120°C and comes with a 5 metre long capillary. This capillary contains a 5/8 - 18 UNF union nut and is supplied with a 1/2" NPT adaptor nut as standard.



708560

### 708560

Measures from 130°F - 250°F (50°C - 120°C) and comes with a 6 metre long capillary. This capillary contains a 5/8 - 18 UNF union nut and is supplied with a 1/2" NPT adaptor nut as standard.

## Switch Gauge



708670

### 708670

- Built in electrical switch which can be used for triggering alarms or shut down devices.
- Measures from 50°C - 120°C and comes with a 7 metre long capillary
- This capillary contains a 5/8 - 18 UNF union nut and is supplied with a 1/2" NPT adaptor nut as standard.

6 popular gauge styles...



Euro Black



Euro White



Dress White



Chesapeake Black S/S



Chesapeake White S/S



Kronos



## Trim Level Gauges

- Trim gauges are designed to display the trim and / or tilt angle of the outboard motor or outdrive unit
- The signal to operate the trim gauge comes from the OEM sender supplied with the outboard motor or outdrive
- Suitable for 12V DC electrical systems (see page 174 for 24V adaptors)
- Back illuminated
- Fits a 52mm (2") diameter hole
- Visit our website for other trim gauges at [www.asap-supplies.com](http://www.asap-supplies.com)

FAR12828  
Euro BlackFAR19005  
Kronos

Faria Trim Gauge Selection Chart

Trim gauge	Up	Mid	Down	Type
Mercury / Force / Mercruiser	160	38.7	10	A
Johnson / Evinrude outboard	10	44	88	B
Suzuki 4 stroke 1999 (and newer)	2.5	44	88	B
OMC Cobra sterndrive	70	29.5	11	C
Yamaha 2001 (and newer)*	280	150	10	A
Volvo SX Cobra	146	-	11	A
Volvo SX (MD mod)	70	-	3	C
Volvo SX (HU mod, NU mod)	146	-	11	A
Volvo DP (white)**	180	-	10	A
Volvo DP-S (NC Mod)**	146	-	11	A

\* A Mercury trim gauge may be used, 'trim' will be the full range of the gauge.

\*\* Uses 'Black box' for trim signal.

Trim Gauge

Style	Type A	Type B	Type C
Euro Black	FAR12828	FAR12827	FAR12829
Euro White	FAR12916	FAR12915	-
Dress White	FAR13122	FAR13123	-
Chesapeake Black S/S	FAR13707	FAR13709	-
Chesapeake White S/S	FAR13807	FAR13809	FAR13808
Kronos	FAR19005	FAR19006	-



These gauges are designed to operate with the original equipment sender supplied with the outboard motor or with the sterndrive unit.



## Tachometers - Without Hourmeters

- Monitor engine revolutions
- Various range of rev scales
- Use with 12V DC electrical systems, for 24V use an adaptor on page 174
- 4" gauge, fits a 85mm (3.75") diameter hole
- Other tachos available, contact our helpful sales team or visit [www.asap-supplies.com](http://www.asap-supplies.com)

Style	Tacho 0-4000 For alternator / generator signal	Tacho 0-4000 For magnetic flywheel pick-up	Tacho 0-6000 For 4, 6 & 8 cylinder petrol engines	Tacho 0-7000 Universal for outboard motors
Euro Black	FAR32842	FAR32803	FAR32804	FAR32805
Euro White	FAR32942	FAR32903	FAR32904	FAR32905
Dress White	FAR33142	FAR33121	FAR33103	FAR33104
Chesapeake Black S/S	FAR33742	FAR33719	FAR33710	FAR33718
Chesapeake White S/S	FAR33842	FAR33818	FAR33807	FAR33817
Kronos	-	FAR39007	FAR39004	FAR39005



FAR32804  
Euro Black



FAR32905  
Euro White



FAR33104  
Dress White



FAR33710  
Chesapeake Black S/S



## Tachometer Accessories

Part no.	Description
708194	100mf capacitor for Hitachi alternators, stabilises needle movement
FAR90901	Tacho generators sender - Attaches to the mechanical take off. Includes coupling nut and 4 drive keys. To be used with alternator / generator signal tacho.
FAR90303	Adaptor for 24V systems
FAR-SD0047	Magnetic sender for tachometer rev counter. Thread 3/4" x 16 UNF
FAR-HW0197	Connection plug for Faria gauge and sender



FAR90901



FAR-SD0047



## Tachometers - With Hourmeters

- Monitor engine revolutions
- Feature a built in LCD electronic hourmeter
- Various range of rev scales
- Use with 12V DC, for 24V use an adaptor on page 174
- 4" gauge, fits a 85mm (3.75") diameter hole
- Other tachos available, contact our helpful sales team or visit [www.asap-supplies.com](http://www.asap-supplies.com)

Style	Tacho 0-4000 For alternator / generator signal	Tacho 0-4000 For magnetic flywheel pick-up	Tacho 0-6000 For 4, 6 & 8 cylinder petrol engines	Tacho 0-7000 Universal for outboard motors
Euro Black	FAR32834	FAR32841	FAR32832	FAR32840
Euro White	FAR32934	-	-	FAR32940
Dress White	-	-	FAR33132	FAR33140
Chesapeake Black S/S	-	-	FAR33732	-
Chesapeake White S/S	FAR33834	FAR33841	FAR33832	FAR33840
Kronos	-	-	-	FAR39040



FAR33140  
Dress White



FAR33732  
Chesapeake Black S/S

## 5" Tachometers - With Hourmeters

5" gauge fits a 110mm hole, others available at [www.asap-supplies.com](http://www.asap-supplies.com).

Style	Tacho 0-6000 For 4, 6 & 8 cylinder Petrol engines
Euro Black	FAR-TC9182
Chesapeake White S/S	FAR-TC9381



FAR-TC9182  
Euro Black



## GPS Speedometer

These GPS speedometers are a drop in replacement for your current speedometer. GPS information is gathered from an internal GPS antenna so no external antenna is required. These Faria GPS speedometers use a highly accurate 48 channel GPS receiver. You can be sure that a Faria GPS speedometer is giving you the most accurate GPS information available on the market today. Course over ground (COG) and actual heading (compass heading over ground) are displayed on the digital LCD. Speed data is shown by an analogue pointer. The pointer is driven by a digital stepper motor for increased accuracy and minimised pointer bounce during vessel operation.

The Faria GPS speedometer has a speed accuracy of +/- 1 MPH while moving and a hot (normal stand-by) start up time (TTFF - time to first fix) of about 1 second or a TTFF from a cold (no power applied) start up to 30 seconds. Heading accuracy is +/- 1 degree.

- 4" gauge, fits a 85mm (3.75") diameter hole
- Suitable for 12V DC electrical systems
- Suitable for use with GPS signal (internal antenna built into gauge)
- Weather resistance: IP67
- Premium LED back-lit and edge-lit displays
- No external GPS antenna required
- Ultra fast satellite acquisition time (TTFF) 1 second from hot start
- Ideal replacement for speed sensing devices (pitot tube and paddle wheel)
- Perfect for slow moving vessels where pitot tubes typically don't work

Style	Part no
Chesapeake Black S/S	FAR33726
Chesapeake White S/S	FAR33826



FAR33726  
Chesapeake Black S/S



FAR33826  
Chesapeake White S/S

Please  
note

Other styles are available  
without LCD display. Please  
visit [www.asap-supplies.com](http://www.asap-supplies.com)



## Mechanical Pitot Speedometers - MPH

These Faria speedometer gauges are for use with a mechanical pitot tube (order separately). The sensor drops into the water off the back of the boat and receives different levels of pressure depending on the speed the boat is travelling through the water. This pressure equates to a reading in the dashboard mounted speedo.

4" Speedometers				
Style	35 MPH	55 MPH	60 MPH	80 MPH
Euro Black	FAR32808	FAR32810	-	FAR32812
Euro White	-	FAR32909	-	FAR32910
Dress White	-	FAR33112	-	FAR33113
Chesapeake Black S/S	FAR33703	-	FAR33704	FAR33705
Chesapeake White S/S	-	-	FAR33811	FAR33819
Kronos	FAR39008	-	FAR39009	-

5" Speedometers	
Style	60 MPH
Chesapeake White S/S	FAR-SE9504

Other speedometers are available, please contact our helpful sales team or visit [www.asap-supplies.com](http://www.asap-supplies.com).



FAR32909  
Euro White



FAR33811  
Chesapeake White S/S



## Mechanical Pitot Speedometers - Knots

Speedometers (Knots)		
Style	30 Knot	50 Knot
Euro Black	FAR32809	FAR32811
Chesapeake White S/S	FAR33821	FAR33822

Other speedometers are available, please contact our helpful sales team or visit [www.asap-supplies.com](http://www.asap-supplies.com).



FAR32809  
Euro Black

6 popular gauge styles...



Euro Black



Euro White



Dress White



Chesapeake Black S/S



Chesapeake White S/S



Kronos



## Pitot Kits

Part no.	Description
<b>FAR91109</b>	Universal pitot kit transom mount pick-up
<b>FAR91106</b>	As FAR91109 but with 6.10 metre (20ft) of tubing
<b>FAR91105</b>	Escutcheon cover plate for pitot tube
<b>FAR-TP-1003</b>	20ft of pitot tubing



FAR91109



FAR91106



## Quartz Analogue Clocks

- For use with 12V DC electrical systems, for 24V order kit FAR90306
- Fits a 52mm (2") diameter hole

Style	Part no
Euro Black	<b>FAR12825</b>
Euro White	<b>FAR12923</b>
Chesapeake Black S/S	<b>FAR13791</b>
Chesapeake White S/S	<b>FAR13891</b>



FAR12923  
Euro Black



## Rudder Angle Indicator Gauges

- Displays the position of the rudder(s)
- Scale: port / centre / starboard
- For use with 12V DC electrical systems, for 24V use adaptor **FAR90315**
- Resistance values port: 10 ohms, starboard: 180 ohms
- Fits a 52mm (2") diameter hole

Style	Part no
Euro Black	<b>FAR12833</b>
Euro White	<b>FAR12931</b>
Chesapeake Black S/S	<b>FAR13725</b>
Chesapeake White S/S	<b>FAR13822</b>



FAR13725  
Chesapeake SS Black

### FAR90315

Faria 90315 voltage dropper for rudder angle indicator (24V - 12V)



FAR90315

### Sender rudder angle indication

Faria sender rudder indicators, supplied with a connection bar.

Part no.	Description
<b>FAR90530</b>	Single station
<b>FAR90531</b>	Dual station



FAR90531

Need project help or technical advice? Call our trusted and reliable team today on 01502 716993



## Combination Gauges

Faria offers you the ability to monitor 4 functions in one compact instrument.

### 4" 4 in 1 combination gauges monitor:

- Fuel level (empty – full)
- Oil pressure (0-80 PSI)
- Water temperature (120°–220°F)
- Volts (10-18)
- Unique stylish and space saving
- Suitable for 12V DC electrical systems only
- 4" gauge, fits an 85mm (3.375") diameter hole



*Only suitable with US resistance senders*



FAR32951  
Euro White



FAR33751  
Chesapeake Black S/S

Style	Part no
Euro Black	FAR32851
Euro White	FAR32951
Dress White	FAR33151
Chesapeake Black S/S	FAR33751
Chesapeake White S/S	FAR33851



## Mechanical Gauges

For those who still prefer a traditional gauge, we offer a range of mechanical pressure and temperature gauges.

- Features a stainless steel or black bezel
- No illumination
- Fits a 52mm (2") diameter hole



FAR-OP3102



FAR-OP3103



708937



303823

Part no.	Descriptions
FAR-OP3102	Oil gauge 100 PSI mechanical stainless steel bezel
FAR-OP3103	Oil gauge 100 PSI mechanical black bezel

Accessories For Mechanical Pressure Gauges	
Part no.	Descriptions
708937	Gauge fitting for 1/4" copper
303823	Olive to convert to 1/4" nylon (Pack of 5)

Accessories For Mechanical Temperature Gauges	
Part no.	Descriptions
708951	Probe fitting for 5/8" x 18 UNF
708953	Probe fitting for 3/8" BSP
708955	Probe fitting for 1/2" BSP
708958	Probe fitting for M18 x 1.5



## Mechanical Oil Pressure Switch Gauges

Diaphragm-actuated gauge suitable for monitoring transmission oil and crankcase oil, as well as for industrial and automotive applications.

Murphy Switchgages have a built in electrical switch which can be used for triggering alarms or shut down devices. The pressure indicating needle acts as one switch pole which completes the circuit when it touches the level set by the adjustable contact.

- Fits a 52mm diameter hole
- For 6mm panel thickness



708350

Part no.	PSI
708350	75
708360	100

6 popular gauge styles...



Euro Black



Euro White



Dress White



Chesapeake Black S/S



Chesapeake White S/S



Kronos



## Depth Sounders and Senders

Depth sounders from Faria feature the latest microprocessor technology and proprietary software to outperform all other depth sounders on the market. With their high speed capabilities and accuracy when faced with various bottom conditions, Faria depth sounders are capable of reading and displaying depths up to 61 metres (199ft). They feature an oversized backlit LCD digital display and automatic gain control.

The clear and easy-to-read icons make Faria depth sounders accessible in any condition. A programmable keel offset allows adjustment of the keel at the display. Visual and audible alarms let the user know when a shallow or deep water condition exist. For 12V DC electrical systems only.



Style	Transom mounted sender	In hull sender. No cut-out required. GRP hulls only.	Through hull sender
Euro Black	FAR12850	FAR12851	FAR12894
Euro White	FAR12950	FAR12951	FAR12994
Dress White	FAR13150	FAR13151	-
Chesapeake Black S/S	FAR13750	FAR13751	FAR13795
Chesapeake White S/S	FAR13850	FAR13851	FAR13894
Kronos	FAR19150	FAR19151	-



FAR12950  
Euro White



FAR12851  
Euro Black



## Depth Sounders With Temperature

Now get all the benefits of their usual depth sounders plus the added luxury of a built-in temperature gauge to show air and water temperature.

- Currently available in the following styles
- For use with 12V DC electrical systems only
- Supplied with transom mount sender
- Backlit LCD display
- Depth range to 61 metres (199ft)
- Fits a 52mm (2") diameter hole

Style	Part no
Chesapeake Black S/S	FAR13752
Chesapeake White S/S	FAR13852



FAR13752  
Chesapeake Black S/S



## Accessories For Depth Sounders



FAR-SN0007

Spare Senders	
Part no.	Description
FAR-SN0007	Speedometer sender transom mounted
FAR-SN2010	In hull sender for GRP hulls only
FAR-SN2011	Transom mounted sender
FAR-SN0060	Through hull mount sender



### 712001

Special 2 core shielded cable sold per metre. For use with Faria speedos, depth sounders and compasses to extend the looms that come with the kits.



### FAR-HW0197

Connection plug that connects the depth sounder sender wire to the Faria Beede depth sounder head.



## Spin-On Back Clamps



FAR-BC1143

As an optional extra, you can purchase this spin-on clamp to assist in the installation of your chosen gauge. The unique 'twist-and-lock' clamp design attaches onto the outer case of the instrument and tightens firmly against the back of the instrument panel – by hand.

Part no.	Gauge size inches	Cut out mm
FAR-BC1143	4"	85



## Coloured Bulbs and Light Covers



FAR-LM0037



FAR90802

Part no.	Colour tint
FAR-LM0037	Red bulb
FAR90802	White bulb

Use bulb covers to fit over the instrument bulb.

Covers for bulbs	
FAR90807	Blue cover
FAR90808	Green cover
FAR90809	Red cover



FAR90808 FAR90809



## Dropping Resistors



FAR90310

Part no.	Droppers compatible with any style
FAR90303	Tachometers and synchronisers
FAR90304	Speedometers bulb
FAR90305	Ammeters and water pressure gauges bulb
FAR90306	Clocks

Part no.	Droppers for the following styles: Euro, chesapeake and dress white
FAR90310	Water temperature, type A trim gauge
FAR90312	Cylinder head temperature
FAR90313	Type C trim gauges
FAR90314	American fuel and water levels type B and D trim and US pressure
FAR90315	European pressure, tank level gauges and rudder angle

\* To be used with oil senders only.



## Compasses



635010



635040



635062

Part no.	Mount	Voltage DC	Dial dimensions
635010	Bracket	12	2"
635040	Flush	12	2-1/4"
635060	Bracket	12	2-3/4"
635062	Bracket	12	2-3/4"
635075	Bulkhead	12	2-3/4"
635086	Flush	12	3"
635088	Flush	12	3"
635110	Flush	12	3-3/4"
635150	Bulkhead	12	3-3/4"
635170	Flush	12	4-1/2"
635200	Flush	12	3-3/4"
635230	Handheld	-	2"



## Compasses

Part no.	Mount	Dial dimensions	Height mm	Length mm
635801	Bracket	2"	74	64
635802	Bracket	2"	74	64
635805	Bracket	2-5/8"	126	92
635806	Bracket	2-5/8"	126	92
635809	Surface / top	2-5/8"	73	97
635811	Surface / top	2-5/8"	73	97



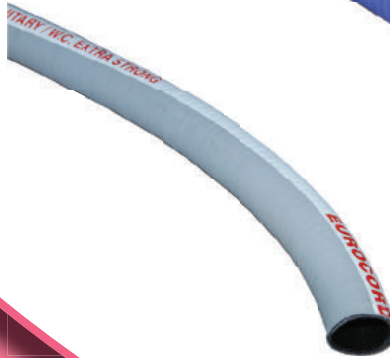
635802



635805



635811



# HOSE

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182-183  
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180-181  
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Bilge Pump Hose  
Clamp Aids  
Copper Saddles  
Copper Tubing  
Drinking Water Hose  
Ducting Hose  
Exhaust Hose  
Food Quality Plumbing Hose  
Fuel Hose  
Gas Hose  
Hose Clips & Clamps  
Hot Water Hose  
Layflat Water Transfer Hose  
Multi-Purpose Hose  
Nylon Piping  
P Clips  
Pipe Repair Kits  
Plumbing Hose  
Sanitation Hose  
Silicone Hose  
Steering Hose  
Waste Water Hose  
Water Intake Hose

**SEAFLOW** Superflex Marine Exhaust Hose

- Suitable for wet exhaust systems only
- Not only tough, but also extremely flexible to help make the installation as easy as possible
- Approved to R.I.N.A. and Lloyd's register specification
- Black corrugated cover is resistant to abrasion, oils and marine agents
- Self-extinguishing CB / NBR rubber
- The reinforcement is by double wire helix and textile plies
- Inside is finished smooth NBR rubber
- Temperature range: -30°C to +100°C
- Working pressure: 43.5 PSI (3 bar)
- Burst pressure: 130 PSI (9 bar)
- Available in coils or per metre cut from a coil



412591



Use this to work out how much water is in your exhaust hose when engine is running. We advise at the very maximum, you should have 50% water in the hose.  $\text{Inner radius (cm)} \times \text{inner radius (cm)} \times \text{length (cm)} \times \text{Pi (3.14159)}$ , divided by 2, divided by 1000 = capacity (litres) of water in exhaust hose when engine is running.

Per metre	Per 10 metre coil	Per 20 metre coil	I.D. mm (inch)	O.D. mm	Bend radius mm	Stainless steel 316 superclamp to suit
412519	-	412519-20	20 (13/16")	29	80	416804
412525	-	412525-20	25 (1")	34	100	416805
412530	-	412530-20	30 (1-3/16")	38	120	416806
412532	412532-10	412532-20	32 (1-1/4")	40	130	416807
412538	412538-10	412538-20	38 (1-1/2")	46	150	416808
412540	412540-10	412540-20	40 (1-9/16")	48	160	416809
412545	412545-10	412545-20	45 (1-3/4")	53	180	416810
412551	412551-10	412551-20	51 (2")	60	200	416811
412555	412555-10	412555-20	55 (2-1/6")	65	220	416813
412560	412560-10	412560-20	60 (2-3/8")	70	240	416814
412563	412563-10	412563-20	63 (2-1/2")	74	250	416815
412570	412570-10	412570-20	70 (2-3/4")	80	280	416816
412576	412576-10	412576-20	76 (3")	86	300	416816
412589	412589-10	412589-20	89 (3-1/2")	102	360	416819
412591	412591-10	412591-20	102 (4")	114	400	416821
412592	412592-10	-	110 (4-3/8")	122	440	416822
412593	412593-10	412593-20	127 (5")	139	500	416823
412594	412594-10	-	114 (4-1/2")	126	460	416822
412595	412595-10	-	152 (6")	165	825	416826
412597	412597-10	-	203 (8")	219	1200	416830

**SEAFLOW** Bilge Pump Hose

- Very flexible to fit awkward installations and allow for bends in the line
- Ideal for installations with submersible bilge pumps
- Suitable for transferring bilge water, as well as the debris that comes with it
- Made from a soft PVC dark grey cover with a hard PVC inner spiral, making it shock resistant
- Inside wall is smooth despite the reinforcement
- Temperature range: -15°C to +65°C
- Available in coils or per metre cut from a coil



504528

Per metre	30 metre coil	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
504519	504519-30	19 (3/4")	25	28	1 (14.5)	3 (43.5)	416204
504525	504525-30	25 (1")	30	35	1 (14.5)	3 (43.5)	416206
504528	504528-30	28 (1-1/8")	31	40	1 (14.5)	3 (43.5)	416207
504532	504532-30	32 (1-1/4")	38	45	0.5 (7.25)	1.5 (21.75)	416207
504538	504538-30	38 (1-1/2")	44	50	0.5 (7.25)	1.5 (21.75)	416208

**SEAFLOW** Steering Hose

- Seaflow SAE100 R7 black thermoplastic hydraulic steering hose is suitable for the delivery of hydraulic oils at high pressure
- Sold per metre



603508

Part no.	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Burst pressure bar (psi)
603508	8 (5/16")	14	50	190 (2755)	780 (11,312)



603511



603512

**Reusable End Fittings**

Hose end fittings with end spigot, designed for use in marine hydraulic steering systems.

Part no.	Size mm	Type
603511	10	Straight
603512	10	90°

## SEAFLOW Ducting Hose

### For Air Heaters

- Wire reinforced black thermoplastic ducting hose
- Suitable for use with Hotpot air heaters and many other applications
- Sold per full 10 metre coil

10 metre coil	I.D. mm (inch)	O.D. mm	Temperature range °C	Stainless steel 316 hose clip to suit
722150	55 (2-1/4")	60	-20 to +75°C	416211
722190	90 (3-1/2")	98	-10 to +75°C	416216



722150

### For Engine Room Blowers

- Flexible PVC coated glass fibre ducting hose with built-in steel spiral
- Suitable for heating and ventilation systems
- Brilliant resistance at both high and low temperatures
- Very flexible making it ideal for use in bilges, engine compartments, galleys and head installations
- Available in coils or per metre

Per metre	10 metre coil	I.D. mm (inch)	O.D. mm	Temperature range °C	Stainless steel 316 hose clip to suit
716876	716876-10	76 (3")	80	-20 to +70°C	416214
-	716891	100 (4")	105	-10 to +70°C	416216



716876

## SEAFLOW Premium Hot Water Hose

- Suitable for the delivery of hot water mixed with steam and non-corrosive hot liquids
- Ideal for use as engine coolant hose
- Temperature range: -40°C to +125°C
- Available in coils or per metre cut from a coil

Per metre	Per coil -40 = 40 metres -20 = 20 metres	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
206410	206410-40	10 (3/8")	20	100	10 (145)	30 (435)	416202
206413	206413-40	13 (1/2")	22	120	10 (145)	30 (435)	416204
206416	206416-40	16 (5/8")	25	150	10 (145)	30 (435)	416204
206419	206419-40	19 (3/4")	28	180	10 (145)	30 (435)	416205
206422	206422-40	22 (7/8")	32	220	10 (145)	30 (435)	416206
206425	206425-40	25 (1")	35	250	10 (145)	30 (435)	416206
206428	206428-40	28 (1-1/8")	41	300	10 (145)	30 (435)	416207
206432	206432-40	32 (1-1/4")	45	320	10 (145)	30 (435)	416208
206435	206435-20	35 (1-3/8")	48	350	10 (145)	30 (435)	416209
206438	206438-20	38 (1-1/2")	54	400	10 (145)	30 (435)	416210
206445	206445-20	45 (1-3/4")	61	450	10 (145)	30 (435)	416212
206450	206450-20	50 (2")	68	510	10 (145)	30 (435)	416212



206425

## SEAFLOW Hot Water Hose

- Seaflow hot water (radiator) hose for the delivery of air, hot water and engine coolant
- Rated to ISO 1307
- Typical applications include: engine coolant to the expansion tank
- Temperature range: -30°C to +100°C with maximum peaks of up to 120°C
- Sold per metre

Part no.	I.D. mm (inch)	O.D. mm	Working pressure bar (psi)	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
206058	8 (5/16")	15	10 (145)	30 (435)	416201

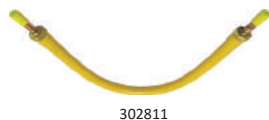


206058

## Fuel Hose

Our range of Seaflow approved fuel hose is designed to carry all types of fuel. All fuel hose in our range is manufactured to ISO 7840 standard and is suitable for diesel, biodiesel and unleaded petrol applications. We offer pre-made fuel hose with spigots sold in various lengths, as well as off the coil Seaflow hose sold per metre. The standard fuel delivery hose offers strong reinforced rubber construction, whereas the Superflex hose (see below) gives this and the added benefit of extreme flexibility to adapt to fit in tight demanding spaces.

### SEAFLOW Pre-made Fuel Hose



- Specially developed to meet the stringent standards laid out in ISO 7840, and the Recreational Craft Directive
- Fire resistant and fully meets the standards and requirements, and in some cases exceeds them
- Pressure tested to 1500psi (103 bar)
- Features spigot hose ends
- Special nitrile rubber construction which has an inner metal support
- Spigots on the end are heavy copper and swaged in brass, featuring a hexagonal collar for securing to a compression fitting

Spigot size 1/4" O.D.	Spigot size 5/16" O.D.	Spigot size 3/8" O.D.	Hose length (inch)	Burst pressure PSI (bar)	Fire test performance at 750°C Seconds	Fuel permeation m³h
302811	302821	302831	12"	1800-2500 (124-172)	205-220	1.23-1.95
302813	302823	302833	18"	1800-2500 (124-172)	205-220	1.23-1.95
302814	302824	302834	24"	1800-2500 (124-172)	205-220	1.23-1.95
302815	302825	302835	30"	1800-2500 (124-172)	205-220	1.23-1.95
302816	302826	302836	36"	1800-2500 (124-172)	205-220	1.23-1.95
302817	302827	302837	42"	1800-2500 (124-172)	205-220	1.23-1.95

### SEAFLOW A1 Fuel Hose



- Seaflow marine fuel delivery hose suitable for diesel, biodiesel and unleaded fuel
- Can be used in fuel supply and return lines, fuel tank vents and fuel tank filling, as well as other applications that are in fire risk areas
- Approved to R.I.N.A. and Lloyd's register specification
- Specifically manufactured to meet ISO 7840 requirements, meaning it is fire resistant for at least 2 minutes
- Features a textile reinforced black, synthetic rubber cover, which is resistant to abrasions, weather, heat and oil
- The inner tube is also a synthetic rubber which encloses up to 50% of fuel odours
- Temperature range: -35°C to +80°C
- Sold per metre, in 10 metre coils or 40 metre coils



Per metre	10 metre coil	40 metre coil	I.D. mm (inch)	O.D. mm	Bend radius mm	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
305906	305906-10	305906-40	6 (1/4")	16	60	14 (203)	416202v
305908	305908-10	305908-40	8 (5/16")	17	80	14 (203)	416202
305910	305910-10	305910-40	10 (3/8")	19	100	14 (203)	416203
305913	305913-10	305913-40	13 (1/2")	22	120	10 (145)	416204
305916	305916-10	305916-40	16 (5/8")	26	160	10 (145)	416205
305919	305919-10	305919-40	19 (3/4")	30	190	10 (145)	416206

### SEAFLOW Superflex Fuel Hose



- Seaflow Superflex marine fuel transfer hose suitable for diesel, biodiesel and unleaded fuel
- Can be used in fuel supply and return lines, fuel tank vents and fuel tank filling, as well as other applications that are in fire risk areas
- Specifically manufactured to meet ISO 7840 requirements, meaning it is fire resistant for at least 2 minutes
- Features a textile and steel wire reinforced black, synthetic rubber cover, which is resistant to abrasions, weather, heat and oil
- Inner tube is also a synthetic rubber which encloses up to 50% of fuel odours
- Extremely flexible and light, allowing for ease of installation
- Temperature range: -35°C to +80°C
- Sold per metre or 20 metre coil



Per metre	20 metre coil	I.D. mm (inch)	O.D. mm	Working pressure bar (psi)	Burst pressure bar (psi)	Vacuum bar (psi)	Bend radius mm	Stainless steel 316 superclamp to suit
305825	305825-20	25 (1")	37	2.5 (36)	10 (145)	0.35 (5)	125	416805
305832	305832-20	32 (1-1/4")	44	2.5 (36)	10 (145)	0.8 (11)	160	416807
305838	305838-20	38 (1-1/2")	50	2.5 (36)	10 (145)	0.8 (11)	190	416809
305851	305851-20	51 (2")	64	2.5 (36)	10 (145)	0.8 (11)	254	416812

## Swaged Oil Pipes

Swaged pipes for oil coolers with pre fitted end connections. See the Hydraulics section, page 189 for more information.



## Hydraulic Hoses

We now offer made to order, high quality, bespoke Parker hydraulic hose. See Hydraulic section for more information, page 189. Or visit [www.asap-supplies.com](http://www.asap-supplies.com)



## Gas Hose

- Seaflow orange coloured rubber gas hose designed for the marine market
- BS 3212 (type 2) RCD approved and BSS approved up to 1 metre
- Designed to not exceed 17.5 bar of pressure
- Sold per metre

Part no.	I.D. mm (inch)	O.D. mm	Stainless steel 316 hose clip to suit
307308	8	15	416201
307310	10	17	416202



307308

## Pre-made Gas Hose

- Seaflow orange coloured rubber gas hose designed for the marine market
- BS 3212 (type 2) RCD approved and BSS approved up to 1 metre
- Designed to not exceed 17.5 bar of pressure
- Sold pre-made with copper spigots held by swaged stainless steel ferrules

Spigot size 1/4" O.D.	Spigot size 5/16" O.D.	Spigot size 3/8" O.D.	Length
307418	307518	307618	18"
307424	307524	307624	24"
-	307530	307630	30"
307436	307536	307636	36"



307436

## Multi-Purpose Hose

- Suitable for many different types of fluid transfer (excluding fuels) such as transportation of water and liquid foods which do not contain fats and with a maximum alcohol content of 28%
- Quality spiral reinforced construction of the Seaflow multi-purpose hose helps reduce the chance of the hose collapsing
- Suitable for Black transparent with white shock resistant PVC spiral
- Temperature range: -5°C to +60°C
- Sold per coil or per metre cut from a coil

Per metre	50 metre coil	I.D. mm (inch)	O.D. mm	Stainless steel 316 hose clip to suit
412419	412419-50	19 (3/4")	24	416204
412425	412425-50	25 (1")	31	416206
412432	412432-50	32 (1-1/4")	38	416207
412438	412438-50	38 (1-1/2")	45	416209
412451	412451-50	51 (2")	59	416211



412438

## Heavy Duty Layflat Water Transfer Hose

- Made from dark blue PVC plastic
- Extremely flexible and very strong, meaning it is highly resistant to abrasion marks and signs of ageing
- Inside of the hose is smooth to reduce friction drag on the hose contents
- Capable of transferring water or other low pressure liquids and slurries
- Typical applications for this hose can include a water delivery hose for a deck wash system or use as emergency delivery hose
- When not in use it can be coiled flat to save space and fit in small areas
- When water is delivered the pressure will open up the hose to perform its required job
- Temperature range: -5°C to +60°C
- Sold per coil or per metre, cut from a coil
- Other sizes available, please contact us or visit our website [www.asap-supplies.com](http://www.asap-supplies.com)

Per metre	100 metre coil	I.D. mm (inch)	O.D. mm	Working pressure bar (psi)	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
512925	512925-100	25 (1")	29	12 (174)	35 (507.5)	416205
512932	512932-100	32 (1-1/4")	36	10 (145)	30 (435)	416207
512938	512938-100	38 (1-1/2")	42	10 (145)	25 (362.5)	416208
512945	512945-100	45 (1-3/4")	50	10 (145)	25 (362.5)	416209
512950	512950-100	50 (2")	55	9 (130.5)	25 (362.5)	416210



512925

## SEAFLOW Fire Retardant Water Intake Hose

- Suitable for the delivery and suction of hot or cold water
- Designed with marine engine water intake in mind but can also be connected as a flexible hose on heat pumps and surge tanks
- This heavy duty hose is constructed with steel wire reinforced man-made fibres to ensure it can perform well in harsh conditions and to help avoid hose kinking / collapse
- Conforms to ISO 13363
- Flame retardant to reduce the risk of failure in the event of an engine room fire
- Temperature range: -30°C to +100°C
- Sold per coil or per metre, cut from a coil



412338

Per metre	Per 20 metre coil	I.D. mm (inch)	O.D. mm	Working pressure bar (psi)	Burst pressure bar (psi)	Vacuum bar (psi)	Bend radius mm	Stainless steel 316 superclamp to suit
412319	412319-20	19 (3/4")	29	3 (43.5)	9 (130.5)	0.3 (4.35)	80	416804
412325	412325-20	25 (1")	35	3 (43.5)	9 (130.5)	0.3 (4.35)	100	416806
412332	412332-20	32 (1-1/4")	41	3 (43.5)	9 (130.5)	0.3 (4.35)	130	416807
412338	412338-20	38 (1-1/2")	49	3 (43.5)	9 (130.5)	0.3 (4.35)	150	416809
412345	412345-20	44 (1-3/4")	55	3 (43.5)	9 (130.5)	0.3 (4.35)	180	416811
412351	412351-20	51 (2")	63	3 (43.5)	9 (130.5)	0.3 (4.35)	200	416813

## SEAFLOW Clear Reinforced Water Intake Hose

- Suitable for use in water intakes and transfer
- Transparent construction which allows for a visual inspection of the water flow
- Reinforced PVC hose has a built in steel spiral preventing collapse when under stress
- Not suitable for use with fuels or oils
- Temperature range: -25°C to +60°C
- Sold per coil or per metre, cut from a coil



412619

Per metre	30 metre coil	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Vacuum bar (psi)	Stainless steel 316 hose clip to suit
412613	412613-30	13 (1/2")	18	25	7 (101.5)	0.85 (12)	416202
412616	412616-30	16 (5/8")	22	35	6 (87)	0.85 (12)	416203
412619	412619-30	19 (3/4")	26	40	5 (72.5)	0.85 (12)	416205
412625	412625-30	25 (1")	31	60	5 (72.5)	0.85 (12)	416206
412632	412632-30	32 (1-1/4")	40	75	4 (58)	0.85 (12)	416207
412638	412638-30	38 (1-1/2")	46	90	4 (58)	0.85 (12)	416209
412645	412645-30	45 (1-3/4")	55	105	3 (43.5)	0.80 (11)	416210
412651	412651-30	51 (2")	60	125	3 (43.5)	0.80 (11)	416211

## SEAFLOW Butyl Sanitation Hose

- Designed to lead the market as sewage pipe for marine toilets
- Butyl inner prevents odour permeating into the boat
- Extremely flexible
- Meets EU standard: ISO 8099:2000
- Temperature range: -40°C to +120°C
- Sold per coil or per metre, cut from a coil



507819

Per metre	Per coil -40 = 40 metres -20 = 20 metres	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Burst pressure bar (psi)	Vacuum bar (psi)	Stainless steel 316 hose clip to suit
507819	507819-40	19 (3/4")	29	60	5 (72.5)	15 (217)	0.8 (11.5)	416205
507825	507825-40	25 (1")	33	80	5 (72.5)	15 (217)	0.8 (11.5)	416206
507838	507838-40	38 (1-1/2")	48	120	5 (72.5)	15 (217)	0.8 (11.5)	416209
507851	507851-20	51 (2")	59	175	5 (72.5)	15 (217)	0.8 (11.5)	416212

## vetus Waste Water Hose

- Outside of the hose is reinforced corrugated PVC with a built in steel spiral
- Temperature range: -5°C to +60°C
- Sold per metre



507045

Per metre	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Vacuum bar (psi)	Stainless steel 316 hose clip to suit
507045	45 (1-3/4")	55	105	3 (43.5)	8 (116)	416210

## SEAFLOW Waste Water Hose

- Suitable for use with all waste water marine applications including toilet installation
- Specially designed to prevent smells from permeating through the hose
- Outside of the hose is reinforced with a built in steel spiral, ensuring strength and reliability of the hose yet allowing for maximum flexibility
- Temperature range: -25°C to +60°C
- Sold per coil or per metre, cut from a coil

Per metre	30 metre coil	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Vacuum bar (psi)	Stainless steel 316 hose clip to suit
507016	507016-30	16 (5/8")	22	35	6 (87)	0.85 (12)	416203
507019	507019-30	19 (3/4")	26	50	5 (72.5)	0.85 (12)	416205
507025	507025-30	25 (1")	31	60	5 (72.5)	0.85 (12)	416206
507032	507032-30	32 (1-1/4")	40	75	4 (58)	0.85 (12)	416207
507038	507038-30	38 (1-1/2")	47	90	4 (58)	0.85 (12)	416209



507019

## SEAFLOW Drinking Water Hose

Suitable as a drinking water transfer hose on board boats, caravans and other similar applications.

- Suitable for delivery of drinking water, fruit juices and other liquids up to 15% alcohol content
- Food grade which leaves no taste or odour in compliance with European Regulation 2007/19/EC
- Recommended for use with our range of Hotpot domestic water systems
- Strong and flexible
- Constructed from non-toxic plasticised yellow PVC
- Shock resistant PVC spiral to protect it from crushing, abrasions and weather
- R.I.N.A approved
- Temperature range: -5°C to +60°C
- Sold per 50 metre coil or cut and sold per metre

Per metre	50 metre coil	I.D. mm (inch)	O.D. mm	Stainless steel 316 hose clip to suit
412738	412738-50	38 (1-1/2")	45	416219
412751	412751-50	51 (2")	58	416211

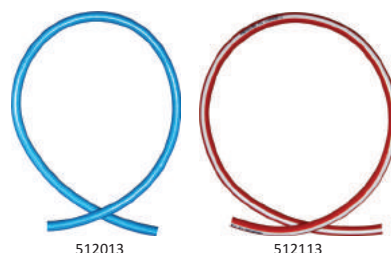


412738

## SEAFLOW Food Quality Plumbing Hose

- Suitable for delivery of drinking water
- Features a non-toxic coating
- The outer colour is useful for denoting the temperature of the hose contents, blue meaning cold, red meaning hot
- Recommended for use with our range of Hotpot domestic water systems
- Sold per 50 metre coil or cut and sold per metre

Per metre	50 metre coil	I.D. mm (inch)	O.D. mm	Colour	Stainless steel 316 hose clip to suit
512013	512013-50	13 (1/2")	20	Blue	416203
512113	512113-50	13 (1/2")	20	Red	416203



512013

512113

## SEAFLOW Clear Reinforced Plumbing Hose

- Suitable for use in food and beverage dispensing as well as deionised and potable water
- This hose is food grade which leaves no taste or odour in compliance with European Regulation 2007/19/EC
- Crystal clear construction allows for visible checks of the liquid carried
- Temperature range: -5°C to +60°C
- Sold per coil or per metre, cut from a coil

Per metre	Per coil -100 = 100 metres -50 = 50 metres	I.D. mm (inch)	O.D. mm	Working pressure bar (psi)	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
510309	510309-100	9.5 (3/8")	16	15 (217.5)	45 (652.5)	416201
510313	510313-100	13 (1/2")	19	10 (145)	30 (435)	416202
510316	510316-50	16 (5/8")	22	10 (145)	30 (435)	416203
510319	510319-50	19 (3/4")	26	10 (145)	30 (435)	416205
510325	510325-50	25 (1")	33	8 (116)	24 (348)	416206



510319

## Silicone Hose

Seaflow's range of silicone rubber hose has been specifically developed for use in coolant, heating and turbocharger systems. Silicone hose is specifically designed for carrying water and anti-freeze and also has good resistance to oil splashing, although it is not generally intended to transfer oils or fuels.

Combining this with high performance materials and construction, as well as hose flexibility, the Seaflow range of silicone hose is an ideal and reliable replacement for engine coolant and heater hose. It is also suitable for use as a flexible joint between rigid pipes or anywhere where the silicone construction is more beneficial to rubber. Silicone hose lengths are made from plied silicone which have been reinforced with polyester, making it extra strong. It is highly resistant to oxygen, water, sunlight and UV radiation, and also offers excellent resistance to compression. The hose has high electrical insulation qualities and is also very reliable working in extreme low and extreme high temperatures. These properties make silicone hose compliant to SAE J20 R1 (Class A), meaning it is perfect for use in the marine industry. Temperature range: -50°C to +180°C. Other sizes available, please see our website [www.asap-supplies.com](http://www.asap-supplies.com).

### SEAFLOW Silicone Elbows



206355



206301



206507

45°	90°	180°	I.D. mm (Inch)	O.D. mm	Wall thickness mm	Leg length mm	Stainless steel 316 hose clip to suit
206350	206300	-	10 (3/8")	18	4	102	416202
206351	206301	-	13 (1/2")	21	4	102	416203
206352	206302	-	16 (5/8")	24	4	102	416204
206353	206303	-	19 (3/4")	27	4	152	416205
206354	206304	-	22 (7/8")	31	4.5	152	416206
206355	206305	206505	25 (1")	34	4.5	152	416206
206356	206306	-	28 (1-1/8")	37	4.5	152	416207
206357	206307	206507	32 (1-1/4")	41	4.5	152	416208
206359	206309	206509	38 (1-1/2")	47	4.5	152	416209
206360	206310	-	41 (1-5/8")	50	4.5	152	416209
206361	206311	-	45 (1-3/4")	54	4.5	152	416210
-	206312	-	48 (1-7/8")	57	4.5	152	416211
206363	206313	206513	51 (2")	60	4.5	152	416211
206364	206314	-	57 (2-1/4")	66	5	152	416212
206365	206315	206515	60 (2-1/3")	70	5.5	152	416212
206366	206316	-	63 (2-1/2")	73	5	152	416213
206368	206318	-	70 (2-3/4")	80	5	152	416214
206369	206319	-	76 (3")	86	5	152	416214
206371	206321	-	89 (3-1/2")	99	5.5	152	416215
206373	206323	-	102 (4")	112	5.5	152	416216

### SEAFLOW Straight Silicone Reducers

Suitable for altering or adapting hose size in pipework.



206606

Part no.	I.D. mm	O.D. mm	Length mm	Stainless steel 316 hose clip to suit
206605	25-19	34-27	102	416206 / 416205
206606	28-25	37-34	67	416207 / 416206
206607	32-25	41-34	102	416208 / 416207
206608	38-25	47-34	102	416209 / 416207
206609	38-32	47-41	102	416209 / 416207
206610	45-38	54-47	89	416210
206611	48-38	57-47	102	416210 / 416209
206613	51-38	60-47	102	416210 / 416209
206614	51-45	60-54	102	416211

### SEAFLOW 90° Silicone Reducers

Suitable for altering or adapting hose size in pipework.



206705

Part no.	I.D. mm	O.D. mm	Stainless steel 316 hose clip to suit
206704	19-16	27-24	416204 / 416205
206705	30-22	39-31	416208 / 416206
206707	32-25	41-34	416208 / 416206
206709	38-32	47-41	416209 / 416208
206710	45-32	54-41	416210 / 416208
206711	45-38	54-47	416211 / 416209
206714	51-45	60-54	416211 / 416210

### SEAFLOW Specially Shaped Silicone Hose



206712



206716



206718



206725



206727

Part no.	Description	Stainless steel 316 hose clip to suit
206712	32mm 90° 13mm calorifier outlet	416203 / 416209
206716	90° for Thornycroft 90 4900 pump outlet	416206
206718	90° kinked for Ford 2720 heat exchanger	416210
206725	Low line for manifold to exhaust outlet	416206
206727	Exhaust outlet feed 32mm I.D.	416207

## SEAFLUX Straight Silicone Hose

Blue 1 metre length	Blue 3 metre length	Red 1 metre length	I.D. mm	O.D. mm	Stainless steel 316 hose clip to suit
206100	206800	223100	10	18	416202
206101	206801	223101	13	21	416203
206102	206802	223102	16	24	416205
206103	206803	223103	19	27	416205
206104	206804	223104	22	31	416206
206105	206805	223105	25	34	416207
206106	206806	223106	28	37	416207
206107	206807	223107	32	41	416208
206108	206808	223108	35	43	416208
206109	206809	223109	38	47	416209
206110	206810	223110	41	50	416210
206111	206811	223111	45	54	416211
206112	206812	223112	48	57	416211
206113	206813	223113	51	60	416212
206114	206814	223114	57	66	416212
206115	206815	223115	60	70	416213
206116	206816	223116	63	73	416213
206117	206817	223117	65	75	416213
206119	206819	223119	76	86	416214
206120	-	223120	80	90	416215
206121	-	223121	89	99	416216
206123	-	223123	102	112	416216
206124	-	223124	114	124	416217
206125	-	223125	127	137	416217

- Specifically developed for use in coolant, heating and turbocharger systems
- Designed for carrying water and anti-freeze and also has good resistance to oil splashing, although it is not generally intended to transfer oils or fuels
- High performance materials and construction
- Ideal and reliable replacement for engine coolant and heater hose
- Suitable for use as a flexible joint between rigid pipes or anywhere where the silicone construction is more beneficial to rubber
- Made from plied silicone which have been reinforced with polyester, making it extra strong
- Highly resistant to oxygen, water, sunlight and UV radiation
- Offers excellent resistance to compression
- High electrical insulation qualities
- Very reliable working in extreme low and extreme high temperatures
- Compliant to SAE J20 R1 (Class A), meaning it is perfect for use in the marine industry
- Temperature range: -50°C to +180°C
- If more flexibility is needed, use superflex version below
- Red 3 metre lengths and other sizes available at [www.asap-supplies.com](http://www.asap-supplies.com)



206119



223109

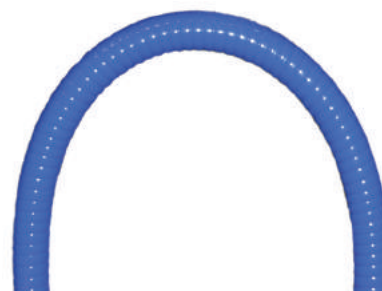
## SEAFLUX Superflex Blue Silicone Hose

- This hose features the same high standards as above, with a steel wire reinforcement and convoluted outer to prevent collapse under suction and improved flexibility
- Superflex range is suitable for awkward installations
- Available in a wide range of sizes
- Sold in 1 metre lengths
- Temperature range: -50°C to +180°C

1 metre lengths	I.D. mm (inch)	O.D. mm	Bend radius mm	Stainless steel 316 hose clip to suit
206151	13 (1/2")	20	45	416203
206152	16 (5/8")	23	94	416204
206153	19 (3/4")	26	105	416205
206154	22 (7/8")	29	122	416206
206155	25 (1")	33	134	416206
206156	28 (1-1/8")	36	145	416207
206157	32 (1-1/4")	39	160	416208
206158	35 (1-3/8")	42	175	416208
206159	38 (1-1/2")	45	190	416208
206160	41 (1-5/8")	49	205	416210
206161	45 (1-3/4")	52	220	416210
206162	48 (1-7/8")	55	228	416211
206163	51 (2")	57	235	416211



Flexible



206157

## SEAFLOW Nylon Piping



302371

- Nylon tubing suitable for use as a small marine fuel line
- Construction is a natural colour
- Extremely flexible to fit in any confined area
- For low pressure applications only
- Sold per metre
- Temperature range: -10°C to +80°

Per metre	O.D. inch	Working pressure PSI (bar)
302371	3/16"	450 (31)
302471	1/4"	370 (25.5)
302571	5/16"	370 (25.5)
302671	3/8"	400 (27.5)

Per metre	O.D. mm	Working pressure PSI (bar)
302153	6	350 (24)
302154	8	335 (23)
302155	10	320 (22)

## SEAFLOW Copper Tubing



302650

- Fuel line installations are subject to regulation
- Depending on the vessel type and area of use, almost all fuel systems will need to meet certain standards
- We strongly advise you to check with your local boating inspector or certifying authority before purchasing/installing fuel system items, to ensure that you have the correct type for your intended use
- Seaflo annealed soft copper piping manufactured to BS EN 12735-1:2001 standards
- Sold in 10 metre lengths
- Some are also available in 30 metre coils, visit [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	O.D. inch	Working pressure PSI (bar)
302250	1/8"	3026 (208.5)
302350	3/16"	1978 (136)
302450	1/4"	1891 (130)
302550	5/16"	1513 (104)
302650	3/8"	1261 (86.5)
302750	1/2"	945 (65)

Part no.	O.D. mm	Working pressure PSI (bar)
302111	4	1993 (137)
302113	6	2211 (152)
302114	8	1658 (114)
302115	10	1324 (91)
302116	12	1091 (75)

## SEAFLOW Pipe Repair Kits

- Complete kit for making emergency repairs to a wide variety of pipe materials, including exhausts
- Do not set sail without it, damage to some hoses can be catastrophic
- Consists of a patented fibreglass cloth, impregnated with water activated resin that sets in minutes, with no measuring, mixing, or messy clean-up
- Approved and used by the US Navy and Coast Guard
- Each kit contains a roll of CanFix cloth, a "two part epoxy" for filling and sealing, a pair of latex gloves, and instructions
- More information online at [www.asap-supplies.com](http://www.asap-supplies.com)

CanFix applications include:

- Riser exhaust
- Leaking hydraulic lines
- Water cooling hoses and fluid lines
- Leaking steam lines and fittings
- Corrosion protection coating
- Repair broken tool handles etc.
- Emergency repairs to fuel lines



425002

Part no.	Repair kit size mm	For pipe size mm (inch)
425002	50 x 1200	13 - 25 (1/2" to 1")
425003	75 x 2743	25 - 50 (1" to 2")
425004	100 x 3657	50 (2") and above

## CLAMP-AID® Clamp Aids

- Designed primarily to offer increased protection when working in small environments with hose clips and clamps
- Slides easily over the sharp clip end of the hose clamp band to help protect against the sharp edges
- Available in a wide range of colours to help provide a quick visual identification of fluid circuits when needed
- If something goes wrong with a fluid line, problems can be solved quickly by using basic colour codes to identify and take action without delay
- For people who don't work on engines all the time, the simple visual identification of the different fluid circuits on the engine would be very useful, as most engines are painted all over, including the hoses
- No need to remove any hoses to fit Clamp-Aids, they can be fitted in seconds by the operator or engineer.
- Should you drop one in the water, they float flat so they are even easy to retrieve
- Supplied in packs of 20
- Only fit standard Jubilee hose clips, see page 185



Part no.	Colour	Suggested use:
413191	Orange	Gas lines
413192	Red	Petrol lines
413193	Yellow	Diesel lines
413194	Grey	Grey water
413195	Blue	Fresh water
413196	Black	Sewage lines
413197	Green	Raw water

## Why Choose Jubilee Hose Clips?

A hose clip might not be the most expensive part of an installation, but if it fails the results could be disastrous. That is why Jubilee clips manufacture their hose clips to the very highest standards, using only premium grade materials. Jubilee clips have, over the years, proven to be safe, durable and capable in combating extreme clamping conditions. In fact, Jubilee exceeds the demands of BS 5315:1991 in all areas.



### Standard Hose Clips

Jubilee clips are constructed using the highest quality materials available to ensure they last and perform under the toughest of conditions.



416110

Mild steel	Stainless steel 304	Stainless steel 316	Max Tightening Torque Nm	Adjustment O.D. mm
416000	416100	416200	4.5	9.5 - 12
416001	416101	416201	4.5	11 - 16
416002	416102	416202	4.5	13 - 20
416003	416103	416203	5.6	16 - 22
416004	416104	416204	5.6	18 - 25
416005	416105	416205	6.8	22 - 30
416006	416106	416206	6.8	25 - 35
416007	416107	416207	6.8	30 - 40
416008	416108	416208	6.8	32 - 45
416009	416109	416209	7.9	35 - 50
416010	416110	416210	7.9	40 - 55
416011	416111	416211	7.9	45 - 60
416012	416112	416212	9	55 - 70
416013	416113	416213	9	60 - 80
416014	416114	416214	9	70 - 90
416015	416115	416215	9	85 - 100
416016	416116	416216	9	90 - 120
416017	416117	416217	9	110 - 140
416018	416118	416218	9	120 - 150
416019	416119	416219	7.9	135 - 165
416020	416120	416220	7.9	158 - 190
416021	416121	416221	7.9	184 - 216
416022	416122	416222	7.9	210 - 242
416023	416123	416223	7.9	235 - 267
416024	416124	416224	7.9	260 - 292
416025	416125	416225	7.9	286 - 318



### High Torque Clips

Jubilee high torque hose clips should be used where extra high levels of tightening torque is required. The Jubilee high torque clips have twice the tightening torque of the standard worm drive hose clips which creates more than twice the band tension for those stubborn leakage and high vibration applications.

- All stainless steel 304 construction, screws are stainless steel 410
- Recommended tightening torque of 11.9Nm



416503

Part no.	Adjustment O.D. mm
416500	20 - 35
416501	25 - 40
416502	25 - 45
416503	30 - 50
416504	40 - 70
416505	60 - 80
416506	70 - 95
416507	80 - 100
416508	90 - 120
416509	110 - 140
416510	130 - 160
416511	150 - 180
416512	170 - 200
416513	190 - 220
416514	210 - 240
416515	230 - 260
416516	250 - 280
416517	270 - 300
416518	290 - 320
416519	310 - 340
416520	330 - 360
416521	350 - 380
416522	370 - 400



### Tools

- Designed specifically for making the adjustment of hose clips and clamps as easy, efficient and rapid as possible
- Available with both a flexible and a rigid shaft in various lengths to help match the tool to your exact specification
- These can only be used for the standard Jubilee hose clips listed on this page

Part no.	Description
416901	Flexible clip driver
416903	Rigid clip driver 95mm length
416905	Rigid clip driver 160mm length



416901



416903



416905



## Superclamps

Jubilee superclamp hose clamps are constructed using the highest quality materials available to ensure they last and perform under the toughest of conditions.

Jubilee superclamp hose clamps should be used on heavy duty hoses for demanding applications, the Jubilee superclamps are easily adjusted with a single nut and bolt.



416607

Mild steel	304 Stainless steel	316 Stainless steel	Max Tightening Torque Nm	Adjustment O.D. mm
416600	416700	416800	6	17 - 19
416601	416701	416801	6	20 - 22
416602	416702	416802	6	23 - 25
416603	416703	416803	6	26 - 28
416604	416704	416804	6	29 - 31
416605	416705	416805	8	32 - 35
416606	416706	416806	8	36 - 39
416607	416707	416807	8	40 - 43
416608	416708	416808	8	44 - 47
416609	416709	416809	8	48 - 51
416610	416710	416810	8	52 - 55
416611	416711	416811	8	56 - 59
416612	416712	416812	8	60 - 63
416613	416713	416813	25	64 - 67
416614	416714	416814	25	68 - 73
416615	416715	416815	25	74 - 79
416616	416716	416816	25	80 - 85
416617	416717	416817	25	86 - 91
416618	416718	416818	25	92 - 97
416619	416719	416819	25	98 - 103
416620	416720	416820	25	104 - 112
416621	416721	416821	25	113 - 121
416622	416722	416822	25	122 - 130
416623	416723	416823	25	131 - 139
416624	416724	416824	25	140 - 148
416625	416725	416825	25	149 - 161
416626	416726	416826	25	162 - 174
416627	416727	416827	25	175 - 187
416628	416728	416828	25	188 - 200
416629	416729	416829	25	201 - 213
416630	416730	416830	25	214 - 226
416631	416731	416831	25	227 - 239
416632	416732	416832	25	240 - 252
416633	416733	416833	25	253 - 265

## SEAFLOW Copper Saddles

- Secures piping in place
- Fixed using 2 screws
- Sold in packs of 5



304981

Part no.	Size O.D. pipe
304981	3/16"
304982	1/4"
304983	5/16"
304984	3/8"
304985	1/2"

## SEAFLOW P Clips

- Metal P clips to secure pipes and electric cables
- Comes with a rubber lining which absorbs vibrations and prevents problems with chafing

### Stainless Steel 316

Part no.	Closed diameter mm	Quantity per pack
413755	5	10
413756	6	10
413758	8	10
413759	9	10
413760	10	10
413762	12	10
413763	13	10
413766	16	10
413769	20	5
413771	21	5
413772	22	5
413775	25	5
413778	28	5
413779	30	1
413782	32	1
413785	34	1
413790	40	1
413791	44	1
413793	48	1
413795	52	1
413796	56	1
413797	60	1



413758

### Zinc Plated

Part no.	Closed diameter mm	Quantity per pack
413705	5	10
413706	6	10
413708	8	10
413709	9	10
413710	10	10
413712	12	10
413713	13	10
413716	16	10
413719	19	5
413721	21	5
413722	22	5
413725	25	5
413728	28	5
413729	29	1
413732	32	1
413735	34	1
413740	40	1
413741	44	1
413743	48	1
413745	52	1
413746	56	1
413747	60	1



413722

## SEAFLOW Adjustable Plastic P Clips

- Adjustable plastic P clips for securing pipes
- Fixed using one screw
- Sold in packs of 25

Part no.	Closed diameter mm
304671	4-6
304672	6-9
304673	9-14
304674	14-22
304675	22-30



304672

## SEAFLOW Plastic P Clips

Part no.	Closed diameter mm
304950	3.2
304951	4.5
304952	6.4
304953	7.8
304954	9.3
304955	12.5
304956	13.7
304957	19
304958	22
304959	28

- Black plastic standard P clips for securing pipes, hoses, cables etc.
- Fixed using one screw
- Sold in packs of 50



304956



**since 1921**

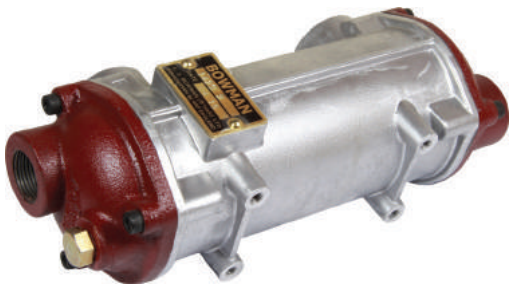


**Jubilee® Clips are available from ASAP Supplies:-**

**T: +44 (0)1502 716993**

**[www.asap-supplies.com](http://www.asap-supplies.com)**

**The finest hose clip  
in the world**



# HYDRAULICS

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# Parker Hydraulic Hose

We now offer made to order, high quality bespoke hydraulic hoses from Parker – the world leader in hydraulic hoses and assemblies. All hoses are assembled from stock and to your requirements by our Parker trained team. Simply pop in and see us or give us a call and our team can make the hoses you need straight away.

- Parker 471TC hose available from stock in 1cm increments, hose I.D.'s stocked are 1/4", 3/8", 1/2", 5/8", 3/4" and 1".
- Parker 48 series fittings to suit the 471TC hose in stock cover BSP, metric, NPT, UNF and JIC. These are available in straight, 45° and 90°
- If you don't see what you need above, then please contact us on 01502 716993



## Parker Parkrimp Hydraulic Oil Pipes

Pre-made pipes for oil coolers with pre fitted BSP end connections for coolers and oil lines up to 5800 PSI. Please note that these are our most popular selection, other sizes can be made to order while you wait.

Part no.	End connections BSP Female	Overall length inches (mm)	Ends
203512	3/8"	12" (304.8)	Both straight
203513	3/8"	12" (304.8)	Straight and 90°
203514	3/8"	12" (304.8)	Both 90°
203518	3/8"	18" (457.2)	Both straight
203519	3/8"	18" (457.2)	Straight and 90°
203520	3/8"	18" (457.2)	Both 90°
203524	3/8"	24" (609.6)	Both straight
203525	3/8"	24" (609.6)	Straight and 90°
203526	3/8"	24" (609.6)	Both 90°
203612	1/2"	12" (304.8)	Both straight
203613	1/2"	12" (304.8)	Straight and 90°
203614	1/2"	12" (304.8)	Both 90°
203618	1/2"	18" (457.2)	Both straight
203619	1/2"	18" (457.2)	Straight and 90°
203620	1/2"	18" (457.2)	Both 90°
203624	1/2"	24" (609.6)	Both straight
203625	1/2"	24" (609.6)	Straight and 90°
203626	1/2"	24" (609.6)	Both 90°



203512



203513



203620

## Hydraulic Steering

We offer complete Hydraulic Steering systems and accessories. Please see pages 254-255 for more information, or call our professional team today for help and advice on choosing your system.



V-OBC125



V-HTP3010



603508

## Typical Marine applications for Hydraulics:

- Gearboxes
- Steering
- Haulers
- Winches
- Fishing gear
- Thrusters
- Ramps

**BOWMAN** Hydraulic Oil Coolers


203338

Other sizes are available at  
[www.asap-supplies.com](http://www.asap-supplies.com).

Part no.	Model	Hydraulic oil flow lpm	Cooling water flow lpm	Oil and water connections BSP female	Heat dissipated kW	Maximum pressure bar @ 120°C	Dimensions l x w x h mm
203308	EC80	80	80	Oil: 1/2", Water: 3/4"	4	20	174 x 100 x 105
203310	EC100-1425-2	80	80	3/4"	9	20	260 x 100 x 105
203312	EC120	77	80	3/4"	13	20	346 x 100 x 105
203314	EC140	68	80	3/4"	17	20	444 x 100 x 105
203316	EC160	64	80	3/4"	22	20	572 x 100 x 105
203338	FC80-1426-1	140	140	1"	13	20	272 x 126 x 130
203340	FC100	145	140	1"	19	20	358 x 126 x 130
203342	FC120	116	140	1"	26	20	456 x 126 x 130
203344	FC140	105	140	1"	35	20	584 x 126 x 130
203346	FC160	96	140	1"	45	20	730 x 126 x 130

**SEAFLOW** Straight Steel Unions


203901

Part no.	BSP Description
203901	1/4" BSP male to 1/4" BSP male
203902	1/4" BSP Male to 3/8" BSP Male
203905	1/4" BSP Male to 1/4" BSP Female
203906	1/4" BSP Male to 3/8" BSP Female

**SEAFLOW** 90° Swept BSP Elbows


203942

Part no.	Description
203942	3/8" BSP male to BSP female
203943	1/2" BSP male to BSP tapered female

Other sizes available online. Please visit  
[www.asap-supplies.com](http://www.asap-supplies.com)

**Hydraulic Oil**


603811



V-VHS1

Part no.	Description	Size
603811	HV10 hydraulic oil	1 litre
603815	HV10 hydraulic oil	5 litres
603821	HV22 hydraulic oil	1 litre
603825	HV22 hydraulic oil	5 litres
603831	HV32 hydraulic oil	1 litre
603845	HM32 hydraulic oil	5 litres
603847	HM32 hydraulic oil	25 litres
603855	HM46 hydraulic oil	5 litres
603857	HM46 hydraulic oil	25 litres
V-VHS1	LHM HF15 hydraulic oil	1 litre

**SEAFLOW** Straight BSP Unions


203920

Part no.	Description
203910	3/8" BSP male each end
203911	3/8" BSP male to 3/8" BSP female
203912	3/8" BSP tapered male to 3/8" BSP male
203915	3/8" BSP male to 1/2" BSP male
203916	1/2" male to 3/8" female
203917	3/8" BSP tapered male to 1/2" BSP male
203919	3/8" BSP male to 1/2" BSP female
203920	1/2" BSP male each end
203921	1/2" BSP male to 1/2" BSP female
203922	1/2" BSP tapered male to 1/2" BSP parallel male
203923	1/2" BSP male to 3/4" BSP male
203924	3/4" BSP male each end
203927	3/4" BSP male to 1" BSP male
203929	1" BSP male to 1" BSP male



Full range of Threads & Fittings available,  
please see Fittings, Valves & Strainers section

**SEAFLOW** Dowty Washers


203996

Part no.	BSP male
203992	1/4"
203993	3/8"
203994	1/2"
203995	5/8"
203996	3/4"
203997	1"
203998	1-1/4"
203999	1-1/2"

Hydraulic Hose made to your requirements.  
Contact us on 01502 716993 or visit our  
website for more details.



# LIGHTING

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Deck Lights  
Floodlights  
Interior Lights  
Light Bulbs  
Navigation Lights  
Pole Lights  
Scenelights  
Searchlights  
Utility Lights  
Worklight



## LED Searchlights



723501

- The renowned Golight Stryker searchlight now comes in a range of LED options
- Available in white gloss and black
- 5 year limited warranty
- Has different remote options; wired dash mount and wireless remote with 100 metre range
- Stainless steel innovative mounting system, can rotate 370° with 135° tilt
- Base mounted on a stainless steel mounting plate, which is supplied with gasket and screws
- Exclusive CR5 Pentabeam II technology to provide peak beam intensity of 320,000 candela at 2.8A
- Light can reach up to 1,131 metres
- Specifically sealed for use in marine environments
- Features a two speed operation and provides excellent light penetration with the new LED / PVex lens technology
- UV ray and salt water resistant, making it suitable for marine and land applications
- New streamlined design with improved efficiency, making this the most reliable Golight yet

Others models available including chrome and black case, please see our website for the full range at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Volts	Model	Remote type	Base dimensions mm	Beam angle
723501	12V	30004	Wireless handheld	152 x 152	8°
723513	12V	30214	Wired dash remote	152 x 152	8°
723601	24V	30004-24	Wireless handheld	152 x 152	8°



## Stryker Searchlights

723321  
Handheld remote and dash remote

- The renowned Golight Stryker searchlight now comes in a range of LED options
- White gloss finish
- 5 year limited warranty
- Has different remote options; wired dash mount and wireless remote with 100 metre range
- Stainless steel innovative mounting system, can rotate 370° with 135° tilt
- Base mounted on a stainless steel mounting plate, which is supplied with gasket and screws
- Exclusive CR5 Pentabeam II technology to provide peak beam intensity of 200,000 candela at 5.5A
- Light can reach up to 894 metres
- Specifically sealed for use in marine environments
- Features a two speed operation and provides excellent light penetration with the new LED / PVex lens technology
- UV ray and salt water resistant, making it suitable for marine and land applications
- New streamlined design with improved efficiency, making this the most reliable Golight yet

Others models available including chrome and black case, please see our website for the full range at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Volts	Model	Remote type	Base dimensions mm	Beam angle
723301	12V	3000	Wireless handheld	152 x 152	10°
723401	24V	3000-24	Wireless handheld	152 x 152	10°
723311	12V	3100	Wired dash remote	152 x 152	10°
723411	24V	3100-24	Wired dash remote	152 x 152	10°
723321	12V	3067	Wireless handheld and dash remote	152 x 152	10°
723421	24V	3067-24	Wireless handheld and dash remote	152 x 152	10°

## Stryker Spares and Accessories



Part no.	Description
723190	Replacement battery for wireless remote
723193	Bulb for Golight Strykers 12V and 24V
723196	Handheld remote for Golight Stryker
723197	Dash mount control for Stryker



## Radioray Searchlights

- Saltwater resistant
- Finished in white
- Uses exclusive CR5 Pentabeam technology
- Power, candela at 5.5A: 225,000
- Permanent mount
- Can rotate 370° with 135° tilt
- 3 year limited warranty
- Others colours available, please visit [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Volts	Model	Remote type	Base dimensions mm	Height mm	Width mm	Depth mm
723110	12V	2000	Wireless handheld	139 x 139	165	178	178
723210	24V	2000-24	Wireless handheld	139 x 139	165	178	178
723120	12V	2020	Wired dash remote	139 x 139	165	178	178

## Radioray Spare and Accessories

Part no.	Description
723156	Clear weather dome
723190	Replacement battery for wireless remote
723191	Replacement bulb
723195	Wired dash mount remote (for 2020 models)



## Searchlights

- Weatherproof, corrosion-resistant construction
- Finished in white
- Can rotate 320° with 75° tilt
- 1 year limited warranty
- Power, candela: 100,000

Part no.	Volts	Remote type	Height mm	Width mm	Depth mm	Replacement unit
JAB-60020-0000	12V	Wired dash mount	185	180	210	JAB-18753-0178
JAB-60020-0024	24V	Wired dash mount	185	180	210	JAB-18753-0178

- Weatherproof, corrosion-resistant construction
- Finished in white
- Can rotate 360° with 60° tilt
- 1 year limited warranty
- Power, candela: 150,000

Part no.	Volts	Remote type	Height mm	Width mm	Length mm	Replacement unit
JAB-60080-0012	12V	Wired dash mount	240	230	260	JAB-18753-0455
JAB-60080-0024	24V	Wired dash mount	240	230	260	JAB-18753-0455

## Deck Lights



## Island Floodlights

- Stove enamelled, stainless steel body which is waterproof, non-corroding and non-magnetic
- Designed for commercial use
- Does not include a bulb, see options in table - **720397** or **720398**
- Flexible wiring capabilities to allow for AC and DC voltage installations
- Maximum 240V, 200W
- Water Resistance: IP67

Part no.	Overall height mm	Overall width mm	Overall depth mm	Base height mm	Base width mm	Base depth mm	Replacement 12V Bulb	Replacement 24V Bulb
720382	250	224	153	60	64	34	720397	720398



## LED Work Light

- IP rated to IP67
- Output of 1800 lumens
- Significant energy savings over standard incandescent work lights

Part no.	Volts	Watts	Depth mm	Diameter mm	Beam angle
720221	12V & 24V	20W	36	114	36°



723110



723120



723156



723190



723191



JAB-60020-0000



JAB-60080-0012



720382



720221



724713

### Labcraft LED Worklight

- 10 year warranty
- Multi-voltage suitability
- Uses 80% less energy than halogen work lights
- Integrated on / off switch
- Protection rating of IP67
- 90° beam angle

Part no.	Volts	Watts	Height mm	Width mm	Depth mm	Light output (lm)	Case colour	Light colour
724713	10 to 32V	10.5W	135	140	43	1300	Grey	White
724716	10 to 32V	10.5W	135	140	43	1300	White	White



720333

### Hamburg Floodlights

- Designed especially for marine use
- Black polycarbonate construction which is waterproof, non-corroding and non-magnetic
- Ideal for deck / mast installations on sailboats as well as powerboats

Part no.	Volts	Watts	Diameter mm	Height mm	Mounting bracket	Replacement bulb
720333	12V	50W	124	88	720339	720983
720335	24V	50W	124	88	720339	720982



720403



720407

### JABSCO Floodlights

- Ideal for deck, cockpit or boarding point on leisure, commercial, fishing and safety craft
- Special trapezoidal beam pattern which is designed to be mounted above one end of a horizontal area to be illuminated and spread light evenly over the surface
- Sharp cut off which enables accurate selection of the area to be illuminated minimizing stray light
- Stainless steel mounting bracket included
- Sealed beam tungsten halogen bulb with 450 hour average life span included
- White polypropylene housing

Part no.	Volts	Watts	Model number	Length mm	Width mm	Fuse amp	Replacement sealed beam unit
720401	12V	30W	45900-0000	180	115	6	720412
720403	24V	60W	45900-0001	180	115	3	720411
720407	12V	30W	45900-1000	130	80	6	720409



724684



724686



724688

### Labcraft LED Scenelight

- 10 year warranty
- Features high output Cree LED technology that produces a clean, white light for a safer environment
- Designed to produce superior illumination through the angle the LEDs are positioned at
- Waterproof protection rating of IP67

Part no.	Volts	Watts	Length mm	Height mm	Depth mm	Light output (lm)	Light colour
724684	10 to 32V	18W	310	82	38	1704	White
724686	10 to 32V	12.5W	230	62.58	36.07	1420	White
724688	10 to 32V	10W	182.5	50	20	1120	White



723006



723031

### ASAP Fluorescent Deck Lights

- Strong compact GRP body, polycarbonate diffuser and plastic catches
- Come complete with two energy efficient T8 18W cool white fluorescent tubes
- Water ingress protection of IP65
- Designed by commercial users for commercial use
- Slim and compact twin fluorescent deck light units will provide excellent illumination

Part no.	Volts	Watts	Length mm	Width mm	Height mm	Tube type	Replacement bulb (2 required)
723006	12V	2 x 18W	670	110	100	T8	723099
723026	24V	2 x 18W	670	110	100	T8	723099

- Tough and durable
- Water ingress protection of IP65
- Designed for interior and exterior use
- Features 2 x 9W PL9 fluorescent tube lights
- Suitable for commercial applications

Part no.	Volts	Watts	Length mm	Width mm	Height mm	Tube type	Replacement bulb
723031	12V	2 x 9W	240	120	106	PL9	723097
723032	24V	2 x 9W	240	120	106	PL9	723097

## LED Cabin Lights

Our LED lighting range is increasing in size, and offers you even more energy savings. These Labcraft LED lights come in a variety of stylish looks and really make a difference to the look of your cabin. LED light bulbs are an ideal way to dramatically reduce power consumption. Modern advances in LED bulb technology mean that the latest LED replacement bulbs are now even brighter and more efficient than ever. These lights are all suitable for interior applications on boats, caravans, RVs and in other general automotive applications.

### Labcraft LED Cabin Lights

- 10 year limited warranty
- Made in the UK
- White cased body
- Surface mount
- Can be fitted in many applications
- Long life Cree LEDs are mounted on an aluminium PCB to ensure that light output is maintained and heat effectively managed, eliminating the cost of tube replacements

Linear Series							
Part no.	Volts	Watts	Length mm	Width mm	Depth mm	Light output (lm)	Light colour
724731	12V	3W	381	78	24	320	White
724732	24V	3W	381	78	24	320	White
724733	12V	6W	381	78	24	640	White
724734	24V	6W	381	78	24	640	White
724735	12V	9W	381	78	24	960	White
724736	24V	9W	381	78	24	960	White



724733

Trilite Series							
Part no.	Volts	Watts	Length mm	Width mm	Depth mm	Light output (lm)	Light colour
724737	12V	3W	381	78	24	320	White
724738	24V	3W	381	78	24	320	White
724739	12V	6W	381	78	24	640	White
724740	24V	6W	381	78	24	640	White



724739

### Labcraft Flux Series

- 10 year limited warranty
- Made in the UK
- White cased body
- Features high output Cree LED technology that produces a clean, cool white light for a safer environment in working and leisure applications
- Acrylic LGP that features a unique anti-glare light guide

Part no.	Volts	Watts	Length mm	Width mm	Depth mm	Light output (lm)	Light colour
724610	10 to 15V	15W	570	90	10.6	1125	Cool white
724611	10 to 15V	30W	570	90	10.6	2250	Cool white



724610

### Labcraft Orion Series

- 10 year limited warranty
- Made in the UK
- Clear cased body
- Features high output Cree LED technology that enables the Orion to offer optimal performance and longer life
- Waterproof to IP66, protected from moisture ingress
- Easy to install, the strip can be installed in a range of different ways

Part no.	Volts	Watts	Length mm	Depth mm	Light output (lm)	Light colour
724616	12V	6W	522	18	544	White
724617	24V	6W	522	18	544	White
724618	12V	12W	1022	18	1108	White
724619	24V	12W	1022	18	1108	White



724616

### Orion Accessories

Part no.	Description
724628	Metal fixing clip (2 required)
724629	Clear mounting clip (2 required)



724628



724629



724631

### Labcraft Astro Series

- 10 year limited warranty
- Made in the UK
- Waterproof to IP66, protected from moisture ingress
- Features the Orizon LED strip light which uses the latest in LED technology and offers optimal performance and longer life
- Aluminium housing and ABS end caps

Part no.	Volts	Watts	Length mm	Height mm	Light output (lm)	Light colour
724631	10 to 14V	6W	593	43	554	White
724632	20 to 28V	6W	593	43	554	White



724635

### Labcraft Power Astro Series

- 10 year limited warranty
- Made in the UK
- The Power LED version offers a more concentrated light output across a shorter span.
- Waterproof to IP66, protected from moisture ingress
- Aluminium housing and ABS end caps

Part no.	Volts	Watts	Length mm	Height mm	Light output (lm)	Light colour
724635	10 to 15V	3W	343	43	320	White
724636	20 to 32V	3W	343	43	320	White



724671

### Labcraft Nebula Series

- 10 year limited warranty
- Made in the UK
- Greater luminosity, allowing a brighter light to be obtained using fewer LEDs, which results in a lower power usage
- Waterproof to IP66, protected from moisture ingress



724677

Part no.	Volts	Watts	Length mm	Height mm	Depth mm	Light output (lm)	Switch type	Light colour
724667	10 to 14V	6W	624	44	15	554	Remote	Cool white
724668	20 to 28V	6W	624	44	15	554	Remote	Cool white
724669	10 to 14V	6W	624	44	15	554	Integrated	Cool white
724670	20 to 28V	6W	624	44	15	554	Integrated	Cool white
724671	10 to 14V	12W	1124	44	15	1108	Remote	Cool white
724672	20 to 28V	12W	1124	44	15	1108	Remote	Cool white
724673	10 to 14V	12W	1124	44	15	1108	Integrated	Cool white
724674	20 to 28V	12W	1124	44	15	1108	Integrated	Cool white
724677	12V	3W	376	44	15	320	Integrated	Cool white



724653



724651

### Labcraft Megaflux Series

- 10 year limited warranty
- Made in the UK
- High output Cree LED technology that produces a clean, white light for a safer environment
- The circuit will maintain a consistent light output throughout any changes in voltage
- Waterproof to IP66, protected from moisture ingress

Part no.	Volts	Watts	Height mm	Width mm	Depth mm	Light output (lm)	Light colour
724653	10 to 32V	5W	132	132	13.5	640	White
724654	10 to 32V	10W	132	132	13.5	1130	White

### Labcraft Megaflux Series with PIR Sensor

The PIR sensor / switch has been designed to detect the movement of body heat to trigger the sensor. When the sensor has been activated the light will switch on for 5 minutes, after which it will automatically switch off. This prevents unnecessary load on the battery and extends battery life as a result. If the PIR sensor detects continuous movement, the LED lights will stay on.

Part no.	Volts	Watts	Height mm	Width mm	Depth mm	Light output (lm)	Light colour
724651	10 to 15V	4W	132	132	13.5	480	White
724652	20 to 32V	4W	132	132	13.5	480	White



724702

### Labcraft Novaflux Series

- 10 year limited warranty
- Made in the UK
- High output Cree LED technology that produces a clean, white light for a safer environment
- Multi-voltage suitability
- Integrated on / off switch

Part no.	Volts	Watts	Length mm	Height mm	Depth mm	Light output (lm)	Light colour
724702	10 to 32V	2.5W	107	44	14	320	White

## Standard Cabin Lights

We offer a diverse range of practical cabin lights. This includes traditional tungsten cabin lights, halogen interior lights, fluorescent strip lights and ASAP 2D energy saving fluorescent lights.

The ASAP 2D range of fluorescent lights has been tested and proven to give outstanding light whilst using the minimum amount of power. These lights are all suitable for interior applications on boats, caravans, RVs and in other general automotive applications.



### Square Lamps

- High output, low energy consumption 2D fluorescent light
- Suitable for interior use only
- Wall or ceiling mount
- White body with a clear patterned lens held in with two screws including a switch
- Use of a high frequency inverter means better efficiency and less current drain
- 10W lamp @ 0.7A are comparable in lumens to a 40W bulb
- 16W lamp @ 1A are comparable in lumens to a 75W bulb

Part no.	Volts	Watts	Length mm	Width mm	Depth mm	Replacement bulb
718001	12V	10W	165	165	48	718091
718002	24V	10W	165	165	48	718091
718003	12V	16W	165	165	48	718096
718004	24V	16W	165	165	48	718096

Part no.	Volts	Watts	Length mm	Width mm	Depth mm
718005	12V & 24V	4W	165	165	48
718006	12V & 24V	4W	165	165	48



718003



### Round Lamps

- High output, low energy consumption 2D fluorescent light
- Traditional styling
- Suitable for interior use only
- Wall or ceiling mount
- Use of a high frequency inverter means better efficiency and less current drain
- 16W lamp @ 1A are comparable in lumens to a 75W bulb

Part no.	Volts	Watts	Diameter mm	Depth mm	Replacement bulb
718051	12V	16W	220	52	718096
718052	24V	16W	220	52	718096



718051



### Dome Lights

- Interior surface mounted dome light
- Features an integrated switch on the side
- Supplied with a fitted 12V bulb
- LED replacement bulbs available, **739810** - cool white LED, or **739812** warm white LED

Part no.	Volts	Watts	Diameter mm	Lens diameter mm	Depth mm	Finish	Replacement bulb
720205	12V	10W	140	100	38	Stainless steel	721931
720206	12V	10W	170	125	42	Stainless steel	721931
720215	12V	10W	140	100	38	Brass	721931
720216	12V	10W	170	125	42	Brass	721931



720205



720215

### PERKO® Dome Lights

- Designed for interior use only
- Suitable for wall or ceiling mounting
- Black vinyl mounting gasket
- Surface push on / off switch with water resistant boot
- Come with double contact bayonet sockets with bulb included

Part no.	Volts	Watts	Model	Base diameter mm	Lens diameter mm	Depth mm	Case	Replacement bulb
719503	12V	7W	0300	95	76	50	Chrome	730961
719504	12V	11W	0300	125	102	47	Chrome	730962
719505	12V	17W	0300	150	127	50	Chrome	730963
719534	12V	11W	1253	125	102	47	White	730962
719535	12V	17W	1253	150	127	50	White	730963



719503



719534

 **Callisto lights**

- 10 year limited warranty
- Waterproof to IP66, protected from moisture ingress
- Features high output Cree LED technology that produces a high intensity white light source
- Suitable for a range of applications



Part no.	Volts	Watts	Depth mm	O.D mm	Light output (lm)	Case colour	Light colour
724602	10 to 32V	1.25W	13.8	58	160	Chrome	White
724604	10 to 32V	1.25W	13.8	58	160	White	White

 **LED Low Profile Cabin Lights**

Low energy consumption combined with high light output, the LED interior cabin lights use the very latest LED technology to save on energy. Multiple LED cabin lights can be wired together via a master switch, or controlled individually with the built in surface switch.



Part no.	Watts	Light colour	Brightness lm	Diameter mm	Depth mm	Finish	Mount
751221	4W	Cool white	510	165	20	Polished brass	Recess
751222	4W	Cool white	510	170	28	Polished brass	Surface
751231	4W	Cool white	510	165	20	Chromed brass	Recess
751232	4W	Cool white	510	170	28	Chromed brass	Surface

**PERKO® Plastic Utility Lights**

- Made from moulded plastic with diffusion lens
- CE certified
- Snap on cover hides the screw heads making a neat and tidy installation
- Fitted with 175mm pigtail connection leads
- Comes with 3 watt incandescent bulb



Part no.	Volts	Watts	Model	Length mm	Width mm	Cut out mm	Body colour	Replacement bulb
719573	12V	3W	1044	57	57	75	Black	730929
719574	12V	3W	1044	57	57	75	White	730929

 **LED Courtesy Lights**

- Designed to fit discretely into stairwells or walkways to light the way
- Lamp has a threaded end with wiring coming through



Part no.	Volts	Diameter mm	Cut out mm	Light colour
751001	12V	38	22	White
751002	12V	38	22	Red
751003	12V	38	22	Blue

 **LED Chart Lamp**
**719122**

Suitable for map reading day or night. This chart lamp features a low power consuming LED bulb which can be switched between a red light and a white light. The chart / map light features a flexible gooseneck shaft that will rotate to direct the light in any direction required.

- 305mm
- 12V DC


 **LED Map Light**

- Requires very low power at an average of 0.07amps
- Dual colour light
- Adjustable arm
- Slimline design with integrated switch



Part no.	Volts	Light output lm	Light colour
724641	12V	72	White & red
724642	24V	72	White & red

## LED Navigation Lights

Our range of marine navigation lights are suitable for a wide range of boats. From small spherical navigation lights for small crafts to the large commercial navigation lights. We offer an extensive range of navigation lights, in black, white, chrome or stainless steel casings. Our navigation lights are available in 12 volt and 24 volt varieties and include bicour, tricolour and all round lights.

This is our range of LED navigation lights, which are low energy consumption and long life. LED navigation lights are available in a number of styles by Hella, ASAP Electrical and Perko. LED light bulbs are an ideal way to dramatically reduce power consumption, modern advances in LED bulb technology mean that the latest LED replacement bulbs are now even brighter and more efficient than ever.



## LED Navigation Lights - Under 20 Metres



### LED Navigation Lights

- Suitable for vessels under 20 metres in length
- LEDs are more energy efficient than incandescent light bulbs
- Rated IP56 for water ingress



731802



731811



731822



731831

Case construction				Volts	Watts	Height mm	Length mm	Light arc	Visibility nm	Light colour
White plastic	Black plastic	Chromed plastic	Stainless steel							
731801	731811	731821	731831	12 / 24V	1W	47.7	69.7	112.5°	2	Port red
731802	731812	731822	731832	12 / 24V	1W	47.7	69.7	112.5°	2	Starboard green



731651



731652



731672



731675

Case construction		Volts	Watts	Height mm	Width mm	Depth mm	Light arc	Visibility nm	Light colour
White plastic	Black plastic								
731671	731651	12 / 24V	2W	88	60	42	112.5°	2	Port red
731672	731652	12 / 24V	2W	88	60	42	112.5°	2	Starboard green
731673	731653	12 / 24V	2W	88	60	42	135°	2	Stern white
731674	731654	12 / 24V	2W	88	60	42	225°	2	Masthead white
731675	731655	12 / 24V	2W	88	60	42	112.5° / 112.5°	2	Bicolour (combined port red & starboard green)

- Suitable for vessels under 20 metres in length
- LEDs are more energy efficient than incandescent light bulbs
- Rated IP56 for water ingress
- Visibility 2 nautical miles
- Base diameter: 55mm

Case construction				Volts	Watts	Height mm	Diameter mm	Light arc	Light colour
White plastic	Black plastic	Chromed plastic	Stainless steel						
731803	-	-	-	12 / 24V	1W	79.7	49.4	135°	Stern white
731804	-	-	-	12 / 24V	1W	79.7	49.4	225°	Masthead white
731807	731817	731827	731837	12 / 24V	1W	79.7	49.4	360°	All round white



731803



731817



731827



731837

- Suitable for vessels under 20 metres in length
- LEDs are more energy efficient than incandescent light bulbs
- Rated IP56 for water ingress
- Visibility 2 nautical miles
- Housed in a stainless steel 316 body

Part no.	Volts	Length mm	Width mm	Height mm	Light arc	Light colour
731871	12 / 24V	65.5	58.5	27	112.5°	Port red
731872	12 / 24V	65.5	58.5	27	112.5°	Starboard green
731875	12 / 24V	65.5	58.5	27	112.5° / 112.5°	Bicolour - green and red



731871



731872



731875



731730



## Combined LED Navigation Light and Deck Light

- Flexible mounting wings that will move to match any kind of mast
- Suitable for boats up to 20 metres in length

Part no.	Volts	Watts	Height mm	Width mm	Light arc
731730	12V / 24V	Deck light: 4 x 1W LEDs	195	140	225°



## LED Navigation Lights - Pair



731890

- Sold per pair: starboard green and port red LED navigation lights
- Suitable for vessels under 20 metres in length
- LEDs are more energy efficient than incandescent light bulbs
- Case colour: Stainless steel
- Visibility 2 nautical miles

Part no.	Volts	Length mm	Width mm	Depth mm	Light arc	Light colour
731890	12V	92.1	77.1	33.7	112.5°	1 x starboard green 1 x port red



## Bicolour LED Navigation Lights



731885



731895

- Bicolour combined port red and starboard green navigation light
- Suitable for vessels under 20 metres in length
- LEDs are more energy efficient than incandescent light bulbs
- Rated IP67 for dust and water ingress
- Visibility 2 nautical miles

Part no.	Volts	Length mm	Width mm	Height mm	Light arc	Case colour	Light colour
731885	12V	92.1	77.1	33.7	112.5° / 112.5°	White	Combined port red and starboard green
731895	12V	92.1	77.1	33.7	112.5° / 112.5°	Stainless steel	Combined port red and starboard green



## NaviLED PRO LED Navigation Lights



721211



721212



721213



721214

- Extremely shock and vibration proof
- LEDs are more energy efficient than incandescent light bulbs
- Suitable for vessels under 20 metres
- Rated IP67 for water ingress
- Visibility 2 nautical miles

Part no.	Volts	Height mm	Width mm	Depth mm	Case colour	Light colour
721211	9V to 33V	90	87	56.5	Black	Starboard green
721212	9V to 33V	90	87	56.5	Black	Port red
721213	9V to 33V	90	87	56.5	Black	Stern white
721214	9V to 33V	90	87	56.5	Black	Masthead white



## NaviLED Compact LED Navigation Lights



721221



721222



721223

- Extremely shock and vibration proof
- LEDs are more energy efficient than incandescent light bulbs
- Suitable for vessels under 20 metres
- Rated IP67 for water ingress
- Visibility 2 nautical miles

Part no.	Volts	Height mm	Width mm	Depth mm	Case colour	Light colour
721221	9V to 33V	53	71	33	Black	Starboard green
721222	9V to 33V	53	71	33	Black	Port red
721223	9V to 33V	53	71	33	Black	Stern white



## NaviLED 360 LED Navigation Lights

- Extremely shock and vibration proof
- LEDs are more energy efficient than incandescent light bulbs
- Suitable for vessels under 20 metres
- Rated IP67 for water ingress
- Visibility 2 nautical miles

Part no.	Volts	Height mm	Diameter mm	Case colour	Light colour
<b>721231</b>	9V to 33V	90	83	Black	All round green
<b>721232</b>	9V to 33V	90	83	Black	All round red
<b>721233</b>	9V to 33V	90	83	Black	All round white



721231



721232



721233

## LED Navigation Lights - Under 12 Metres



### LED Navigation Lights - Back Mount

- Sold per pair: starboard green and port red LED navigation lights
- Suitable for vessels under 12 metres in length
- LEDs are more energy efficient than incandescent light bulbs

Part no.	Voltage	Length mm	Width mm	Height mm	Light arc	Visibility nm	Case colour	Light colour
<b>731840</b>	12V	97	62	42	112.5°	1	Stainless steel	1 x starboard green 1 x port red
<b>731850</b>	12V	97	62	42	112.5°	1	White	1 x starboard green 1 x port red



731840



731850

- Housed in a white ABS body
- Suitable for vessels under 12 metres in length
- LEDs are more energy efficient than incandescent light bulbs

Part no.	Volts	Length mm	Width mm	Height mm	Light arc	Visibility nm	Case colour	Light colour
<b>731843</b>	12V	76	20	22	135°	1	Stainless steel	Stern white
<b>731853</b>	12V	76	20	22	135°	1	White	Stern white



731843



731853



### Compact LED Navigation Lights

- Suitable for vessels under 12 metres in length
- LEDs are more energy efficient than incandescent light bulbs
- Rated IP56 for water ingress

Case construction		Volts	Watts	Height mm	Width mm	Depth mm	Light arc	Visibility nm	Light colour	Replacement bulb
White plastic	Black plastic									
<b>731711</b>	<b>731701</b>	12V	0.8W	70	80	42	112.5°	1	Port red	<b>731728</b>
<b>731712</b>	<b>731702</b>	12V	0.8W	70	80	42	112.5°	1	Starboard green	<b>731729</b>
<b>731713</b>	<b>731703</b>	12V	0.8W	70	80	42	135°	2	Stern white	<b>731729</b>



731701



731712

## Standard Navigation Lights - Suitable For Vessels Under 7 Metres



## Small Two 5 Series Navigation Lights



721601



721602



721614



721617

- Housed in a watertight textured body
- Suitable for vessels under 7 metres in length
- Incandescent bulb included
- Suitable for back mounting (\*excluding 721617 which is base mounted)
- Rated IP56 for water ingress
- Visibility 1 nautical mile

Black case	Stainless steel 316 case	Volts	Watts	Height mm	Width mm	Depth mm	Light arc	Light colour	Replacement bulb
721601	721611	12V	10W	75	64	58	112.5°	Starboard green	721961
721602	721612	12V	10W	75	64	58	112.5°	Port red	721961
721603	721613	12V	10W	75	64	58	135°	Stern white	721961
721604	721614	12V	10W	75	64	58	225°	Masthead white	721961
-	721615	12V	10W	75	64	58	112.5° / 112.5°	Bicolour - green + red	721961
-	721617*	12V	10W	74	64	64	360°	All round white	721961



## Series 25 Navigation Lights



721301



721302



721305



721307



721308



721309



721327

- Housed in a shock and impact resistant black polycarbonate body, which is non-corrosive, non-magnetic and seawater resistant
- Suitable for vessels under 7 metres in length
- Incandescent bulb included
- Suitable for side back mount (\*excluding 721307, 721308, 721309 which are base mounted)
- 2 wire cable included
- Rated IP45 for water ingress
- Visibility 1 nautical mile

Replacement bulbs, for lights bought prior to 2011 please order bulb part numbers 12V - 721924 or 24V - 721925, these have indented contacts. New lights are supplied with 12V - 721926 or 24V - 721927, these have pointed contacts.

Part no	Volts	Watts	Height mm	Width mm	Depth mm	Light colour
721301	12V	10W	73	64	58	Starboard green
721302	12V	10W	73	64	58	Port red
721303	12V	10W	75	62	62	Stern white
721304	12V	10W	73	64	58	Masthead white
721305	12V	10W	73	64	58	Bicolour
721307*	12V	10W	75	62	62	All round white
721308*	12V	10W	75	62	62	All round red
721309*	12V	10W	75	62	62	All round green

721926  
New style721924  
Old style

- Housed in a shock and impact resistant white polycarbonate body, which is non-corrosive, non-magnetic and seawater resistant
- Suitable for deck mount
- Rated IP56 for water ingress

Part no.	Volts	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	Replacement bulb
721327	12V	10W	75	62	62	2	360°	All round white	721924



## 3652 Small Navigation Lights



721001



721002



721003



721007

- Housed in a UV and impact resistant black plastic body
- Suitable for vessels up to 12 metres in length
- Incandescent bulb included, which can be easily accessed and changed due to the 'snap lock' housing
- Suitable for vertical surface mount and cable entry comes through the base plate (\*excluding 721007 which is base mounted)
- Rated IP54 for water ingress

Black	Volts	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	Replacement Bulb
721001	12V	10W	75	63	53	1	112.5°	Starboard green	721920
721002	12V	10W	75	63	53	1	112.5°	Port red	721920
721003	12V	10W	75	63	53	2	135°	Stern white	721920
721004	12V	10W	75	63	53	2	225°	Masthead white	721920
721007*	12V	10W	68	60	60	2	360°	All round white	721944

## Standard Navigation Lights For Vessels Under 12 Metres



### Compact Navigation Lights

- Suitable for vessels under 12 metres in length
- Incandescent bulb included
- Suitable for back mounting
- Rated IP56 for water ingress



721801



721812



721821

Black case	Stainless steel 316 case	White case	Volts	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	Replacement bulb
721801	721811	721821	12V	10W	70	80	42	1	112.5°	Starboard green	721965
721802	721812	721822	12V	10W	70	80	42	1	112.5°	Port red	721965
721803	721813	721823	12V	10W	70	80	42	2	135°	Stern white	721965
721804	721814	721824	12V	10W	70	80	42	2	225°	Masthead white	721965



### Speedboat Navigation Lights

- Suitable for speedboats up to 12 metres in length
- Incandescent bulb included
- Suitable for base mounting
- Visibility 1 nautical mile



721881



721882

Part no.	Volts	Watts	Overall length mm	Overall width mm	Overall depth mm	Light arc	Light colour	Body colour	Replacement bulb
721881	12V	8W	80	58	38	112.5°	Starboard green	White	721966
721882	12V	8W	80	58	38	112.5°	Port red	White	721966
721815	12V	5W	100	78	43	112.5° / 112.5°	Bicolour	Chrome	721965



Navigation light and vessel sizes are given as a guide and it may change dependant on vessel type and the area of operation.



Order the parts you need on our easy to use website. Register now for personal pricing.

## Standard Navigation Lights For Vessels Under 20 Metres


 Series 40 Navigation Lights

- Housed in a shock and impact resistant black polycarbonate body which is non-corrosive, non-magnetic and seawater resistant
- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- 2 wire cable included
- Rated IP56 for water ingress

12V	24V	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	Mount	12V Replacement bulb	24V Replacement bulb	LED Replacement bulb
721501	721501-24	25W	130	89	79.5	2	112.5°	Starboard green	Side	721972	721975	739751
721502	721502-24	25W	130	89	79.5	2	112.5°	Port red	Side	721972	721975	739752
721503	721503-24	10W	130	89	79.5	2	135°	Stern white	Side	721971	721974	739750
721504	721504-24	25W	130	89	79.5	3	225°	Masthead white	Side	721972	721975	739750
721505	-	25W	130	89	79.5	2	112.5° 112.5°	Bicolour - green red	Side	721972	721975	739750
721507	721507-24	10W	124	89	89	2	360°	All round white	Base	721971	721974	739750
721508	721508-24	25W	124	89	89	2	360°	All round red	Base	721972	721975	739752
721509	721509-24	25W	124	89	89	2	360°	All round green	Base	721972	721975	739751
721510	-	10W 25W	221	89	89	2	360° 360°	Tricolour All round white	Base	721971 721972	-	739750


 Series 41 Navigation Lights

- Housed in a shock and impact resistant black polycarbonate body, which is non-corrosive, non-magnetic and seawater resistant
- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- Suitable for side mount
- 2 wire cable included
- Rated IP56 for water ingress

12V	24V	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	12V Replacement bulb	24V Replacement bulb	LED Replacement bulb
721401	721401-24	25W	105	92	82	2	112.5°	Starboard green	721972	721975	739751
721402	721402-24	25W	105	92	82	2	112.5°	Port red	721972	721975	739752
721403	721403-24	10W	105	92	82	2	135°	Stern white	721971	721974	739750
721404	721404-24	25W	105	92	82	3	225°	Masthead white	721972	721975	739750
721405	721405-24	25W	105	92	82	2	112.5° / 112.5°	Bicolour	721972	721975	739750


 Series 55 Navigation Lights

- Housed in a shock and impact resistant black polycarbonate body, which is non-corrosive, non-magnetic and seawater resistant
- Suitable for vessels over 20 metres in length
- Incandescent bulb included
- Suitable for base flange mount (screws not included)
- Comes pre-wired with 1.5m special connection cable
- Rated IP56 for water ingress

12V	24V	Wattage	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	12V bulb	24V bulb	LED bulb
721551	721551-24	25W	201	152	152	2	112.5°	Starboard green	721972	721975	739751
721552	721552-24	25W	201	152	152	2	112.5°	Port red	721972	721975	739752
721553	721553-24	25W	201	152	152	2	135°	Stern white	721972	721975	739750
721554	721554-24	25W	201	152	152	5	225°	Masthead white	721972	721975	739750
721557	721557-24	25W	201	152	152	2	360°	All round white	721972	721975	739750
721558	721558-24	25W	201	152	152	2	360°	All round red	721972	721975	739752
721559	721559-24	25W	201	152	152	2	360°	All round green	721972	721975	739751

## KELLA® 2984 Large Navigation Lights

- Housed in a UV and impact resistant black plastic body
- Suitable for vessels under 20 metres in length
- Incandescent bulb included, which can be easily accessed and changed due to the 'snap lock' housing
- Feature a vertically hanging bulb, with contacts in the upper area of the lamp which will help prevent corrosion
- Suitable for vertical surface mount and cable entry comes through the base plate
- Rated IP55 for water ingress.



721101



721102



721103

12V black case	12V white case	24V black case	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	Mount	12V Replacement bulb	24V Replacement bulb	LED Replacement bulb
721101	721121	721101-24	25W	108	107	90	2	112.5°	Starboard green	Back	721972	721975	739751
721102	721122	721102-24	25W	108	107	90	2	112.5°	Port red	Back	721972	721975	739752
721103	721123	721103-24	10W	108	107	90	2	135°	Stern white	Back	721971	721974	739750
721104	-	721104-24	25W	108	107	90	2	225°	Masthead white	Back	721972	721975	739750
721107	721127	721107-24	10W	107	88	88	2	360°	All round white	Base	721971	721974	739750
721108	-	721108-24	25W	107	88	88	2	360°	All round red	Base	721972	721975	739752
721109	-	721109-24	25W	107	88	88	2	360°	All round green	Base	721972	721975	739751

## PERKO® 0200 Base Mount Navigation Lights

- Housed in a black polymer body
- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- Suitable for base mounting



730004



730005



730010

12V	24V	Watts	Height mm	Outside diameter mm	Visibility nautical miles	Light arc	Light colour	12V Replacement bulb	24V Replacement bulb	LED Replacement bulb
730001	730001-24	25W	124	84	2	112.5°	Starboard green	721972	721975	739751
730002	730002-24	25W	124	84	2	112.5°	Port red	721972	721975	739752
730003	730003-24	10W	124	84	2	135°	Stern white	721971	721974	739750
730004	730004-24	25W	124	84	3	225°	Masthead white	721972	721975	739750
730005	-	25W	124	84	2	112.5° / 112.5°	Bicolour	721972	721975	739750
730006	-	25W	124	84	2	360°	Tricolour	721972	721975	739750
730007	730007-24	10W	124	84	2	360°	All round white	721971	721974	739750
730008	730008-24	25W	124	84	2	360°	All round red	721972	721975	739752
730009	730009-24	25W	124	84	2	360°	All round green	721972	721975	739751
730010	-	10W 25W	222	84	2	360° 360°	Tricolour All round white	721971 721972	721974 721975	739750
730011	-	10W 25W	219	84	2 3	225° 360°	Masthead All round white	721971 721972	721974 721975	739750

## PERKO® 0200 Top Mount Navigation Lights

- Suitable for vessels under 20 metres in length
- Housed in a black polymer body
- Stainless steel mounting bracket included
- Incandescent bulb included
- Suitable for top mounting



730041



730042



730043

12V	24V	Watts	Height mm	Outside diameter mm	Visibility nautical miles	Light arc	Light colour	12V Replacement bulb	24V Replacement bulb	LED Replacement bulb
730041	730041-24	25W	122	84	2	112.5°	Starboard green	721972	721975	739751
730042	730042-24	25W	122	84	2	112.5°	Port red	721972	721975	739752
730043	730043-24	10W	122	84	2	135°	Stern white	721971	721974	739750
730044	730044-24	25W	122	84	3	225°	Masthead white	721972	721975	739750
730045	-	25W	122	84	2	225°	Bicolour	721972	721975	739750

**PERKO® 0200 Halyard Mount Navigation Lights**

- Housed in a black polymer body
- Stainless steel mounting clips included
- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- Suitable for halyard mounting

Part no.	Volts	Watts	Visibility nautical miles	Height mm	Outside diameter mm	Light arc	Light colour	12V Replacement bulb	LED Replacement bulb
730027	12V	10W	2	181	84	360°	All round white	721971	739750
730028	12V	25W	2	181	84	360°	All round red	721972	739752
730029	12V	25W	2	181	84	360°	All round green	721972	739751

**PERKO® 0170 Spherical Navigation Lights**

- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- Suitable for back mounting
- Visibility 2 nautical miles

Black case	Chrome case	White case	Volts	Watts	Height mm	Width mm	Depth mm	Visibility nautical miles	Light arc	Light colour	Replacement bulb
730151	730161	730171	12V	15W	92	105	50	2	112.5°	Starboard green	730921
730152	730162	730172	12V	15W	92	105	50	2	112.5°	Port red	730921
730153	730163	730173	12V	10W	92	105	50	2	135°	Stern white	730922
730154	730164	730174	12V	15W	92	105	50	3	225°	Masthead white	730921
730155	730165	-	12V	15W	92	105	50	2	112.5° / 112.5°	Bicolour	730921

**PERKO® Bicolour Navigation Lights**

- Suitable for vessels under 12 metres in length
- Incandescent bulb included

Part no.	Volts	Watts	Height mm	Length mm	Width mm	Visibility nautical miles	Light arc	Case colour	Replacement bulb
730402	12V	10W	25	102	79	1	112.5° / 112.5°	Chromed brass	730920
730415	12V	10W	22	60	60	1	112.5° / 112.5°	Chromed brass	730920
730435	12V	10W	16	83	59	2	112.5° / 112.5°	Chromed zinc alloy	730920
730445	12V	10W	21	89	57	2	112.5° / 112.5°	Black	730920
730455	12V	10W	21	89	57	2	112.5° / 112.5°	White	730920
730465	12V	10W	21	89	57	2	112.5° / 112.5°	Chromed bronze	730920

**PERKO® Spreader / Masthead Light**

- Incorporates a masthead / steaming navigation lamp with a halogen deck spreader lamp
- Certified by the USCG for use on sail or power driven vessels under 20 metres in length
- Black plastic housing
- CE approved

Part no.	Volts	Model	Height mm	Width mm	Visibility Nautical miles	Projection mm	Replacement bulb navigation	Replacement bulb spreader
730170	12V	0170BMDDP1	178	105	3	121	730921	721939

## PERKO® 0965 Stern and Steaming Navigation Lights

- Housed in a chrome plated brass body with a black polymer base
- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- Suitable for base mounting

Part no.	Volts	Watts	Height mm	Outside diameter mm	Visibility nautical miles	Light arc	Light colour	Replacement bulb
730413	12V	10W	22	60	2	135°	Stern white	730920
730414	12V	10W	22	60	2	225°	Masthead white	730920



## PERKO® 0228 Green and Red Navigation Side Lights

- Housed in chrome plated zinc alloy bodies with black polymer bases
- Pack contains 1 x port red navigation light and 1 x starboard green navigation light
- Suitable for vessels under 20 metres in length
- Incandescent bulb included
- Suitable for base mounting

Part no.	Volts	Watts	Height mm	Length mm	Visibility nautical miles	Light arc	Light colour	Replacement bulb
730430	12V	10W	16	83	1	112.5°	1 x Starboard green 1 x Port red	730920



## PERKO® 0170 All Round Navigation Light

- Housed in a black polymer body
- Suitable for vessels under 20 metres in length
- Comes with a 12V incandescent bulb included
- Suitable for a fixed base mounting

Part no.	Volts	Wattage	Overall height mm	Base dimensions mm	Visibility Nautical miles	Light arc	Replacement bulb
730107	12V	11W	130	25 x 67	2	360°	730962



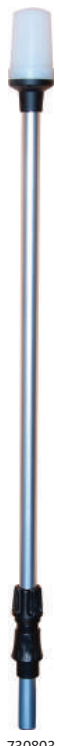
## Pole Lights and Accessories

There are many different types of Perko pole lights available. Inland and sea going lens styles and multi-purpose, multi function lights - Perko is the number one choice for your pole light. Don't forget - All Perko pole lights have a five year leisure warranty.

## PERKO® 1400 Alpha Pole Lights

Part no.	Length mm (inches)	Pole diameter	Visibility nautical miles	Replacement bulb
730802	610 (24")	3/4"	2	730962
730803	762 (30")	3/4"	2	730962
730804	914 (36")	3/4"	2	730962
730805	1067 (42")	3/4"	2	730962
730806	1219 (48")	3/4"	2	730962
730807	1372 (54")	3/4"	2	730962

- Universal replacement all-round white light
- Designed to fit most other manufacturer's bases
- Traditional frosted globe allows for all round visibility
- Design also provides limited cockpit illumination
- For use on sail and power driven vessels under 20m in length
- CE certified
- Pole rake 0°
- 12V bulb included
- Anodised



## Pole Light Bases

Part no.	Type	Rake	Material
730702	Base	0°	Chromed brass
730704	Base	0°	Stainless steel
730712	Base	5°	Chromed brass
730732	Base	16°	Chromed brass
730742	Base	5°	Chromed brass
730752	Base	5°	Chromed brass
730851	Clip	-	Black plastic



## LED Light Bulbs

Light Emitting Diodes (LED) are bulbs without a filament that have low power consumption and a long life span. LED bulbs use up to 90% of the energy provided in the generation of light, while some incandescent light bulbs only use around 20% of the electric current for production of light where the other 80% of the energy is wasted as heat.

LED's have a lifespan of up to 70,000 hours which is extremely high when compared to standard incandescent bulbs, which only have a lifespan of around 1,000 hours. So once you install an LED bulb you won't have to worry about replacing the bulbs for a very long time. Another big advantage of an LED is they do not have a filament they are less affected by vibrations which makes them ideal for boating.

LED bulbs come with a variety of contact fittings, here is what we offer:

- Festoon Bulbs - Double ended bulbs
- BA9s - Single contact, 9mm diameter base, 2 bayonet fittings
- BA15s - Single contact, 15mm diameter base, 2 bayonet fittings
- BA15d - Double contact, 15mm diameter base, 2 bayonet fittings
- BAY15d - Double contact, 15mm diameter base, 2 offset bayonet fittings
- G4 - Two pin bulb, 4mm distance between pins



Part no.	Type	Length x diameter mm	No. of LEDs	Watts	Voltage (V) DC	Light colour
739710	Festoon	32 x 13	12	1W	10-30V	Warm White
739720	Festoon	44 x 22	30	2W	10-30V	Warm white
739730	Aqua Signal festoon	43 x 13	12	1W	10-30V	Warm white
739740	Aqua Signal festoon	42 x 22	30	2W	10-30V	Warm white
739651	BA9s	25 x 10	1	0.2W	12V	White
739652	BA9s	25 x 10	1	0.4W	24V	White
739800	BA9s	33 x 13	9	1.4W	10-30V	White
739802	BA15d	55 x 22	18	2.5W	10-30V	White
739808	BA15s	51 x 25.4	15	1.4W	10-30V	White
739631	BA15s	48 x 26	1	1W	12V	White
739641	BA15d	30 x 15	3	1W	12V	White
739810	BA15d	50 x 26	3	1.4W	10-30V	Cool white
739812	BA15d	50 x 26	3	1.4W	10-30V	Warm white
739750	BAY15d	67 x 25	60	3.6W	10-30V	Warm white
739751	BAY15d	67 x 25	60	3.6W	10-30V	Green
739752	BAY15d	67 x 25	60	3.6W	10-30V	Red
739760	BAY15d	45 x 22	30	3.2W	10-30V	Warm white
739761	BAY15d	45 x 22	30	3.2W	10-30V	Green
739762	BAY15d	45 x 22	30	3.2W	10-30V	Red
739870	Cluster G4	23 diameter	6	1W	10-30V	Warm white
739871	Cluster G4	23 diameter	6	1W	10-30V	Cool white
739873	Cluster G4	30 diameter	10	1.6W	10-30V	Warm white
739874	Cluster G4	30 diameter	10	1.6W	10-30V	Cool white
739876	Cluster G4	44 diameter	15	2.3W	10-30V	Warm white
739877	Cluster G4	44 diameter	15	2.3W	10-30V	Cool white
739862	Cluster G4	36 diameter	15	2.3W	10-30V	Cool white
739864	Cluster G4	40 diameter	18	2.5W	10-30V	Cool white
739866	Cluster G4	44 diameter	21	2.8W	10-30V	Cool white
739883	Tower G4 pin	13 diameter	15	1.4W	10-30V	Warm white
739884	Tower G4 pin	13 diameter	15	1.4W	10-30V	Cool white
739886	Tower G4 pin	18 diameter	18	2.5W	10-30V	Warm white
739887	Tower G4 pin	18 diameter	18	2.5W	10-30V	Cool white



# PUMPS

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Bilge Alarms  
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 Washdown Pumps  
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## How we can help you pump your bilge....

We offer submersible bilge pumps, manual bilge pumps, motor driven impeller pumps, diaphragm pumps, automatic bilge pumps, clutched pumps and of course controls, switches, alarms, hose, clips and fittings. ISO 15083 gives the following minimum pump performance requirements at 1 metre head, which offers a useful guide as to which output bilge pump to install.

Boat length	Minimum flow lpm	Minimum flow lph
Less than or equal to 6 metres	10	600
Longer than 6 metres but less than 12 metres	15	900
Longer than 12 metres	30	1800

Please  
note

*This is just a useful guide, flows shown are a minimum requirement. Any vessel may require more pumping performance or more pumps. It is often prudent to fit multiple pumps possibly at different levels to provide back up when required.*

### SHURFLO® Bilge Pumps (Non-Automatic)

Smart. Reliable. Efficient. Everything you're looking for in a bilge pump. Whether you are planning an ocean voyage or cruising the waterways, you can rest assured with a SHURflo bilge pump on board. SHURflo bilge pumps provide flow ranges from 1438lph up to 7569lph, controlling and managing water intake within the bilge by transferring and removing excess water.

Quality bilge pumps you can trust. SHURflo's bilge pumps are built for the harsh marine environment to withstand the toughest conditions.

Float switches on pages 215-216

- Anti-airlock
- Tough nylon housing
- Ignition protection
- Water cooled motors extends life
- CE listed
- 3 year limited warranty



509560

#### SHURflo 380 - 1000 US GPH Bilge Pumps

Easy to install with a quick-snap base plate. Supplied with 0.9 metres (3ft) tinned wire assembly.

Part no.	Model	Volts	Amp Draw	Flow rate lph (US gph)	Port size outlet mm (inch)	Base diameter mm	Dimensions (h x w) mm
509560	355-020-10	12V	1.7A	1438 (380)	19 (3/4")	86	114 x 95
509562	355-010-10	12V	1.8A	1893 (500)	19 (3/4")	86	114 x 95
509564	355-110-10	12V	3.2A	2650 (700)	19 (3/4")	86	114 x 95
509566	355-100-10	12V	3.2A	3785 (1000)	28 (1-1/8")	86	114 x 95



509572

#### SHURflo 1500 - 2000 US GPH Bilge Pumps

Can be installed quickly and efficiently with the patented swivel base.

Supplied with 1.8 metres (6ft) tinned wire assembly. Flow rate is at 6ft head.

Part no.	Model	Volts	Amp draw	Flow rate lph (US gph)	Port size outlet barb mm (inch)	Base diameter mm	Dimensions (h x w) mm
509570	358-000-10	12V	8A	5677 (1500)	28 (1-1/8")	136	184 x 154
509571	358-100-10	24V	4A	5677 (1500)	28 (1-1/8")	136	184 x 154
509572	358-010-10	12V	10A	7569 (2000)	28 (1-1/8")	136	184 x 154
509573	358-110-10	24V	5A	7569 (2000)	28 (1-1/8")	136	184 x 154

Please  
note

*These cannot run dry.*



### SuperSub 500 Submersible Bilge Pump (Non-Automatic)

- Narrow low profile design, ideal for confined spaces
- Easy to clean and leaves the bilge almost dry
- Suitable for leisure craft (If used as a sole or primary bilge pump it is only suitable for vessels up to 24 metres)
- Comes complete with a non-return valve
- Conforms to ISO 8849 and ISO 15083 standards
- Ignition protected per ABYC and USCG standards
- CE certified directive 89/336/EEC - EMC compliant



504235

Part no.	Model	Volts	Amp draw	Flow rate lph (US gph)	Pump hose size mm (inch)	Height mm	Width mm	Depth mm
504235	500	12V	2.4A	1893 (500)	19 (3/4")	54	183	75

## Bilge Pumps (Non-Automatic)

Rule non-automatic pumps offer traditional operation activated by a float switch or panel switch. Removal of the motor also allows cleaning of the strainer and impeller area in the event that the pump becomes clogged.

- Pumps and switches are stand alone products
- Compact, efficient, long life motors
- New mercury free float switches (see page 215)
- Limited 3 year warranty

Part no.	Model	Volts	Max amp draw	Output lph (US gph)	Maximum outlet mm (inch)	Dimensions mm
504150	24	12V	2.5A	1363 (360)	19 (3/4")	90 x 60
504152	25D	12V	2.5A	1893 (500)	19 (3/4")	90 x 60
504154	26D	24V	1.3A	1893 (500)	19 (3/4")	90 x 60
504170	20F	12V	4A	3028 (800)	19 (3/4")	100 x 74 x 74
504172	20R	12V	4A	3028 (800)	19 (3/4")	95 x 60
504174	21R	24V	2A	3028 (800)	19 (3/4")	95 x 60
504182	27D	12V	5A	4164 (1100)	28 (1-1/8")	110 x 60
504184	28D	24V	2A	4164 (1100)	28 (1-1/8")	110 x 60
504102*	02	12V	7A	5678 (1500)	28 (1-1/8")	153 x 100
504103*	02-6	12V	7A	5678 (1500)	28 (1-1/8")	153 x 100
504104*	03	24V	3.5A	5678 (1500)	28 (1-1/8")	153 x 100
504112*	10	12V	12A	7571 (2000)	28 (1-1/8")	155 x 105
504114*	12	24V	6A	7571 (2000)	28 (1-1/8")	155 x 105
504122*	14A	12V	20A	14006 (3700)	38 (1-1/2")	180 x 135
504124*	16A	24V	10A	14006 (3700)	38 (1-1/2")	180 x 135
504132*	56D	12V	20A	15142 (4000)	50 (2")	197 x 135
504134*	56D-24	24V	10A	15142 (4000)	50 (2")	197 x 135

\* These are not suitable for the below mounting bracket

### 504199

Mounting bracket for round Rule pumps where bottom mounting is impractical. Allows side mounting of pump to vertical surfaces. Suitable for Rule 360, 500, 800 and 1100 round Rule pumps.



## Bilge Pumps (Automatic)

The eco-friendly Rule Mate series of bilge pumps feature a solid state water sensing technology that eliminates the need for a separate float switch. When water enters the bilge and reaches a certain height, 70mm (2-3/4"), a sensor turns the pump on. After the water is pumped out, another sensor shuts the pump off. The sensors unique 'field effect' technology is eco-friendly because they only sense the dielectric constant of water. In the event of an on board oil spill, straight motor oil that enters the bilge will not turn the pump on. The result is the most technically advanced and eco-friendly bilge pump available in the market place.

- All-in-one pump and switch - no float switch required
- Pump turns on when water level rises and shuts off when water is removed
- Will not pump oil - Straight motor oil that enters the bilge will not turn the pump on
- Snap-off strainer for easy cleaning
- Anti-fouling impeller
- The new Rule Mate pumps are available in 500, 750 and 1100 GPH
- The original Rule Mate pumps are available in 1500 and 2000 GPH
- Limited 3 year warranty

Part no.	Model	Volts	Max amp draw	Maximum output lph (US gph)	Outlet mm (inch)	Dimensions mm (l x w x h)
504158*	RM500A	12V	2.5A	1893 (500)	19 (3/4")	152 x 83 x 114
504178*	RM750A	12V	4A	2839 (750)	19 (3/4")	152 x 83 x 114
504179*	RM750A-24	24V	2A	2839 (750)	19 (3/4")	152 x 83 x 114
504188*	RM1100A	12V	5A	4164 (1100)	28 (1-1/8")	152 x 83 x 114
504189*	RM1100A-24	24V	2A	4164 (1100)	28 (1-1/8")	152 x 83 x 114
504108	RM1500	12V	7A	5678 (1500)	28 (1-1/8")	150 x 110 x 150
504118	RM2000	12V	12A	7571 (2000)	28 (1-1/8")	150 x 110 x 150
504119	RM2000-24	24V	6A	7571 (2000)	28 (1-1/8")	150 x 110 x 150

\* Supplied with 90° and straight adaptor.



Control panels on page 215



504232



504237



## SuperSub Smart Bilge Pumps (Automatic)

The award winning Whale SuperSub automatic submersible bilge pumps eliminate the need for a separate float switch to activate the pump. Once power is supplied to the bilge pump, starting and stopping is completely automatic.

- Narrow low profile design, ideal for confined spaces
- Can be fitted into compartments where height restriction is an issue
- Easy and simple to install
- Easy to clean and leaves the bilge almost dry
- Integrated solid state switch ensures power consumption is minimised and that there are no moving parts
- Suitable for leisure craft (If used as a sole or primary bilge pump it is only suitable for vessels up to 24 metres)
- Comes complete with a non-return valve
- Conforms to ISO 8849 and ISO 15083 standards
- Ignition protected per ABYC and USCG standards
- CE certified directive 89/336/EEC - EMC compliant

Part no.	Model	Volts	Amp draw	Flow rate lph (US gph)	Pump hose size mm (inch)	Height mm	Width mm	Depth mm	Non return valve
504232	1100	12V	4.3A	3960 (1046)	25-28 (1"-1-1/8")	54	240	75	Yes
504234	1100	24V	2.2A	3960 (1046)	25-28 (1"-1-1/8")	54	240	75	Yes
504237	650	12V	3.4A	2460 (650)	19 (3/4")	54	212	75	No



## Pre-Wired Remote Mounted Bilge Pump (Automatic)

The Whale Gulper IC is a remote mounted electric bilge pump with intelligent control electronics built in. These pumps reduce the need for four separate components and removes the hassle when installing and maintaining the unit. At the heart of every Whale IC product lays innovative electronic control circuitry. This enables IC sensor accessories to communicate directly with IC pumps to control their performance and to switch on and off automatically.



504837

- Easy inspection and protected by mounting up to 4 metres away from the bilge area
- An integrated non-choke valve means no filter to maintain and clean
- Easy to install even on uneven surfaces
- Secure fit with new wrap around mounting feature
- Self-primers and runs dry
- Three products in one: Strainer, non-return valve and electronic control switch
- Fits in confined bilge spaces
- Fit and forget, requires no maintenance
- Replacement pump head kit and diaphragm - **504839**

Part no.	Model	Volts	Amp draw	Flow rate lph (US gph)	Pump hose size mm (inch)	Strainer hose size mm (inch)	Length mm	Width mm	Depth mm
504837	SI8224B	12V	8A	1140 (301)	19-25 (3/4"-1")	19 (3/4")	280	198	120

## Jabco Bilge Pumps (Automatic Computerised Operation)

The Jabco automatic submersible bilge pumps eliminate the need for a separate float switch to activate the pump. Once power is supplied to the bilge pump, starting and stopping is completely automatic. These pumps turn on and check for water every 2-1/2 minutes, during this check the pump runs for approximately 1 second and checks for resistance or drag against the impeller. If resistance is encountered, it will run until water is no longer present. Thereafter the automatic bilge pump resumes the 2-1/2 minute check cycle. The automatic bilge pump can be started at any time by turning the power off; waiting 5 seconds and then turning the power back on. The pump will start immediately and pump until the water is removed.



504156



504116

- Light weight, compact pump with a tough plastic body and integral strainer
- Features two leads, an automatic (brown) and a manual override (brown with a white stripe)
- Quick release strainer allows for rapid cleaning of the submersible bilge pump internal components
- Recommended for discharge heads up to a maximum of 2 metres
- Meets ISO8846 marine (ignition) and ISO8849 marine (bilge pump) standards

Part no.	Model	Volts	Amp draw	Maximum flow rate lph (US gph)	Outlet mm (inch)	Dimensions mm
504156	25S	12V	2.5A	1893 (500)	19 (3/4")	100 x 61
504157	25S-24	24V	1.5A	1893 (500)	19 (3/4")	100 x 61
504176	20RS	12V	2.8A	3028 (800)	19 (3/4")	108 x 61
504186	27S	12V	3.3A	4164 (1100)	28 (1-1/8")	115 x 61
504106	51S	12V	9A	5678 (1500)	28 (1-1/8")	197 x 120
504116	53S	12V	15A	7571 (2000)	28 (1-1/8")	197 x 120

## rule LoPro Bilge Pump

The LP900D submersible bilge pump features a fully rotating discharge body for installation flexibility, allowing horizontal or vertical mounting.

Part no.	Model	Volts	Amp draw	Flow rate at 0 head lpm	Outlet mm (inch)	Dimensions mm (l x w x h)
504164	LP900D	12V	4A	56	19 (3/4"), 25 (1"), 28 (1-1/8")	193 x 38 x 53



504164

## rule LoPro Bilge Pump (Automatic)

The LP900D submersible bilge pump features a fully rotating discharge body for installation flexibility, allowing horizontal or vertical mounting. This bilge pump also features the following 3 operation modes:

**High water mode:** The pump starts when the water level reaches 50mm (2")

**Low water mode:** Turn the motor cartridge 180° and the sensor is at 33mm (1.3")

**Full Electronic mode:** The pump automatically turns on every 2.5 minutes to check for water, if water is detected the pump runs until the water is gone.

Part no.	Model	Volts	Amp draw	Flow rate at 0 head lpm	Outlet mm (inch)	Dimensions mm (l x w x h)
504166	LP900S	12V	4A	56	19 (3/4"), 25 (1"), 28 (1-1/8")	237 x 38 x 59



504166

## JABSCO Diaphragm Self Priming Bilge Pump

- Robust, single diaphragm and joker valves make this pump ideal for sink and shower drain applications
- Multi-positional ports
- Design allows extended dry running, and can self prime up to 3 metres vertical lift
- Maximum recommended head is 6 metres
- Extremely quiet
- Rated for up to 30 minutes continuous running
- No strainer is required
- Jabsco service kit for 50880 series pumps - 504485

Part no.	Model	Volts	Fuse size	Flow rate lpm	Hose size mm (inch)	Height mm	Width mm	Depth mm
504482	50880-1000	12V	10A	16	19 (3/4")	294	159	132
504484	50880-1100	24V	5A	16	19 (3/4")	294	159	132



504482

## JABSCO Diaphragm Bilge and Shower Pump

- Maximum recommended total head 3 metres
- Quiet running with shielded drive
- Single diaphragm design allows extended dry running
- Jabsco 'Pump Guard' strainer included with pump
- Self-priming up to 2 metre vertical lift

Part no.	Model	Volts	Fuse size	Flow rate lpm	Hose size mm (inch)	Height mm	Width mm	Length mm
509752	37202-2012	12V	10A	13	19 (3/4")	150	190	130



509752

## Whale Orca Bilge Pumps

Range of compact and powerful pumps suitable for disposing of bilge water available with a wide selection of flow rates. The Whale Orca range of pumps are compact in design but still feature a large surface area for maximum bilge water exposure.

- Simple installation
- CE Certified and meets ISO8849 marine specifications
- Robust fuel resistant ABS housing (which is easily released with two push buttons to allow easy access to the motor cartridge and filter area)

Part no.	Model	Volts	Amp draw	Flow rate lpm	Outlet size mm (inch)	Height mm	Width mm	Depth mm
504240	BE0500	12V	1.5A	32	19 (3/4")	83	102	78.5
504241	BE0950	12V	5A	59	25 (1") or 28 (1-1/8")	109	135	103
504242	BE1450	12V	5A	82	25 (1") or 28 (1-1/8")	129	168	121
504244	BE1454	24V	2.5A	82	25 (1") or 28 (1-1/8")	129	168	121
504245	BE2002	12V	10A	126	28 (1-1/8")	165	144	120.5
504246	BE2004	24V	5A	126	28 (1-1/8")	165	144	120.5
504247	BE3002	12V	18A	189	32 (1-1/4")	195	166	132
504248	BE3004	24V	9A	189	32 (1-1/4")	195	166	132



504246



504242

**504256**  
Float switch available, suitable for bulkhead or hull mounting.





## Electric Motor Bilge Pumps

- Reliable, self-priming pumps
- Suitable for a wide variety of duties
- Bronze pump body



504432



504452

Part no.	Model	Volts	Fuse size	Max. flow lpm @ 0 head	Port size BSP female	Replacement Impeller
504432	Water puppy 2000	12V	15A	32	1/2" / 1" hose	JAB-6303-0001-P
504434	Water puppy 2000	24V	10A	32	1/2" / 1" hose	JAB-6303-0001-P
JAB-23920-2423	Utility puppy 2000	12V	15A	30	3/4"	JAB-7273-0003
JAB-23920-2523	Utility puppy 2000	24V	10A	30	3/4"	JAB-7273-0003
504422	Maxi puppy 3000	12V	25A	45	1/2" / 1" hose	JAB-7273-0003
504424	Maxi puppy 3000	24V	15A	45	1/2" / 1" hose	JAB-7273-0003
504452	Utility puppy 3000	12V	25A	50	3/4"	JAB-7273-0003
504454	Utility puppy 3000	24V	15A	50	3/4"	JAB-7273-0003



*The utility puppy is designed to ensure the impeller remains wet - allowing 'dry run' for up to 10 minutes. Impeller electric pumps must NOT be mounted vertically where the impeller housing will be above the motor.*



## Electric Motor Bilge Pumps

- Reliable, self-priming pumps
- Suitable for a wide variety of duties
- Bronze pump body



504322

Part no.	Model	Volts	Fuse size	Max. flow lpm @ 0 head	Port size BSP female	Replacement impeller
504312	F3B-19	12V	15A	21	3/8"	JP-09-1052S-9
504314	F3B-19	24V	8A	21	3/8"	JP-09-1052S-9
504322	F4B-19	12V	25A	48	1/2"	JP-09-824P-9
504324	F4B-19	24V	15A	48	1/2"	JP-09-824P-9



*Impeller electric pumps must NOT be mounted vertically where the impeller housing will be above the motor.*



## Electric Clutch Pumps - For Bilge / Deck Wash

For safety and ease of operation, most operators choose pumps with electromagnetic clutches that can be simply engaged / disengaged by a switch on the dashboard. All listed pumps feature a mechanical seal. Spare field coils, manual clutch versions and other sizes are available, please see our website [www.asap-supplies.com](http://www.asap-supplies.com).



505232



505251

Part no.	Model	Volts	Max. flow @ 1500 RPM lpm	Port size BSP female	Replacement impeller	Pulley description
505230	50580-2001	12V	80	1"	JAB-17937-0001-P	Twin A section 13mm
505231	50580-2101	24V	80	1"	JAB-17937-0001-P	Twin A section 13mm
505232	50580-2201	12V	80	1"	JAB-17937-0001-P	Single B section 16mm
505233	50580-2301	24V	80	1"	JAB-17937-0001-P	Single B section 16mm
505240	50080-2001	12V	80	1"	JAB-17937-0001-P	Twin A section 13mm
505250	50200-2011	12V	195	1-1/2"	JAB-17935-0001	Twin A section 13mm
505251	50200-2111	24V	195	1-1/2"	JAB-17935-0001	Twin A section 13mm
505252	50200-2211	12V	195	1-1/2"	JAB-17935-0001	Single B section 16mm
505253	50200-2311	24V	195	1-1/2"	JAB-17935-0001	Single B section 16mm



*If possible, raise the discharge pipe above pump outlet port as this will retain fluid and keep the impeller wet and improves impeller life.*

## rule Bilge Pump Control Panels

Allows manual control of the bilge pump from a main electrical switch panel. Provides two options (On / Off). The switch panel is made from stainless steel finished in black satin.

Part no.	Model	Volts	Max. current	Height mm	Width mm	Settings	Type
504191	49	12V / 24V	20A	50	57	2	On / Off



504191

Allows 3 settings for control of any bilge pump with an automatic float switch. The switch panel has a built-in fuse holder (fuse not supplied) and an internally lit rocker switch with 3 positions (Automatic, Off or Manual). The panel has a 'fail-safe' spring to return to the 'off' position from the 'manual' position. It is made from black plastic.

Part no.	Model	Volts	Max. current	Height mm	Width mm	Settings	Type
504192	43	12V	20A	60	73	3	Manual / Off / Auto
504193	44	24V	10A	60	73	3	Manual / Off / Auto



504193

## rule Air Operated Bilge Pump Eco Switches

Remote mounted bilge switches operate the bilge pump through the use of compressed air. Mount to the bulkhead high up above the bilge water level, while a tube runs down and connects to a plastic bell which sits in the water. As the bell fills up, the air in the bell and tube compresses and once a certain level is reached the switch operates the bilge pump.

- No switch electronics are submerged
- Safe, reliable and accurate
- Same principle is used in most washing machines

Part no.	Model	Volts	Max. current	Height mm	Width mm	Depth mm	Tube length metres
504752	39	12V	20A	155	75	48	3
504754	39-24	24V	10A	155	75	48	3



504752

## rule Rule-A-Matic Float Switches

Extremely popular narrow design Jabsco Rule float switch.

- Ideal for all bilges including narrow bilge applications
- Design prevents rapid on / off cycling
- Contains no mercury

Part no.	Model	Volts	Max. current	Height mm	Width mm	Depth mm	Cover
504793	35A	12V / 24V	14A	110	40	105	No
504798	40A	12V / 24V	20A	120	60	90	Yes



504793



504798

## rule High Bilge Water Level Alarms

These Rule bilge alarms automatically detect when bilges are filled with water. Consists of a non-mercury float switch (for more information, see below) and an in-dash gauge that features both a visual and an audible 85 dB alarm.

Part no.	Model	Volts	Max. Amps	Height mm	Width mm	Depth mm	Gauge diameter mm
710242	33ALA	12V	14A	120	60	90	60
710244	32ALA	24V	14A	120	60	90	60



710242

## SHURflo® Automatic Bilge Pump Float Switches

These float switches provide the ultimate in reliability for your boat. The float switch can be installed with a SHURflo bilge pump to ensure that your bilge stays dry when in operation. SHURflo float switches can be used with any kind of pump and also with water bilge and other alarm systems.

- Manufactured in corrosion resistant and explosion proof material
- Contains no mercury
- Remote or direct mounting
- 0.9 metres (3ft) tinned wire assembly
- Ignition protected
- 3 year limited warranty

Part no.	Model	Volts	Max. current	Height mm	Width mm	Depth mm	Cover
509600	359-111-30	12V / 24V	12A	112	92	32	No
509601	359-111-40	12V / 24V	12A	130	102	71	Yes



509600



509601



508321



## Rolling Ball Float Switch

- Designed to simply convert most bilge pumps into automatic operation
- Easy attachment to Johnson bilge pumps
- Ball bearing actuated
- Contains no mercury
- Switches on at 57mm (2-1/4") and switches off at 20mm (3/4") of water
- 3 year limited warranty

Part no.	Model	Volts	Max. current	Height mm	Width mm	Depth mm
508321	2601	12V / 24V	15A	100	80	50



508324



## Ultima Electronic Bilge Pump Switch

Uses new technology which can detect disruptions caused by water and fluids. The detector cells used never come into contact with the water and are corrosion resistant. Automatically activates at a fluid level of 50mm (2") and deactivates at 20mm (3/4").

- 8 second delay to ensure that water level is true
- Two wire device
- Fully submersible
- Suitable for all pumps up to 20A draw
- Supplied with 30" copper strand tin coated wire
- Activation at 50mm, deactivation at 20mm of fluid

Part no.	Model	Volts	Max. amps	Height mm	Width mm	Depth mm
508324	36303-10-1901	12V / 24V	20A	62	85	29



## Bilge Alert Water Level Alarm Systems

Uses a patented Mirus field effect detector cell which produces a micro-electrical field that detects disruptions caused by water and fluids. When activated the sensor will trigger a 100dB audible alarm plus a visual LED alarm on the control panel.

Has a three way rocker switch, which allows alarm to be tested, turned off and armed. Full wiring instructions are included.



710228

- Mercury free
- No moving parts
- 100dB alarm and visual LED alarm
- Meets ISO 8846 standards
- Wire size: 16 Ga. tin coated
- Wire length: 762mm (30")

Part no.	Volts	Max. Amps	Panel width mm	Panel height mm
710227	12V	20A	63	50
710228	24V	20A	63	50



504859



## Automatic Bilge Water Sensor Switch

504859

Automatically senses the water level in the bilge and operates the bilge pump accordingly. When water levels reach 51mm (2") of water, the sensor turns the bilge pump on and will continue pumping until the water level drops below 13mm (1/2"). The sensor is made from nylon, making it suitable for withstanding high temperatures. This water sensor can be easily mounted on the base or on its side to suit your requirements.

Suitable for 12 or 24V

## SEAFLOW Bilge Pump Hose

- Ideal for installations with submersible bilge pumps
- Suitable for transferring bilge water, as well as the debris that comes with it
- Very flexible to fit awkward installations and allow for bends in the line
- Made from a soft PVC grey cover with a hard PVC inner spiral, making it shock resistant
- The inside wall is smooth despite the reinforcement and is shock resistant due to the construction
- Temperature range: -15°C to +60°C
- Available in coils or per metre



504528

Per metre	30 metre coil	I.D. mm (inch)	O.D. mm	Bend radius mm	Vacuum (m water)	Working pressure bar (psi)	Burst pressure bar (psi)	Stainless steel 316 hose clip to suit
504519	504519-30	19 (3/4")	25	28	5	1 (14.5)	5 (73)	416204
504525	504525-30	25 (1")	30	35	5	0.5 (7.25)	5 (73)	416206
504528	504528-30	28 (1-1/8")	34	40	5	0.5 (7.25)	5 (73)	416207
504532	504532-30	32 (1-1/4")	38	45	5	0.5 (7.25)	2.5 (36)	416207
504538	504538-30	38 (1-1/2")	44	50	5	0.5 (7.25)	2.5 (36)	416208

More hose available, please see the Hose section, page 175.



## MK5 Manual Bilge Pumps

- Hand operated bilge pump
- Versatile design
- High output
- Nitrile diaphragm pump
- Suitable to pump bilge water, saltwater or diesel
- Constructed from a robust glass filled polypropylene body
- Glass filled nylon and acetal operating lever
- Reliability is ensured with non choke valves and a fully enclosed diaphragm
- Inspection hatch for quick and easy maintenance of the pump



Part no.	Model	45 strokes per minute lpm	70 strokes per minute lpm	Hose connections mm (inch)	Overall length mm	Pump body width mm	Pump body height mm	Mount	Through deck mounting kit with lid	Repair kit
506220	BP0510	42	66	38 (1-1/2")	481	187	139	Universal / bulkhead / through deck	506227	506229
506224	MH5550	64	104	38 (1-1/2")	630	292	203	Bulkhead	506227	506229 (x 2)
506225	MH5560	64	104	38 (1-1/2")	630	292	203	Through deck mount	506227	506229 (x 2)



## Gusher 30 Manual Bilge Pumps

This twin nitrile diaphragm ensures that the pump continues working if one is damaged.

- High output
- Double action pump
- 5 year limited warranty
- Nitrile valves and diaphragms
- Can pump oily bilge water; effluent and diesel
- No tools required for inspection and cleaning
- Lloyd's and MCA certified
- Body is constructed from a powder coated, marine grade diecast aluminium alloy



Part no.	Model	45 strokes per minute lpm	70 strokes per minute lpm	Hose connections mm (inch)	Overall length mm	Pump body width mm	Pump body height mm	Mount	Through deck kit	Service kit
506331	BP3000	75	117	38 (1-1/2")	750	235	330	Deck / floor	506335	506338
506332	BP3010	75	117	38 (1-1/2")	720	235	330	Bulkhead	506335	506338



## Gusher Urchin Bilge and Waste Water Pump

- Compact design for confined spaces
- Ideal for small to medium sized boats
- Easy access for maintenance
- Robust lightweight design
- Maximum priming height: 4 metres (13.5 ft)
- Maximum head: 3 metres (10 ft)



Part no.	Model	45 strokes per minute lpm	70 strokes per minute lpm	Hose connections mm (inch)	Overall length mm	Pump body width mm	Pump body height mm	Mounting type	Plastic deck plate	Repair kits*
506310	BP9005	37.5	55	25 + 38 (1" + 1-1/2")	280	139	139	On deck	506357	506395 (neoprene) 506396 (nitrile)
506312	BP9021	37.5	55	25 + 38 (1" + 1-1/2")	354	139	139	On deck	506357	506395 (neoprene) 506396 (nitrile)
506313	BP9013	37.5	55	25 + 38 (1" + 1-1/2")	348	139	139	Bulkhead / through deck	506357	506395 (neoprene) 506396 (nitrile)

\*Neoprene is for water applications, nitrile is for fuel applications.



## Manual Pumps



506342



506351



506201

Part no.	Model	Model no.	45 strokes per minute lpm	70 strokes per minute lpm	Hose connections mm (inch)	Overall length mm	Pump body width mm	Pump body height mm	Mount	Repair kit*	Through deck kit
506201	Compac 50	BP0350	32	35	25 (1")	360	196	120	Through deck	506209	-
506341	Gusher 10 MK3	BP3708	41	65	38 (1-1/2)	436	204	200	Standard	506349 (neoprene) 506348 (nitrile)	506317
506342	Gusher 10 MK3	BP3740	41	65	38 (1-1/2")	495	204	200	Through deck / bulkhead	506349 (neoprene) 506348 (nitrile)	506317
506351	Gusher Titan	BP4402	67	105	38 (1-1/2)	438	237	193	Standard bilge and waste water pump	506359 (neoprene) 506358 (nitrile)	506357
506352	Gusher Titan	BP4410	67	105	38 (1-1/2)	482	237	193	Through deck / bulkhead bilge and waste water pump	506359 (neoprene) 506358 (nitrile)	506357

\*Neoprene is for water applications, nitrile is for fuel applications.



## Smartbail Manual Bilge Pump



506367

- Through-bulkhead - ideal for low profile installation through bulkhead
- Reduced installation time
- One complete assembly - no additional fittings required
- Foam seal - no need for silicone
- Compact size is ideal where space is limited
- Quick connect safe - release ports
- Lightweight
- Integral, robust handle - instantly ready to use
- Comfortable grip handle
- Patented diaphragm design ensures easy pump action
- Ease of servicing
- Safety assurance - complies with ISO 15083 standard

Part no.	Model no.	Port size mm	Flow rate lpm 25mm (1") port		Flow rate lpm 38mm (1-1/2") port		Whale diaphragm kit
			45 strokes	70 strokes	45 strokes	70 strokes	
506367	BP5012	25 + 38 (1" + 1-1/2")	38.5	60	43.5	67.7	506369



## MK5 Manual Waste Pumps



507220

- Suitable for pumping waste materials
- Constructed from high quality ABS plastic which keeps in all smells, yet remains lightweight
- Large non-choke valves that will not block
- Waste pump is supplied with a removable handle

Part no.	Model no.	45 strokes per minute lpm	70 strokes per minute lpm	Hose connections mm (inch)	Body length mm	Body width mm	Body height mm	Mount
507220	BP0527	42	66	38 (1-1/2")	192	192	141	Bulkhead
507221	BP0535	42	66	38 (1-1/2")	192	192	141	Through deck



## Amazon Manual Pumps

- Stainless steel handle with bulkhead clips
- Self-priming up to 4 metres



506602



506603



506604



506605



506620

Part no.	Model no.	Output lpm	Hose connections mm	Length mm	Width mm	Height mm		Mount	Repair kit	Mounting kit
						No handle	With handle			
506602	29270-0000	100	38 (1-1/2")	240	210	150	260	Universal, bulkhead or through bulkhead mount	506619	506615
506603	29250-0000	50	25 (1")	210	250	120	260	Through deck / through bulkhead mount	JAB-29256-1000	-
506604	29250-0010	50	38 (1-1/2")	210	250	120	260	Through deck / through bulkhead mount	JAB-29256-1000	-
506605	29240-0000	45	25 (1")	250	170	120	260	Bulkhead / deck mount	506609	-
506620*	29280-0000	135	38 (1-1/2")	365	200	260	450	Deck mount	506629	506615

\* Self priming 6 metres, double diaphragm



## Repair Kits and Accessories

Part no.	Repair kit for Whale model	Type
506218	Chimp 2	Nitrile
506219	Chimp 2	Neoprene
506290	Chimp MK1	Neoprene
506338	Gusher 30	Neoprene
506390	Gusher 8	Neoprene
506393	Gusher 25	Nitrile



506218



506338

Part no.	Description
506586	Plastic compact 90° elbow for 25mm (1") hose
506587	Plastic compact 90° elbow for 38mm (1-1/2") hose
506588	Y-piece plastic for 38mm (1-1/2") hose



506587



506588



## Plastic Strum Boxes

Whale plastic strum boxes with debris gauze. These Whale strum boxes come complete with an integral non-return valve.

Part no.	For hose I.D. mm (inch)	Entry	Grating dimensions mm	Non-return valve
505708	25 + 38 (1" + 1-1/2")	Top	146 x 56	Yes
505718	25 + 38 (1" + 1-1/2")	Side	100 x 100	Yes



505708



505718



## Easybailer Portable Pump

506371

Suitable for bilge water or diesel transfer. This hand held pump provides easy bail out on board small boats and the flexible hose allows you to pump out from hard to reach places.

More information available online at [www.asap-supplies.com](http://www.asap-supplies.com)



506371



## Gulper IC Diaphragm Grey Waste Pump

The Whale Gulper IC is a high capacity waste pump with intelligent control electronics built in. At the heart of every Whale IC product lays innovative electronic control circuitry. The pump must be used with an IC accessory such as the Gulley IC or Two Way Manifold IC to communicate via electronic signals only when grey waste water needs to be pumped out.



504832

- Secure fit - new wrap around mounting feature
- Head rotates 360° to suit your installation
- IC built in intelligent control microprocessor electronics sealed for protection against water ingress
- Pre-wired with waterproof electric connectors to prevent damage from capillary action and electrolysis
- No filter to block or clean non-choke valves
- Automatic control - received electrical signals to turn on / off as required
- Soft start protects the pump for long life
- Electronics enable use with lower current switches
- One pump handles waste from multiple drains
- Self-primers and runs dry
- Easy to install - including uneven surfaces
- Time delay to allow for optimum drainage
- Override wire included to allow for manual activation

Part no.	Model no.	Volts	Fuse size	Flow rate lpm	Hose size mm (inch)	Replacement head
504832	BP2082B	12V	10A	19	19-25 (3/4" to 1")	504839
504834	BP2084B	24V	5A	19	19-25 (3/4" to 1")	504839



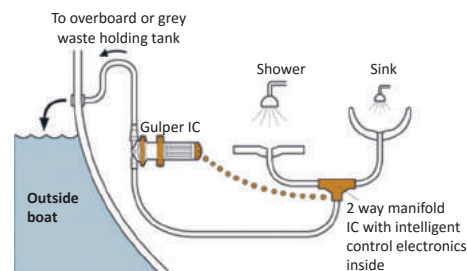
## Gulley IC Grey Water Two Way Manifold

Two way manifold with Whale Intelligent Control built in. The IC manifold can be used with a Whale Gulper pump to create a grey water disposal system. The manifold accepts two waste inputs and senses water through the wall. This relays information to the Gulper IC pump to turn on and pump the waste water.



506543

Part no.	Ports mm (inch)	Cable metres
506540	19 (3/4")	2
506541	19 (3/4")	4
506543	25 (1")	4
506544	38 (1-1/2")	2
506545	38 (1-1/2")	4



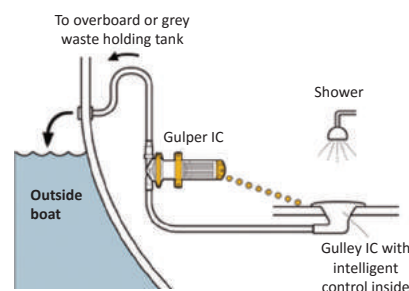
## Gulley IC Outlet For Grey Waste Water

The Whale Gulley IC is a small grey waste water outlet for showers with intelligent control electronics built in. Features an easy to clean cover and a sleek, modern design. Supplied with 3/4" and 1" stepped hose connector with integral non-return valve.



504842

Part no.	Diameter	With cable metres
504842	82mm	4
504843	200mm	4



## Gulper Pumps

- Versatile and reliable
- Large single diaphragm
- Quiet running – low power consumption
- Run dry ability
- No filter required
- Self priming to 3 metres
- Multi-directional head

For full specifications, please see our website [www.asap-supplies.com](http://www.asap-supplies.com)



504812



504815



504813

12V	24V	Model	Flow up to lpm	For hose I.D. mm (inch)	Application	Service kit
504812	504824	Gulper 220	14	19 (3/4")	Shower, drains, waste water	504829
504813	504825	Gulper toilet	18	38 (1-1/2")	Holding tanks and vacuum systems	504828
504815	504827	Gulper 320	19	19-25 (3/4"-1")	Waste water, bilge and fish box discharge. Supplied with strum box.	504839



## Inline Check Valves

Whale LV1219 non metallic construction check valve. Suitable for use with manual and electric pumps.

Part no.	Hose size mm (inch)
506561	19 (3/4")
506560	25 + 38 (1" + 1-1/2")



506560



## Diverter Valves

Whale 3 way L port diverter / changeover valve. Suitable for use with water, bilge and waste fluids and has a non-metallic construction.

Part no.	Hose size mm (inch)
506571	25 (1")
506572	38 (1-1/2")



506571

## SHURFLO® Macerator Waste Pumps

SHURflo's unique dual blade and housing construction ensures problem free pumping, providing superior performance in harsh marine environments.

- Specifically designed for sanitation waste and fish box evacuations
- Seamless sealed design
- Run dry capability
- Sealed manual turn key
- Dual blade design
- Thermally protected
- Ignition protected
- Premium impeller technology
- CE Listed

Part no.	Model no.	Volts	Max. amps	Flow rate lpm	Inlet barb or NPT mm (inch)	Outlet barb mm (inch)	Dimensions l x w x h mm
509550	3200-001	12V	15A	49	38 (1-1/2")	25 (1")	274 x 125 x 97
509551	3200-011	24V	7A	49	38 (1-1/2")	25 (1")	274 x 125 x 97



509550



## Macerator Waste Pumps

Ideal solution for emptying marine holding tanks when not in a discharge restricted area. Duty cycle of the pump is 15 minutes continuous which means a 680 litre (180 US gallons) tank can be emptied in a single operation. It is recommended that holding tanks be flushed with several gallons of water after each pump out. This will reduce the possibility of a continued build-up of sediment in the tank which could cause a potential blockage.

The Jabsco macerator pumps are the ideal pump for the emptying of fish box and livewell receptacles. Very often the livewell tank will be above the waterline of the boat, when this is the case gravity can be used to empty the livewell tank. If not installed in this format then it is beneficial to use the Jabsco macerator pump for evacuation due to its self-priming capabilities and also its grinding properties.

- Triple sealed motor to prevent both internal and external motor corrosion
- New four-bladed chopper to reduce clogging
- Detects the absence of fluid to automatically shut-off pump before the impeller is damaged
- Sensor provides adequate run-dry period to allow initial priming of the pump
- Self-priming to 1.2 metres (4ft) vertical lift
- Complies with USCG 183.410 and ISO 8846 Marine (Ignition Protection)

Part no.	Model no.	Volts	Amps	Flow rate lpm	Inlet barb or NPT mm (inch)	Outlet mm (inch)	Dimensions mm (l x w x h)	Service kit
507512	18590-2092	12V	16A	43	38 (1-1/2")	25 (1")	290 x 120 x 90	507519
507524	18590-2094	24V	8A	43	38 (1-1/2")	25 (1")	290 x 120 x 90	507519



507512



## Self Priming Waste Pumps

Robust, single diaphragm pumps with joker valves making these pumps ideal for sink, shower and waste water transfer / pumping. The design also features multi-positional 38mm (1-1/2") ID ports for good 'solids' handling ability. The single diaphragm design allows extended dry running, and can self prime up to 3m vertical lift. This Jabsco waste pump does not require a filter. These pumps are extremely quiet, and rated for up to 30 minutes continuous running.

Part no.	Model no.	Volts	Fuse size amps	Flow rate lpm	Inlet mm (inch)	Outlet mm (inch)	Dimensions mm (l x w x h)	Service kit
504486	50890-1100	12V	10A	19	38 (1-1/2")	38 (1-1/2")	278 x 161 x 132	504489
504488	50890-1100	24V	5A	19	38 (1-1/2")	38 (1-1/2")	278 x 161 x 132	504489



504486

## SHURFLO® Lo-Flo Fresh Water Pump

The SHURflo Lo-Flo Series fresh water pump is suitable for marine and RV use including pressurised water systems in cabins and general fresh water transfer. It is rugged, lightweight, compact and provides the ability to self-prime and run dry. Features include a pressure demand switch, built in 9.5mm (3/8") hose barbed ports, flexible mounting feet, splash proof motor and thermal protector.



509620

- Self-priming
- Can be located up to 0.76 metres (2.5ft) above the water level
- Intermittent duty
- Run dry capability
- 2.0 bar shut-off pressure
- Long life pressure switch
- Ignition protected
- 1 year limited warranty
- Horizontal and vertical prime may vary depending on the fluid viscosity and pump configuration

Part no.	Model no.	Volts	Max. amps	Flow rate lpm (US gpm)	Ports barbed	Shut off pressure PSI (bar)	Dimensions mm (l x w x h)
509620	105-013	12V	3A	3.8 (1)	3/8"	30 (2.0)	170 x 100 x 60

## SHURFLO® Aqua King II Fresh Water Pumps

The SHURflo Aqua King fresh water pumps are created with unique over-moulded single-piece diaphragm and internal by-pass, assuring long life and top performance in all plumbing systems.

Designed as the next legendary fresh water pump to exceed the expectations of customers. They are constructed for high flow demand, smooth flow and non rapid cycling using the latest reaction technology. The automatic demand fresh water pumps are also quiet, thermally protected and can run dry without damage.

SHURflo has built their quality reputation on the reliability and dependability of every pump they build, and with the upgraded Aqua King II they have built a pump with the same footprint as the old model to allow for easy retrofitting.



509622

- Supplied complete with strainer and 13mm (1/2") hose fittings
- Co-moulded diaphragm
- 4 Independent chambers
- Adjustable switch and by-pass
- Multi-fixture, up to 4 fixtures
- Self-priming up to 6 feet
- Run dry capability
- Sealed switch
- Sealed motor
- Corrosion resistant electro coated motor
- Thermally protected
- Ignition protected, CE
- 3 years limited warranty

Part no.	Series	Model no.	Volts	Max. amps	Flow rate lpm (US gpm)	Shut off pressure PSI (bar)	Ports NPS male (inch)	Dimensions mm (l x w x h)
509513	Junior	4129-110	12V	3.5A	7.6 (2.0)	20 (1.4)	1/2"	208 x 124 x 104
509514	Junior	4128-110	12V	3.5A	7.6 (2.0)	30 (2)	1/2"	208 x 124 x 104
509516	Standard	4139-111	12V	6.5A	11.35 (3.0)	30 (2)	1/2"	208 x 124 x 104
509517	Standard	4139-131	24V	3.8A	11.35 (3.0)	30 (2)	1/2"	208 x 124 x 104
509518	Standard	4139-111	12V	6.5A	11.35 (3.0)	45 (3)	1/2"	208 x 124 x 104
509519	Standard	4139-131	24V	3.8A	11.35 (3.0)	45 (3)	1/2"	208 x 124 x 104
509621	Premium	4149-153	12V	10A	15.1 (4.0)	40 (2.8)	1/2"	254 x 125 x 122
509622	Premium	4148-153	12V	10A	15.1 (4.0)	55 (3.8)	1/2"	254 x 127 x 120
509624	Premium	4148-163	24V	5A	15.1 (4.0)	55 (3.8)	1/2"	254 x 127 x 120
509632	Supreme	4158-153	12V	13A	18.9 (5.0)	55 (3.8)	1/2"	254 x 127 x 120
509633	Supreme	4158-163	24V	7A	18.9 (5.0)	55 (3.8)	1/2"	254 x 127 x 120

## SHURFLO® Pump Strainers

Clean, clear economical strainers eliminate unnecessary repairs by keeping debris and other particles out of the pump. Screws directly on the pump head. Transparent design shows when it is time to clean the bowl. 50 Mesh stainless steel screen.



509612



509614



More pump strainers from Jabsco, Johnson etc. are available in the Fittings, Valves & Strainers section, pages 138-139.

Part no.	Model	Inlet mm (inch)
509612	Twist on	13 (1/2") barb
509613	Twist on	13 (1/2") NPT Thread
509614	Swivel nut	13 (1/2") barb
509615	Swivel nut	13 (1/2") NPT Thread



## Watermaster Water Pressure Pump

The new Whale Watermaster galley pump focuses on the three most important features required in a marine domestic water system pump; power, performance and protection. The electrically operated diaphragm pump is designed to give a constant smooth movement of water, as well as providing high flow rates to each outlet it serves. The pump also has enough power to prime up to 3 metres (10 feet).

- Can be used with fresh or salt water
- Quick and simple to install
- Rotatable feet
- Rated IP65 for water ingress
- Can run dry without damaging the pump
- Includes inlet strainer



509842

Part no.	Volts	Fuse size (amps)	Flow rate lpm (US gpm)	Inlet / outlet size mm (inch)	Dimensions mm (l x w x h)
509842	12V	7.5A	11.5 (3)	15, quick connect, 13 (1/2") hose, 1/2" NPT	209 x 179 x 125



## Par-Max Pressure Pumps

The Jabsco Par-Max water pressure controlled pumps are designed for vessels requiring a smooth low flow pump. At an attractive low price, these water pressure pumps are internally grounded and have a three chamber diaphragm on demand pump with the performance characteristics to match the needs of a typical vessel with a shower, water heating and up to three faucets. Fitted with a built-in pulsation dampening by-pass to control unwanted cycling and noise. Quick connection fittings are included as standard for ease of pump installation.

- Triple diaphragm operation
- Diaphragm allows dry running
- Soft rubber mounts
- Corrosion resistant
- Low noise
- Screw-less diaphragm design eliminates possible leak paths
- Can eliminate the requirement for an accumulator tank
- Thermal overload protection
- Self-priming up to 2-3 metres (6ft - 10ft) vertical lift
- Complies with ISO 8846 marine (ignition protection)
- Supplied with both hose barb and NPT fittings
- Service kit - **509731**



JAB-31295-0092



509734



509739



JAB-82400-0294

Part no.	Model no.	Volts	Fuse size (amps)	Flow rate lpm (US gpm)	Port sizes mm (inch)	Switch off PSI (bar)	Dimensions mm (l x w x h)
Jabsco Par-Max 1.9							
JAB-31295-0092	31295-0092	12V	10A	7.2 (1.9)	13 (1/2")	25 (1.7)	230 x 110 x 110
JAB-31295-0094	31295-0094	24V	6A	7.2 (1.9)	13 (1/2")	25 (1.7)	230 x 110 x 110
Jabsco Par-Max 2.9							
509732	31395-0292	12V	4.4A	11 (2.9)	13 (1/2")	25 (1.7)	230 x 152 x 110
509734	31395-0294	24V	2.2A	11 (2.9)	13 (1/2")	25 (1.7)	230 x 152 x 110
JAB-31395-0392	31395-0392	12V	6A	11 (2.9)	13 (1/2")	40 (2.8)	230 x 152 x 110
JAB-31395-0394	31395-0394	24V	6A	11 (2.9)	13 (1/2")	40 (2.8)	230 x 152 x 110
Jabsco Par-Max 4							
509736	31620-0292	12V	15A	16 (3.5)	13 (1/2")	25 (1.7)	250 x 105 x 100
509737	31620-0092	12V	15A	16 (3.5)	13 (1/2")	40 (2.8)	250 x 105 x 100
509738	31620-0294	24V	7A	16 (3.5)	13 (1/2")	25 (1.7)	250 x 105 x 100
509739	31620-0094	24V	7A	16 (3.5)	13 (1/2")	40 (2.8)	250 x 105 x 100
Jabsco Par-Max Plus 4							
JAB-82400-0292	82400-0292	12V	20A	15 (3.3)	15 (1/2")	40 (2.8)	252 x 129 x 111
JAB-82400-0294	82400-0294	24V	10A	15 (3.3)	15 (1/2")	40 (2.8)	252 x 129 x 111
JAB-82400-0394	82400-0394	24V	10A	15 (3.3)	15 (1/2")	25 (1.7)	170 x 340 x 110



## Water Pressure Pumps



509062

Johnson Aquajet water pressure pump suitable for providing fresh water to taps, showers and the galley of a boat, or equally provide domestic water for a recreational vehicle or caravan. This is the WPS 5.2 model of the Aquajet series, containing 5 chambers and featuring a simple to service design. It is recommended the pump is used in conjunction with an accumulator tank and fitted with a PUMProtector inlet strainer.

The pump features a santoprene diaphragm suitable for contact with fresh water. The body is made from polypropylene and valves from EPDM rubber.

Part no.	Model no.	Volts	Fuse size (amps)	Flow rate lpm (US gpm)	Inlet size mm (inch)	Dimensions mm (l x w x h)
509062	10-13406-07	12V	15A	20 (5.2)	10 (3/8") or 13 (1/2")	240 x 214 x 110
509064	10-13406-08	24V	8A	20 (5.2)	10 (3/8") or 13 (1/2")	240 x 214 x 110



## Universal Water Pressure Pumps



509818

- Undamaged by dry running
- Rotating feet
- Quiet and efficient
- CE marked and features an ISO8846 rating for particle ingress

Part no.	Model no.	Volts	Fuse size (amps)	Flow rate lpm (US gpm)	Inlet / outlet size mm (inch)	Dimensions mm (l x w x h)
509815	UF1215	12V	8A	12 (3.2)	15 and 13 (1/2")	220 x 230 x 125
509818	UF1225	24V	4A	12 (3.2)	15 and 13 (1/2")	220 x 230 x 125



## Gusher Galley Fresh Water Foot Pumps



510627

The Whale Gusher Galley are manually operated freshwater pumps, suitable for use with showers and faucets throughout your boat. The enclosed double action diaphragm is easily operated by the foot pedal to pump water when required. This is a self priming pump and can be used to prime Whale inline booster pumps. These pumps can also run dry without causing any damage. Installation is easy thanks to multi-directional inlet and outlet hose connections.

Pump body is made from a tough acetal and nylon shell, protecting the nitrile and neoprene diaphragm. The foot lever is made from an aluminium alloy and all fastenings on the pump are stainless steel. Because of the pump's construction, it could also be used to pump saltwater if desired.

Maximum suction lift: 2 metres (7ft)

Maximum discharge head: 3 metres (10ft)

Part no.	Model no.	Lever mounting	Maximum output lpm (US gpm)	Hose connection mm	Repair kit
510627	GP0551	Left	15 (4)	15 (quick connect plumbing) 13 (flexible hose)	510629
510628	GP0550	Right	15 (4)	15 (quick connect plumbing) 13 (flexible hose)	510629



## Tip Toe MK4 Foot Pump



510611

Self priming foot pump that safely and discreetly fits flush to floor when not in use.

- Smooth easy action
- Designed for neat, through-floor mounting
- Plunger locks down flush with the floor when not in use
- Comfortable for bare foot use
- Suitable for fresh and salt water
- Ideal as a priming pump for use with Whale inline electric impeller pumps

Part no.	Model no.	Flow rate lpm	Hose size mm (inches)
510611	GP1309	7	13(1/2")



## Premium Inline Water Pumps



509884

- Ideal for use with freshwater and saltwater
- Lightweight compact pump
- Very quiet when operating
- A simple and effective way to upgrade from a manual pumping system
- Suitable for use with pressure switch and micro-switch systems
- Fits unsupported into pipework
- Long life and low power consuming pump
- Supplied with 1 metre length of wire and adaptors

Part no.	Model no.	Volts	Fuse size	Flow rate lpm (US gpm)	Hose connection mm (inch)	Adaptors mm (inch)	Diameter mm
509882	GP1392	12V	5A	13	10 (3/8")	13 (1/2")	36
509884	GP1394	24V	3A	13	10 (3/8")	13 (1/2")	36



## Premium High Flow Submersible Pumps

- A simple, compact, quiet and low cost pump
- Inexpensive way to update existing manual systems
- Can be dropped into a tank to pump out the contents
- Self venting pump to eliminate air locking
- Ideal for one, two or three hot / cold mixer faucets
- Features a quiet, low power consumption
- Suitable for pumping fresh water or salt water via 10mm (3/8") or 13mm (1/2") ID hose

Part no.	Model no.	Volts	Fuse size	Flow rate lpm (US gpm)	Hose connection mm (inch)	Adaptors mm (inch)	Diameter mm
509892	GP1352	12V	5A	13	10 (3/8")	13 (1/2")	36
509894	GP1354	24V	3A	13	10 (3/8")	13 (1/2")	36



509892

## SHURFLO® Marine Pro Blaster Washdown Pump Kit

SHURflo's Pro Blaster washdown kit includes everything you need for tough washdown applications, such as fish box, scaling and anchor chain cleaning. This all in one kit includes a Pro Blaster washdown pump that is rugged, self-priming, delivers high lift and can run dry without damage. The pump is thermally and ignition protected and features a sealed switch to prevent water damage. CE and IMCI certified.

Kits includes:

- Pump
- Spray nozzle
- Self-coil hose 7.6 metres (25ft)
- 1 x Garden hose wingnut fitting
- 2 x Straight swivel wingnut fitting 1/2" - 14NPT female, plus 3/4" barb
- 2 x Straight swivel adaptor fitting 1/2" - NPT male, plus 3/4" barb
- Straight fitting 1/2" barb x 1/2" NPT male
- Strainer



509660



Part no.	Model	Model no.	Volts	Flow rate lpm (US gpm)	Pressure PSI (bar)
509660	Pro blaster II deluxe	4348-153-E09	12V	15.1 (4.0)	4.1 (60)

### 509091

Through bulkhead fitting  
Hose connection: 19mm (3/4")  
Garden hose connection: 3/4" GHT

## SHURFLO® Marine Washdown Pumps

The SHURflo washdown pumps are perfect for tough washdown applications, such as fish box, scaling and anchor chain cleaning. They deliver high lift and can run dry without damage and will not overheat with extended use. Ignition and thermally protected with a sealed switch to prevent water damage.

- Sealed switch
- Run dry capability
- All have 1/2" NPT male ports
- Ignition protected
- CE Listed
- 2 year limited warranty (\*except 509630 which is 1 year)
- All pumps are supplied with a spray gun (\*except 509626)



Pro Blaster



### 509610

SHURflo high flow pump strainer, 50 mesh.  
Suitable for 509634 and 509636

Part no.	Model	Model no.	Volts	Fuse size (amps)	Flow rate lpm (US gpm)	Shut off pressure bar (PSI)	Dimensions mm (l x w x h)	Supplied with
509626*	Pro blaster Deluxe	4248-153	12V	15A	15.2 (4)	4.1 (60)	254 x 125 x 122	Inlet strainer with 1/2" hose tail 3/4" hose tail and 3/4" GHT male connection
509628	Pro blaster Deluxe	4248-163-E09	24V	7.5A	15.2 (4)	4.1 (60)	254 x 125 x 122	Inlet strainer with 1/2" hose tail 3/4" hose tail and 3/4" GHT male connection
509630*	Blaster II	4238-121-E07	12V	10A	13.2 (3.5)	3.1 (45)	229 x 124 x 104	3/4" hose tails
509631	Blaster II	4238-141-E07	24V	35A	13.2 (3.5)	3.1 (45)	229 x 124 x 104	3/4" hose tails
509634	Pro blaster Ultimate	4258-153	12V	20A	18.9 (5)	4.5 (65)	254 x 125 x 122	Inlet strainer with 1/2" hose tail 3/4" hose tail and 3/4" GHT male connection
509636	Pro blaster Ultimate	4258-163	24V	10A	18.9 (5)	4.5 (65)	254 x 125 x 122	Inlet strainer with 1/2" hose tail 3/4" hose tail and 3/4" GHT male connection



Spray gun can be ordered if required (509938 - 3/4" garden hose thread)

## Circulation Pumps

Circulation pumps are designed to create a flow of liquid against low resistance. Because the liquid returns to its starting point, the net static head is zero, and the only resistance to flow is the friction offered by the pipe walls, bends, elbows and other fittings in the circuit. Use pipework with a bore at least as large as the nominal bore of the pump ports.



### Water Circulation Pumps



209510

- Made from non-corroding materials
- Very efficient
- Low power consumption
- Quiet and maintenance free
- Has a "brush-less" DC motor
- "Seal-less" magnetic drive pump
- Compact yet effective and quiet



209520

Part no.	Model no.	Volts	Current amp draw	Flow rate lpm	Ports mm (inch)	Dimensions mm (l x w x h)	Life up to hours
209510	59510-0012	12V	1.2A	12.5 (at 1.2m head)	19 (3/4")	96.8 x 84.5 x 69	20,000
209520	59520-0000B	8-24V	0.25 - 1.7A	Variable - see web for performance chart	(1/2") BSPFM	90 x 82 x 86	30,000
209530	59530-0000	8-24V	0.25 - 1.8A	Variable - see web for performance chart	19 (3/4")	101 x 89 x 104	20,000



### Compact Water Circulating Pumps



209604

- Johnson magnetic driven centrifugal pump for use as a fresh water circulating pump
- Compact design, low current consumption and high flow rates
- Suitable for circulating water in live fish tanks, heating and cooling systems etc.
- Suitable for fresh water only, not salt water
- These pumps have a thermoplastic body and impeller, with stainless steel shaft
- A magnet drives the enclosed motor which is designed for continuous operation, withstanding dry running for up to 30 minutes
- Pump shell is leak proof due to the seal-less design
- Service life: 5,000 hours
- Liquid temperature: minimum -40°C, maximum +100°C

Part no.	Model no.	Volts	Amp draw	Flow rate lpm @ 0.1 bar	Ports mm	Dimensions mm (l x w x h)
209602	10-24501-03	12V	1.2A	15	16	177 x 68 x 85
209604	10-24501-04	24V	0.6A	15	16	177 x 68 x 85
209612	10-24502-03	12V	1.2A	18.5	20	177 x 68 x 85
209614	10-24502-04	24V	0.6A	18.5	20	177 x 68 x 85
209622	10-24504-03	12V	2.2A	26	20	177 x 68 x 85
209624	10-24504-04	24V	1.1A	26	20	177 x 68 x 85



### Livewell Bait and Catch Pump

Designed to supply the volume of water required to keep bait and catch alive and healthy. Features Rule's incredibly long life motors for outstanding reliability, performance and durability. Silent running and vibration-less and are a must have on any serious fisherman's boat.



504143

- Advanced anti-airlock protection
- Rotatable base that allows you to position the discharge nozzle at any location
- Quick, one hand "push button" motor cartridge removal system
- Threaded nylon hose barb attachments which allows for various hose mounting options and built in dual port option
- Application: Seacock mounted requiring a 19mm (3/4") NPT tapered thread

Part no.	Model no.	Volts	Fuse size	Flow rate lph (US gph)	Outlet port mm (inch)
504143	401FC	12V	6A	1892 (500)	19 (3/4")

## Fuel Pumps

A range of pumps designed for the fuel system in your boat. This includes a variety of fuel lift pumps designed for specific engines, as well as pumps to transfer fuel quickly and efficiently. Fuel primer pumps are designed to fit to the head of a fuel filter to help prime the engine.



### Fuel Pumps

Small, compact, solid state electric fuel pumps. Typical uses include: fuel transfer, fuel polishing and fuel pump. These compact solid state fuel pumps are suitable for pumping diesel, petrol (gasoline), biodiesel, blended alcohol fuels and fuel additives. The solid state design of these fuel pumps enables them to be small, efficient and incredibly reliable. There are no electrical contacts and no bearings or diaphragm to wear out in these fuel pumps. For best results, mount the fuel pump close to the fluid or fuel tank and below the liquid level.

- Positive lead - plain (no terminal)
- Negative lead - 0.25" (ring terminal)
- Maximum dry lift: 300mm
- Operating temperature range: -40°C to 82°C (-40°F to 180°F)

Part no.	Volts	Current draw	Flow rate lph (US gph)	Ports NPT female	Pressure ratings min. / max. PSI	Height mm	Length mm	Width mm	Feet length mm	Feet hole centres mm
306550	12V	1.5A	121 (32)	1/8" - 27	4 / 7	60	75	47	82	64
306552	24V	0.4A	121 (32)	1/8" - 27	4.5 / 6	60	75	47	82	64
306560	12V	1.6A	121 (32)	3/8" - 18	4 / 7	60	100	47	82	64
306562	24V	0.5	121 (32)	3/8" - 18	4.5 / 9	60	100	47	82	64



306550



306562

## Electric Inline Diesel Pump

### 173041

12V electric diesel pump suitable for Mitsubishi based Thornycroft engines (80, 60 and 33) as well as other small diesel engines. Can also be used for transferring fuel or use in a fuel polishing system. Supplied with element **173043** to act as a fuel filter as well.



173041

## rule Slimline Water and Diesel Pumps

These inline pumps are suitable for pumping hot and cold fresh water, seawater and hazardous liquids like antifreeze and diesel. This makes them ideal for use as a bilge pump, shower pump, washdown pump, refuelling pump, engine winterising pump or a simple water or diesel transfer pump. As such versatile pumps, they aren't just suitable for boats - they can be used for washing cars and other vehicles, filling and emptying containers, draining sinks or even watering gardens.

They are rated for continuous use but should not run dry for long periods of time. The body is made from acetal and is submersible. Designed to be portable and contains a 4 metre cable with crocodile clips on the end to connect to a power source. Because they are compact and portable, these are a very useful pump to have on board.

- Cable length: 4 metres (13ft)
- Operating temperature: Up to 80°C (176°F)
- Approximate motor life: 150 hours



306555

Part no.	Model	Volts	Amp draw	Output lpm	Outlets mm I.D. hose	Length mm	Diameter mm	Head metres	Pressure PSI (bar)
306555	IL280P	12V	4.5A	18	13 (1/2")	165	38	9.7	14 (0.96)
306557	IL280P-24	24V	2.5A	18	13 (1/2")	165	38	9.7	14 (0.96)

## JABSCO Self Priming Diesel Transfer Pumps

Jabsco self priming diesel transfer pumps have a cast iron pump head with an aluminium body. They include an integral fuse switch and hose adaptors. These diesel transfer pumps are suitable for use between -30°C and +40°C and can self prime up to 2.8 metres vertical lift. Suitable for the transfer of diesel and light oils. Must not be used with petrol or other flammable liquids. Some of the impeller pumps on page 214 can be used for this.

Part no.	Model no.	Volts	Output lpm	Fuse size	Hose size mm (inch)	Length mm	Width mm	Height mm
306702	23870-1200	12V	35	20A	19 (3/4")	180	110	140
306704	23870-1300	24V	35	10A	19 (3/4")	180	110	140
306712	VR050-1022	12V	50	20A	25 (1")	215	130	65
306714	VR050-1122	24V	50	10A	25 (1")	215	130	65



306702

## Semi Rotary Pumps

- Manual semi rotary pumps for liquids free from suspended solids up to 80°C
- Suitable for water, diesel, paraffin, oil etc.
- Cast iron body construction with bronze internals
- Supplied with wooden handle for manual operation



506716

Part no.	Model	BSP	Flow rate lpm
506713	E2311	1/2"	11.5
506714	E2312	3/4"	17.3
506715	E2313	1"	22.5
506716	E2314	1-1/4"	29

## JABSCO Electric Oil Change Pumps



203812

The Jabsco Oil Change Pump is designed to be installed near a vessel's engine and permanently plumbed in to the engine's oil pan. The pump can be used to remove old oil from the engine, then with the integral reversing switch, the flow direction can be changed to pump a measured amount of new oil back into the engine.

Part no.	Model	Volts	Amps	Inlet size inch	Flow rate lpm
203812	17830-0012	12V	10A	3/8" NPT Female	24
203824	17830-0024	24V	5A	3/8" NPT Female	24

## Manual Oil Change Sump Pumps

These manual brass oil change sump pumps are designed to be connected to the sump of a marine engine, in a more accessible and convenient location, to make oil changes easier at service time. These pumps are extremely popular for changing the engine or gearbox oil.



203800

203801

Part no.	Thread BSP male	Overall height mm (with handle retracted / extended)	Cylinder height mm	Cylinder diameter mm	Pump capacity per stroke	Construction
203800	3/8"	240 / 285	172	30	77cc	Brass
203801	3/8"	220 / 270	165	30	77cc	Passivated steel

## SHURFLO® Flexible Impeller Drill Pump

- This is a handy small pump which can be used anywhere an electric drill can be operated
- Suitable for oil change, winterising, automatic transmission fluids, anti-freeze solutions, low viscosity gear and liquid transfer applications
- Complete with a 30" length of garden hose and a length of 1/4" ID oil change tubing
- Construction: 30% glass filled polyester
- Impeller: BUNA-N Flexible reversible impeller



509592

Part no.	Model	Output lpm	Ports male garden hose fittings	Length mm	Width mm	Height mm	Shaft mm
509592	3010-000	13.6	3/4" GHT	66	112	71	6

## JABSCO Flexible Impeller Drill Pump

The Jabsco drill pump can be used almost anywhere an electric drill with 1/4" to 3/8" chuck can be operated.



306592

Part no.	Model	Output lpm	Ports mm (inch)	I.D. garden hose thread female	Shaft mm (inch)
306592	17250-0003	13	13 (1/2")	3/4" GHT	6.5 (1/4")



*Warning - pumps with AC motors can spark, do not use where flammable vapours are present.*

## JABSCO Manual Hand Pump

### JAB-34060-0010

The Jabsco "Little Pal" compact hand pump is made from a corrosion resistant brass body, long life brass cylinder and high quality oil-resistant rubber plunger. This hand pump is suitable for bilge pumping, oil draining, diesel fuel transfer and other liquid pumping applications. These pumps never need priming and provide full suction from the first stroke. The pumps may be used in any position. More information available online at [www.asap-supplies.com](http://www.asap-supplies.com)



JAB-34060-0010



*Pumps used in diesel fuel applications must be flushed clean after use to prevent neoprene distortion. Oil temperature should not exceed 60°C.*

## Marine Engine Cooling Pumps

A raw water pump is an essential part of any engine cooling system.

On a heat exchanger cooled engine, the flexible impeller pump provides external water (sea water or river water) to the heat exchangers to cool the engine. The raw water flexible impeller cooling pump can be pulley, gear or crankshaft mounted. The engine coolant is distributed by the engine's integral circulating pump.

For keel cooled engines, the internal engine circulation pump pumps the water to the keel coolers or skin tank. A flexible impeller pump is not generally used unless the engine has a wet exhaust system in which case a small flexible impeller pump may be used to cool the wet exhaust tube and components.

We supply flexible impeller pumps from the market leaders Jabsco, Sherwood and Johnson.



### Pulley Driven Engine Cooling Pumps

Part no.	For engine	Port size	Spare impeller
SWR30G	Various - please contact us	1/2" NPT female	SW10077K
SWK75B	Onan 4 cylinder diesel	1" O.D. hose tail	SW09959K
SWG907P	Kohler Ford	3/8" NPT female	SW09000K
SWH5	Perkins 4-154	1" O.D. hose tail	SW09959K
SWG906	Kohler 4 + 6 cylinder	3/8" NPT female	SW09000K
SWG21	Pleasurecraft 302 + 351	1" O.D. hose tail	SW09959K



SWR30G



SWK75B



SWG907P



SWH5



SWG906



SWG21



### Pulley Driven Engine Cooling Pumps

Part no.	Model	Model no.	Ports BSP female	Shaft size mm	Max. power @ 0.3 bar	Spare impeller
209711	F35B-8	10-24569-01	3/8"	12	20lpm @ 2500 rpm	JP-09-808B
209721	F4B-8	10-24570-01	3/8"	12	34.5lpm @ 2500 RPM	JP-09-810B
209731	F5B-8	10-24571-01	3/4"	17	46lpm @ 2000 RPM	JP-09-1027B
209741	F7B-8	10-24572-01	1"	17	107lpm @ 2000 RPM	JP-09-1028B



209711



209721



209731



209741



### Pulley Driven Engine Cooling Pumps

Part no.	Description	Port size BSP female	Shaft size mm	Spare impeller
JAB-CW403	Pedestal mount, with pulley	3/4"	127mm Pulley	JAB-1210-0001-P
JAB-CW404	Pedestal mount, with pulley	3/4"	159mm Pulley	JAB-1210-0001-P
JAB-51520-2001	Pedestal mount, with pulley	3/8"	12	JAB-653-0001-P
JAB-52040-2001	Foot mount, bare shaft	3/4"	17	JAB-1210-0001-P
JAB-52080-2001	Foot mount, bare shaft	1"	16	JAB-17937-0001-P
JAB-52200-2011	Foot mount, bare shaft	1-1/2"	25	JAB-17935-0001



JAB-CW403



JAB-52040-2001



JAB-52080-2001



JAB-52200-2011



*Foot mounted pumps require a pulley to drive them.*

#### JAB-52042-0200

Jabsco pump pulley suitable for use with Jabsco **52040-2001** engine cooling pumps. This pulley has a diameter of 127mm (5") and is suitable for a 17mm shaft.



JAB-52042-0200



## Pulley Driven Engine Cooling Pumps



Part no.	Description	Port size NPT female	Spare impeller
SWE35	Pedestal mount, with pulley	1"	SW10615K
SWG151	Pedestal mount, with pulley	1-1/2"	SW15000K
SWG4	Pedestal mount	1-1/4"	SW10615K
SWG7B	Pedestal mount, with pulley	1-1/4"	SW10615K
SWG910P	Pedestal mount, with pulley	3/8"	SW09000K
SWG9903	Pedestal mount, with pulley	1-1/4" inlet, 1" outlet	SW09959K
SWR991	Pedestal mount, with pulley	1-1/4"	SW09959K
SWRPBC	Pedestal mount	1"	SW10615K
SWL10B	Pedestal mount	1-1/4"	SW10615K
SWG8002	Pedestal mount, with pulley	3/8"	SW08000K

## Flange Mounted Engine Cooling Pumps

All of these water pumps are flange mounted to the engine. Each pump has a flexible impeller and is designed to pump raw water (river water or sea water) round the cooling circuit of the engine.



## Flange Mounted Engine Cooling Pumps



Part no.	For engine models	Port size hose	Spare Impeller
SWP1710C	Caterpillar 3116	Flanged	SW17000K
SWP1732C	Caterpillar 3126	Flanged	SW17000K
SWP1730C	Cummins 6C and 6B 270-450HP	Flanged	SW17000K
SWP1727C	Cummins 6C and 6B 270-450HP	Flanged	SW17000K
SWP2708X	Cummins QSB	Flanged	SW27000K
SWM71	Cummins 210HP 4B	1-1/4"	SW10615K
SWP1016	Cummins	1-1/2"	SW10615K
SWP1716C	Cummins B and C series	2" inlet, 1-3/4" outlet	SW17000K
SWP1722C	Cummins C series	2" inlet, 1-3/4" outlet	SW17000K
SWG2902X	Caterpillar 3406E	3-3/4"	SW29000K
SWG2903X	Cummins QSM11	2-1/2" inlet, 2" outlet (elbows not supplied)	SW29000K
SWP1719X	John Deere	Flanged	SW17000K
SWG1010	Onan 5 cylinder diesels	1"	SW10615K
SWG702	Onan 6.5-10Kw	1"	SW10077K
SWG2603X	Various - please contact us.	2-1/2" flanged	SW26000K
SWG3001X	Caterpillar 3412	3-3/4"	SW30000K
SWD60	Chrysler M273X, LM318X	Flanged	SW09959K
SWG65	Perkins 40-108 diesel	3/4"	SW09959K
SWG8001	Kohler 5-7 kW petrol	3/8"	SW08000K
SWGC1	Cummins B and 6B series	1-1/2"	SW15000K
SWGC5	Cummins B and 6B series	1-1/2"	SW15000K
SWP1505	Various applications	1-1/2"	SW15000K
SWP1733X	Various - please contact us	Flanged	SW17000K
SWP176X	Caterpillar 3208	1-1/2" NPT female inlet, 1-3/4" outlet	SW17000K
SWR10870G	Westerbeke	3/4" NPT female	SW09959K



## Repair Kits for Sherwood Pumps



Part no.	Suitability
SW24580	P2701-01, P2701X, P2702-01, P2703-01, P2704-01, P2705-01 & P2706-01
SW25009	P1016-01 & P1016
SW25073	G1010 & G1010-01



## Flange Mounted Engine Cooling Pumps

Johnson pumps are specified as original equipment by many engine manufacturers such as Volvo, Nanni, Lombardini, and Scania to name but a few. Most bolt directly to the engine.

Engine specific RWPumps are shown online within Engine Spares. Many types available, please do not hesitate to contact us, or visit [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Model	For engine models	Port size BSP female	Spare Impeller
JP-10-35157-1	10-35157-1	Volvo Penta	3/8"	JP-09-808B
JP-10-35157-3	10-35157-3	Flanged Volvo	3/8"	JP-09-808B
JP-10-35127-1	10-35127-1	Nanni 390-260 HE Engines	3/8"	JP-09-810B
JP-10-35098-4	10-35098-4	Lombardini	3/8"	JP-09-1026B
JP-10-35211-3	10-35211-3	Nanni 2.4 HE, Kubota 2482	3/8"	JP-09-808B



JP-10-35157-1



JP-10-35157-3



JP-10-35098-4



JP-10-35127-1



## Flange Mounted Engine Cooling Pumps

Part no.	For engine models	Port size	Spare impeller
JAB-3270-200	Perkins 4.107 and 4.108	3/4" BSP female	JAB-1210-0001-P
JAB-29500-1001	Perkins M50	28mm hose	JAB-1210-0001-P
JAB-10950-2401	Ford 4 Cylinder Dorset & Dover Engines	3/4" BSP female	JAB-1210-0001-P
JAB-29460-1701	Kubota 10 - 37.5hp	20mm hose	JAB-18653-0001-P



JAB-3270-200



JAB-29500-1001



JAB-10950-2401



JAB-29460-1701

This is only a small selection of the many pumps available. Don't see what you need? Please do not hesitate to contact us, or visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)



## Engine Cooling Pumps

Part no.	Description
Volvo Penta engines	
ORB 15089	Replaces OEM part number 3583089
ORB 15115	Replaces OEM part numbers 3583115 and 3581558
ORB 15178	Replaces OEM part number 831178
ORB 15207	Replaces OEM part number 3838207
ORB 15578	Replaces OEM part numbers 855578 and 828026
ORB 15654	Replaces OEM part numbers 3593654 and 3580944
ORB 15824	Replaces OEM part number 859824
ORB 15883	Replaces OEM part numbers 833883, 833415, 833522, 858065 and 840076
ORB 15895	Replaces OEM part numbers 829895 and 825916
Yanmar engines	
ORB 8-42000	Replaces OEM part numbers 128990-42510 and 121575-42200



ORB 15115



ORB 15883



SWP105



JAB-29440-1001



## Crankshaft Mounted Engine Cooling Pump

Part no.	Model	For engine models	Port size	Spare impeller
SWP105	P105	Volvo Penta	1-1/4"	SW10615K



## Crankshaft Mounted Engine Cooling Pump

Part no.	Model	For engine models	Port size	Spare impeller
JAB-29440-1001	29440-1001	Various - please contact us	25mm hose	JAB-18653-0001-P

## Impeller Pullers

*Drive Force*


210471



210473

 SHERWOOD


SW25105

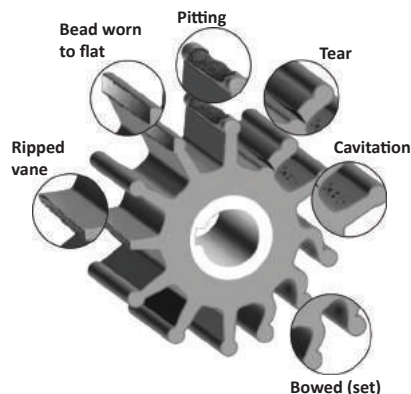
Part no.	Suitable for
210471	Most small impellers up to 65mm diameter
210473	Larger impellers over 65mm to 114mm diameter
SW25105	To remove Sherwood impellers 17000, 18000, 22000, 26000, 29000 and 30000
SW25106	Impeller removal tool for Sherwood 27000 impellers

## Impellers

The number 1 reason for premature engine wear is overheating. To maintain performance, insist upon original engine specified Sherwood Pumps.

To maintain best engine performance and to prolong engine life - replace your impeller annually. Here are 3 tips to help you install your new impeller:

1. Use a non-petroleum based lubricant (silicon or soapy water) to help slide the impeller into the housing.
2. Install the impeller with a twisting motion onto the shaft. Never force an impeller onto the shaft. The impeller must be able to move freely on the shaft to properly prime and function.
3. Use a small amount of non-petroleum based lubricant to help hold the 'O'-ring when replacing the cover.

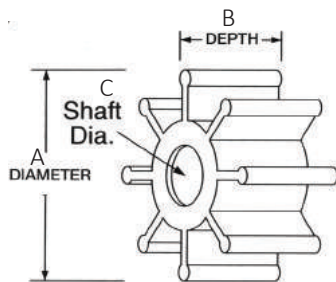


### Recommended inspection to be performed at any service interval:

- Impeller - Inspect for cracks or tears. Also, inspect for excessive abrasion of vane ends, replace annually
- Wear plate - Inspect for wear, flatness, and pin for fatigue. Replace at minor and major pump rebuild or if wear is evident to maintain pump flow and suction performance
- Cam - Replace at major pump rebuild or if pitting / wear is evident
- Cover - Replace at major pump rebuild or if wear exists to maintain pump flow and suction performance
- Mechanical seal - Replace at minor and major pump rebuild or if leaking
- Lip seal - Replace at minor and major pump rebuild or if leaking
- Shaft - Inspect for wear in area of lip seal and rubber impeller. Grooving of lip seal area or heavy fretting of the impeller end shaft will require shaft replacement
- Bearing - Inspect for loss of grease, corrosion or rough rotation. Replace at major pump rebuild or if in doubt



SW26000K



It is good boating practice to always carry a spare flexible impeller.

## Neoprene Flexible Impellers

Don't settle for anything less than the genuine article. Your engine would cost a tidy sum to replace, so why try to save a few quid on 'other brand' impellers. The Sherwood cooling pump is one of the most important parts on your engine.

As the official UK importer, we offer a competitive price on genuine Sherwood impellers and Sherwood spares

- Keep your engine in the condition it was designed to be in by the engine manufacturer. They specified Sherwood, so fit genuine Sherwood impellers and spares to your Sherwood pumps
- Sherwood neoprene flexible impellers are used for pumping water
- Sherwood flexible impellers suffixed K (e.g. SW27000K) are supplied as an impeller kit, with gasket and / or 'O'-ring

Part no.	Diameter A mm (inch)	Depth B mm (inch)	Shaft diameter C	Keyway	Number of vanes	Sherwood Impeller puller
SW08000K	40 (1-9/16")	19 (3/4")	7/16"	Single flat	6	-
SW09000K	62.5 (2-7/16")	22 (7/8")	5/8"	3/16"	12	-
SW09959K	62.5 (2-7/16")	32 (1-1/4")	5/8"	3/16"	12	-
SW10077K	57 (2-1/4")	20 (25/32")	1/2"	3/32"	12	-
SW10187	66 (2-19/32")	50 (1-31/32")	5/8"	3/16"	9	-
SW10615K	65 (2-9/16")	41 (1-5/8")	5/8"	3/16"	12	-
SW15000K	65 (2-9/16")	51 (2")	5/8"	3/16"	12	-
SW17000K	84 (3-5/16")	73 (2-7/8")	20mm	3/16"	12	SW25105
SW27000K	84 (3-5/16")	73 (2-7/8")	3/4"	Spline	12	SW25106
SW29000K	95 (3-3/4")	102 (4")	15/16"	Spline (10)	12	SW25105
SW18000K	95 (3-3/4")	102 (4")	15/16"	Spline (14)	12	SW25105
SW26000K	95 (3-3/4")	80 (3-1/8")	15/16"	Spline	12	SW25105
SW22000K	114 (4-1/2")	110 (4-5/16")	15/16"	Spline (14)	10	SW25105
SW30000K	114 (4-1/2")	110 (4-5/16")	15/16"	Spline (10)	10	SW25105

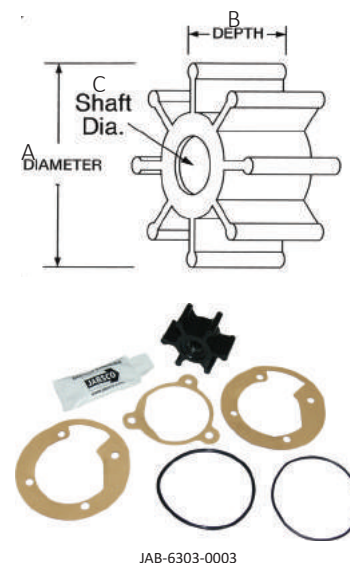
## Impellers

We only supply genuine replacement impellers and spares which are designed to provide the best pumping performance.

Jabsco flexible impellers suffixed -P (e.g. JAB-1210-0001-P) are supplied as an impeller kit, with gasket and / or 'O'-ring.  
Johnson flexible impellers are usually supplied as an impeller kit, with gasket and / or 'O'-ring.

### Nitrile Impellers - For Pumping Fuel

Diameter A mm	Depth B mm	Diameter C mm	No. of vanes	Drive type	JABSCO	JOHNSON PUMP
35.2	12.7	8	6	Single flat	-	JP-09-1077B-9
40	19	9.5	6	Through pin	JAB-4528-0003B	-
40.5	19	8	10	Single flat	JAB-9200-0023B	-
45.2	12.8	8	6	Single flat	-	JP-09-1052S-9
51	22	8	6	Single flat	JAB-6303-0003-P, JAB-7273-0003	JP-09-824P-9
51	22	12.7	10	Through pin	JAB-18673-0003B	-
57	31.5	12.7	12	Ding key	JAB-5929-0003	-
57	31.5	16	12	Spline	JAB-1210-0003B	JP-09-10278-9
65	51	16	8	Spline	JAB-920-0003B	JP-09-10288-9
65	51	16	10	Spline	JAB-17937-0003B	JP-09-10288-9
95	63	25.4	9	Spline	JAB-836-0003	-
65	51	16	8	Twin flat	JAB-14282-0003B	-
57	31.5	16	12	Double flat	JAB-14281-0003B	-



### Neoprene Impellers - For Pumping Water

Diameter A mm	Depth B mm	Diameter C mm	No. of vanes	Drive type	JABSCO	JOHNSON PUMP
32	12	8	6	Single flat	JAB-1414-0001-P, JAB-21414-0001-P (For use with Yanmar IGM10 engine)	-
40	19	9.5	6	Through pin	JAB-4528-0001-P	JP-09-806B
40	19	12	6	Through pin	JAB-22405-0001-P	JP-09-808B
51	22	8	6	Single flat	JAB-6303-0001-P	-
51	22	12.7	6	Through pin	JAB-673-0001-P	JP-09-1026B
51	22	12.7	6	Key	JAB-22799-0001	-
51	22	12	6	Through pin	JAB-653-0001-P	JP-09-810B
51	22	12.7	10	Through pin	JAB-18673-0001	-
51	22	12	10	Through pin	JAB-18653-0001-P	JP-09-810B
57	31.5	16	12	Spline	JAB-1210-0001-P	JP-09-1027B
57.1	48.2	16	12	Spline	-	JP-09-812B
57	31.5	16	12	Key	JAB-4568-0001-P	JP-09-801B
57	31.5	16	12	Double flat	JAB-14281-0001B	-
57	51	16	10	Spline	JAB-18777-0001-P	-
65	51	16	8	Spline	JAB-920-0001-P	JP-09-1028B
65	36.5	16	8	Spline	JAB-11979-0001B	-
65	51	16	10	Spline	JAB-17937-0001-P	JP-09-1028B
65	76.2	16	8	Spline	JAB-17018-0001	-
65	80	25.4	12	Spline	-	JP-09-821B
65	51	16	8	Key	JAB-4598-0001	-
95	63	25.4	9	Spline	JAB-836-0001-P	JP-09-819B
95	63	25.4	11	Spline	-	JP-09-819B
95	88.5	25.4	9	Spline	-	JP-09-802B
95	88.9	25.4	12	Double flat	JAB-17370-0001	-
95	63	25.4	12	Spline	JAB-17935-0001	JP-09-819B
95	88.9	25.4	12	Spline	JAB-17936-0001	JP-09-814B
65	51	16	8	Twin flat	JAB-14282-0001B	-



JP-09-1027B



JAB-17937-0001-P



JAB-17935-0001



It is good boating practice to always carry a spare flexible impeller.

Can't find the impeller you are looking for? Please check our website [www.asap-supplies.com](http://www.asap-supplies.com) or contact our sales team.



## Neoprene Impellers - For Pumping Water



Diameter A mm	Depth B mm	Diameter C mm	No. of vanes	Drive type	Part no.
Volvo Penta engines					
39	19	9.5	6	Through pin	ORB 15807
39	19	12	6	Through pin	ORB 15583
50	22	12.7	6	Through pin	ORB 15808
57	31	15.9	12	Key	ORB 15575
57	31	16	12	Spline	ORB 15811
57	48.2	12	12	Spline	ORB 15662
57	50	16	12	Spline	ORB 15120
61	31.5	15.9	12	Key	ORB 15512
65	50	16	8	Spline	ORB 15593
65	76.2	16	8	Spline	ORB 15573
66	80	1"	12	Spline	ORB 15649
95	63	25.4	9	Spline	ORB 15660
95	88.5	25.4	12	Spline	ORB 15814
95	95	25.4	12	Spline	ORB 15459
Yanmar engines					
32	12	8.1	6	Single flat	ORB 8-24002
40	19	9.6	6	Through pin	ORB 8-24001
51	22	12	6	Through pin	ORB 8-24007
51	22	13	6	Key drive	ORB 8-24003
57	31.7	16	12	Spline	ORB 8-24004
65	51	16	8	Spline	ORB 8-24005
65	80	25.4	12	Spline	ORB 8-24006



## Impeller Lubrication Grease

## ORB 23005

Orbitrade Marine tube of impeller installation grease made from glycerin designed to replace OEM part number 3862178. This lubricant is designed for use with impellers, oil sensitive O-rings or other rubber components.



## Pin Wing Screw Kits

Orbitrade Marine pin wing screw kit designed for use with Volvo Penta and Johnson engine cooling pumps.



Please note

To see which engine models each kit can be used with, please visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Description
ORB 15350	Set of six 8/32" x M4 screws
ORB 15351	Set of four M4 x M4 screws
ORB 15356	Set of six 10/32 x M5 screws
ORB 15932	Set of six M4 x M4 screws
ORB 15934	Set of six M5 x M5 screws
ORB 15935	Set of four M5 x M5 screws



ORB 15566

We offer a wide range of Volvo Water Pumps, please visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)



# SANITATION

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Anti-Siphons

Diaphragm Pumps

Electric Toilets

Macerator Pumps

Manual Toilets

No Smell Waste Filters

Sanitation Hose

Sanitising Units

Shower Systems

Tank Vents

Waste Tank Water Level Gauge

Waste Water Level Senders

Waste Water Tanks & Accessories

Whale Gulper Pumps



## Marine Toilet Systems

There is a Jabsco marine toilet to suit every boat and budget. The Jabsco manual toilet is the world's best seller: clean to use, with a china bowl that won't scratch or discolour; designed for ease of service in restricted spaces, with all the fastenings facing the front or the top.



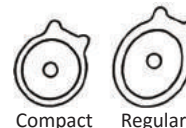
507701



### Manual Toilets

Jabsco manual toilets are designed for marine applications using either fresh or raw water flushing. These toilets feature a regular household style bowl shape made from vitreous china with an enamelled wooden seat. These Twist 'N' Lock toilets from Jabsco are designed to prevent flooding and waste backflow.

The Twist 'N' Lock feature is built into the pump out system. Direct replacement for all Jabsco manual toilets dating back to 1986.



Compact

Regular

Part no.	Model	Bowl type	Inlet mm	Outlet mm	Overall height mm	Overall width mm	Overall depth mm
507701	29090-3000	Compact	19	38	340	450	410
507703	29120-3000	Regular	19	38	350	470	480



### Manual Toilet Service Kits



507709

Part no.	For Jabsco toilet numbers	For ASAP part numbers	For Jabsco series
507707	29090-3000 29120-3000	507701 507703	Twist 'N' lock 2008 onwards. Dark blue handle.
507709	29090-2000 29120-2000	507701 507703	Manual toilet 1998-2007. Grey handle.
507708	29090-0000 29120-0000	507701 507703	Manual toilet 1986 to 1997. Black handle.

Kits include all seal and gaskets to service toilet pump.



### Manual Toilet Pump



### Manual Toilet Electric Conversion Kit

This kit allows a Jabsco manual toilet to be electrically operated by replacing the manual pump with this electric version. It is suitable for replacing manual toilet pumps on compact and regular sized Jabsco toilets, in left or right hand installations.



507782

Part no.	Volts	Fuse size	Overall height	Overall width	Overall depth
507782	12V	25A	270mm	87mm	150mm

#### JAB-29040-3000

Jabsco manual toilet pump for Jabsco toilets 507701 and 507703. 4 bolt fixing to base, comes complete with base valve gasket. Replaces all Jabsco manual toilet pumps. Please note: Old bolts would need to be re-used.



### Economy Electric Toilets

The Jabsco electric toilet is ideal for where space is limited and offers a stylish, modern look to your head.

- Stainless steel and bronze fasteners
- Pure white vitreous bowl
- Flushing pump self-priming up to 1.2 metres (4ft) vertical lift
- May be mounted 1 metre (3ft) below the waterline
- Equally suitable for overboard or holding tank discharge
- Built-in back flow preventer
- For installations fitted with vented loops use a solenoid valve
- Complies with USCG 183.410 and ISO 8846 marine (ignition protection)



507712

Part no.	Jabsco model number	Bowl type	Volts	Fuse size	Inlet mm	Outlet mm	Overall height mm	Overall width mm	Overall depth mm
507712	37010-0090	Compact	12V	25A	16-19	25-38	351	352	450
507714	37010-0096	Compact	24V	15A	16-19	25-38	351	352	450
507716	37010-1090	Regular	12V	25A	16-19	25-38	370	380	470
507718	37010-1096	Regular	24V	15A	16-19	25-38	370	380	470



#### 507719

This is the Jabsco 37040-0000 service kit. Includes seals and gaskets and is suitable for all the listed Jabsco electric toilets.



#### 507729

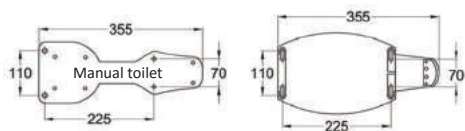
This is the Jabsco 90197-0000 service kit. Includes seals and gaskets and is suitable for Jabsco Quiet Flush series electric toilets.

## JABSCO Lite Flush Electric Toilets

Jabsco lite flush marine toilets are available with either a foot mounted switch (left or right fitting) or a wall mounted control panel currently used on the deluxe flush range of toilets. The installation of a new Jabsco lite flush toilet is quick and simple as the connection fixing points and hose attachments match the Jabsco manual toilet. The 507732 fits the same footprint as the Jabsco manual toilets (507701 or 507703). The Jabsco toilet switch can be operated once to fill the bowl, which can be left wet or dry, and press again to flush the toilet.

- Quiet and efficient flush pump
- Easy to clean
- Improved design with an aluminium pulley
- Lightweight and compact
- Compact bowl
- Stylish modern and contemporary design
- Slow close seat and lid
- Integral rinse and waste pump system
- Low water usage - 1.2 litres (1.3 US Quarts) per flush
- Low power consumption
- Complies with USCG 183.410 and ISO 8846 Marine (ignition protection)

Part no.	Jabsco model number	Comes with	Volts	Fuse size	Inlet mm	Outlet mm	Overall height mm	Overall width mm	Overall depth mm
507732	58500-0012	Foot switch	12V	25A	19	38	370	400	400
507734	58500-0024	Foot switch	24V	15A	19	38	370	400	400
507736	58500-1012	Control panel	12V	25A	19	38	370	400	400
507738	58500-1024	Control panel	24V	15A	19	38	370	400	400



The 'Lite Flush' footswitch version is a true retro-fit for the manual toilet. The Lite flush will completely cover the footprint of the manual toilet and has the same fixing points.

Fill may be touched when the bowl is 'Dry' to add water before use.

Flush rinses and empties the bowl twice after heavy use. If the bowl is 'Dry', touching 'Fill' first is recommended. This uses just 1.2 litres of water.



Slow close seat and lid



507736

## JABSCO Deluxe Flush Electric Toilet

The Jabsco deluxe flush toilets are a top of the range electric toilet for the marine industry.

- Concealed plumbing and wiring
- Powerful macerator pump
- Stylish compact design
- Regular sized bowl designed to replicate household toilets
- Can be mounted up to 1 metre (3ft) below the waterline
- Features a 17" straight vertical back to fit against a flat bulkhead or 14" for pedestal mounting
- One touch control panel
- Virtually silent operation, space saving design with no dirt traps
- Hygienic, pure white vitreous china bowl for ease of cleaning
- Complies with USCG 183.410 and ISO 8846 Marine (ignition protection)
- Available in two options:

### 1. Fresh water flush

Suitable for fresh water flushing and connects to the vessel's existing pressurised water system. A solenoid valve and siphon breaker assembly are also supplied.

Part no.	Jabsco model number	Water type	Volts	Fuse size	Inlet mm	Outlet mm	Overall height mm	Overall width mm	Overall depth mm
507762	58040-1012	Fresh water	12V	25A	19	38	440	370	445
507764	58040-1024	Fresh water	24V	15A	19	38	440	370	445

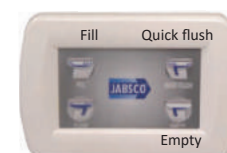
### 2. Raw water or fresh water flush

Suitable for raw or fresh water flushing and is supplied with a quiet running pump to bring in raw flushing water, as well as a Pumpgard strainer.

Part no.	Jabsco model number	Water type	Volts	Fuse size	Inlet mm	Outlet mm	Overall height mm	Overall width mm	Overall depth mm
JAB-58240-2012	58240-2012	Raw or fresh water	12V	25A	19	38	445	375	475
JAB-58240-2024	58240-2024	Raw or fresh water	24V	15A	19	38	445	375	475



507762



JAB-58100-2000

### JAB-58100-2000

Jabsco 58100-2000 service kit. Includes seals and gaskets and is suitable for all the listed Jabsco deluxe flush toilets.



JAB-29041-1000



JAB-29041-1000



JAB-29047-0000



JAB-29092-1000



JAB-29097-1000



JAB-29098-1000

## JABSCO Replacements

Part no.	Description
JAB-29040-3000	Jabsco manual toilet pump for Jabsco toilets 507701 and 507703
JAB-29041-1000	Plastic base for Jabsco manual toilets
JAB-29047-0000	Bowl mounting kit for base to bowl mounting of Jabsco toilets
JAB-29092-1000	Joker valve suitable for Jabsco manual twist 'n' lock toilets
JAB-29097-1000	Toilet seat and lid suitable for the 29040 range of Jabsco compact bowl toilets. Comes with all required fittings and hinges
JAB-29127-1000	Replacement seat and lid for Jabsco regular toilets
JAB-29098-1000	Hinge set suitable for Jabsco compact wooden toilet seat / lid assemblies



## Sanitising Units

SeaSmart is a total solution to eliminating bad odours in marine toilet systems, providing disinfected and sanitised water with every flush. When the toilet is flushed, the flow switch sends an electronic signal to the microprocessor which activates the sanitisation pump. If the toilet is subjected to long, continuous use the microprocessor recognises the excessive usage, and will ensure that the disinfectant container isn't emptied too quickly by supplying less sanitising liquid each time. Easy to install with basic DIY tools.



507695

### 507695

Refill pouch containing disinfectant liquid for SeaSmart sanitising units. A refill should last over a year on an average boat with average use, but time will reduce depending on usage.

Part no.	Water type	Connection tube (metres)
507691	Raw water	1.8
507692	Fresh water	1.8

2.5 metre length of tube can also be purchased separately if required, please contact us or visit [www.asap-supplies.com](http://www.asap-supplies.com)



507691

## JABSCO Toilet Fresh Cleaning Liquid



507672

### 507672

Jabsco marine toilet fresh cleaning liquid (1 litre).

Jabsco toilet fresh "clean and condition" marine toilet cleaner has been specially formulated for the marine environment making it safe for use with all toilet systems. The "clean and condition" toilet cleaner prevents scale build up, cleans the bowl and deodorises.

## JABSCO Diverter Valve



### JAB-45490-1000

The Y-shaped valve features rotatable ports that have 38mm (1-1/2") hose connections. Operated with a manual lever action and the lever is lockable (lock not included). (H) 120mm x (W) 180mm

## SHURFLO® Macerator Pumps

Designed specifically for sanitation waste and fish box evacuations.

- Premium impeller design with run-dry capability
- Seamless shell motor with O-ring sealed end bells
- Sealed manual turn key
- Unique dual blade and housing construction ensures problem free pumping
- Provides superior performance in harsh marine environments
- Thermally protected and ignition protected
- Dimensions: 274mm x 97mm x 114mm



509550

For more information on this pump or to view our large range of pumps, please see Pumps section, page 221. Alternatively, visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)

Part no.	Model number	Volts	Flow rate lpm	Inlet mm	Outlet mm
509550	3200-001	12V	49	38	25
509551	3200-011	24V	49	38	25

## JABSCO Macerator Waste Pumps

- Triple sealed motor to prevent both internal and external motor corrosion.
- New four-bladed chopper to reduce clogging.
- Detects the absence of fluid to automatically shut-off pump before the impeller is damaged.
- Sensor provides adequate run-dry period to allow initial priming of the pump.



507512



JAB-37072-0092

Part no.	Model number	Volts	Flow rate lpm	Inlet mm	Outlet mm
507512	18590-2092	12V	45	38	25
507524	18590-2094	24V	45	38	25

Suitable to be used with the Jabsco Quiet Flush series of toilets.

Part no.	Volts
JAB-37072-0092	12V
JAB-37072-0094	24V

## Diaphragm Pumps

Can be used as a bilge pump. Ideal for sink; shower and waste water transfer/pumping.

- Multi-positional ports for good "solids" handling ability
- Design allows extended dry running
- Robust, single diaphragm
- Can self-prime up to 3 metres vertical lift
- Does not require a filter
- Extremely quiet
- Rated for up to 30 minutes continuous running

Part no.	Model number	Volts	Flow rate lpm	Inlet / outlet mm
504486	50890-1000	12V	19	38
504488	50890-1100	24V	19	38



504486

For more information on this pump or to view our large range of pumps, please see Pumps section, pages 221. Alternatively, visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)

## Diaphragm Self Priming Bilge Pump

- Can be used as a bilge pump for waste water
- Robust, single diaphragm and joker valves make this pump ideal for sink and shower drain applications
- Multi-positional ports
- Design allows extended dry running, and can self prime up to 3 metres vertical lift
- Maximum recommended head is 6 metres
- Extremely quiet
- Rated for up to 30 minutes continuous running
- No strainer is required
- Jabsco service kit for 50880 series pumps - **504485**

Part no.	Model	Volts	Fuse size	Flow rate lpm	Hose size mm (inch)	Height mm	Width mm	Depth mm
504482	50880-1000	12V	10A	16	19 (3/4")	294	159	132
504484	50880-1100	24V	5A	16	19 (3/4")	294	159	132



504482

## Gulper Pumps

- Large single diaphragm
- Quiet running – low power consumption
- Run dry ability
- No filter required
- Self priming to 3 metres
- Multi-directional head

Part no.	Model number	Volts	Flow rate lpm	For hose I.D. mm (inch)	Service kit
504812	BP1552	12V	14	19	504829
504813	BP2552B	12V	18	38	504828
504815	BP2052	12V	19	19/25	504839
504824	BP154	24V	14	19	504829
504825	BP2554B	24V	18	38	504828
504827	BP2054	24V	19	19/25	504839



504815

For more information on this pump or to view our large range of pumps, please see Pumps section, page 220. Alternatively, visit our website at [www.asap-supplies.com](http://www.asap-supplies.com)

## Gulper IC Diaphragm Grey Waste Pump

The Whale Gulper IC is a high capacity waste pump with intelligent control electronics built in. At the heart of every Whale IC product lays innovative electronic control circuitry. The pump must be used with an IC accessory such as the Gulley IC or Two Way Manifold IC to communicate via electronic signals only when grey waste water needs to be pumped out.

- Secure fit - new wrap around mounting feature
- Head rotates 360° to suit your installation
- IC built in intelligent control microprocessor electronics sealed for protection against water ingress
- Pre-wired with waterproof electric connectors to prevent damage from capillary action and electrolysis
- No filter to block or clean non-choke valves
- Automatic control - received electrical signals to turn on / off as required
- Soft start protects the pump for long life
- Electronics enable use with lower current switches
- One pump handles waste from multiple drains
- Self-priming and runs dry
- Easy to install - including uneven surfaces
- Time delay to allow for optimum drainage
- Override wire included to allow for manual activation

Part no.	Model no.	Volts	Fuse size	Flow rate lpm	Hose size mm (inch)	Replacement head
504832	BP2082B	12V	10A	19	19-25 (1" to 1-1/2")	504839
504834	BP2084B	24V	5A	19	19-25 (1" to 1-1/2")	504839

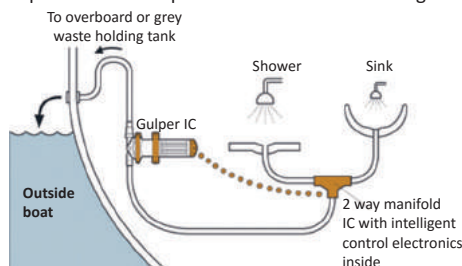


504832



## Gulley IC Grey Water Two Way Manifold

Two way manifold with Whale Intelligent Control built in. The IC manifold can be used with a Whale Gulper pump to create a grey water disposal system. The manifold accepts two waste inputs and senses water through the wall. This relays information to the Gulper IC pump to turn on and pump the waste water.

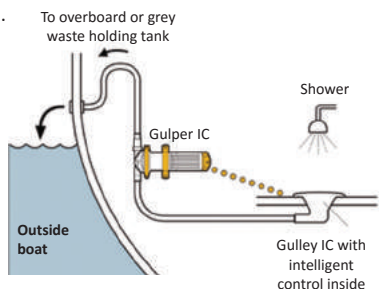


Part no.	Ports mm (inch)	Cable metres
506540	19 (3/4")	2
506541	19 (3/4")	4
506543	25 (1")	4
506544	38 (1-1/2")	2
506545	38 (1-1/2")	4



## Gulley IC Outlet For Grey Waste Water

The Whale Gulley IC is a small grey waste water outlet for showers with intelligent control electronics built in. Features an easy to clean cover and a sleek, modern design.



Part no.	Diameter	Cable metres
504842	82mm	4
504843	200mm	4

Supplied with 3/4" and 1" stepped hose connector with integral non-return valve.

## Marine Holding Tanks

We offer tanks and sumps suitable for holding waste water. Our range includes grey water tanks which are used with showers, baths, sinks and other such utilities, as well as black water waste which comes from the discharge of marine toilets. It is essential to store such waste until a time when you can safely and legally dispose of it. We offer rigid and flexible tanks from Vetus, as well as sump tanks from Jabsco, Rule, Johnson and Whale, please see our website at [www.asap-supplies.com](http://www.asap-supplies.com)



## Waste Water Tanks

Vetus grey plastic waste water holding tank for marine applications. These tanks allow you to store black water matter from toilets until the opportunity arises to safely discard of this water to a holding tank or sewer ashore. These tanks have a seamless construction and will never corrode or leak, and are made from a synthetic material suitable for use with waste water. These tanks are easily cleaned through the inspection lid, while the water level is visible from outside the tank. A connection kit should be ordered separately for each tank, together with additional inspection lids if required.

These holding tanks are not supplied with any fittings, giving you the freedom to fit the connections in any position and in any size. All fittings require a 42mm cut out and should be ordered separately.



V-ATANK110



V-ATANK042

### V-BTKIT

Fitting kit for use with all Vetus ATANK all-purpose tanks and Vetus BTANK waste water tanks.

Kit includes:

- 2 x securing straps
- 1 x inspection lid
- 1 x hose connection fitting key



V-BTKIT

### V-FTSL - Fitting key only

### V-VRF56A

Vacuum valve for Vetus waste water tanks 56mm

If a waste water tank is being emptied using a powerful shore based pump-out station, it is possible that the insufficient air entering through the vent line will cause the tank to implode.



V-VRF56A

### V-WTIKIT

This inspection lid is supplied complete with a gasket, counter flange and fastenings. Only suitable for drinking and waste water tanks.



V-WTIKIT

### V-WTK02 - Inspection lid only



511351



V-RT19B



511357



V-WTS37038B

Part no.	Capacity	Length	Width	Height
<i>Please note: Dimensions can vary +/- 2%</i>				
V-ATANK042	42 litres	460mm	350mm	290mm
V-ATANK061	61 litres	660mm	350mm	290mm
V-ATANK088	88 litres	800mm	400mm	330mm
V-ATANK110	110 litres	1200mm	350mm	290mm
V-ATANK137	137 litres	1200mm	400mm	330mm
V-BTANK137	137 litres	1200mm	400mm	330mm
V-ATANK170	170 litres	1100mm	440mm	400mm
V-ATANK215	215 litres	1000mm	400mm	600mm
V-ATANK335	335 litres	1700mm	700mm	350mm
V-ATANK390	390 litres	1400mm	800mm	400mm

### Accessories for Vetus Waste Water Tanks

Part no.	Description
V-RT13B	90° connector 13mm (RT13B)
511351	90° connector 16mm (RT16B)
V-RT19B	90° connector 19mm (RT19B)
511353	90° connector 25mm (RT25B)
511357	90° connector 38mm (RT38B)
V-WTS37038B	90° extraction pipe 370mm long, 38mm
V-WTS37038S	Straight extraction pipe 370mm long, 38mm
V-WTS78038B	90° extraction pipe 780mm long, 38mm



The listed connections above are stock items, straight connectors are also available.



## Waste Water Resistance Level Sender

Level sender for waste water with warning for low and high level. More senders available, please see Gauges section, page 165 or online.

Part no.	Size mm
704628	280
704630	300
704636	360
704657	570



704630

## **vetus** No Smell Waste Filters

Designed to fit in the vent line. These easy to install units contain a special element that absorbs odours, helping eliminate unwanted smells.

Part no.	For hose size mm	Length mm	Width mm	Height mm	Spare filter
V-NSF16S	16	107	111	111	V-NSF16FES
507870	16	148	150	162	507879
V-NSF19	19	148	150	162	507879
507872	25	148	150	162	507879
507874	38	148	150	162	507879



507872

## **SEAFLOW** Butyl Sanitation Hose

- Designed to lead the market as sewage pipe for marine toilets
- Smooth butyl inner prevents odour permeating into the boat
- Extremely flexible
- Designed specifically to meet standard D.M. 21/03/73 EEC directive 90/128 and update FDA
- Meets EU standard: ISO 8099 : 2000
- Temperature range: -40°C to +120°C
- Available in 40 or 20 metre coils or per metre cut from a coil

Per metre	Per coil -40 = 40 metres -20 = 20 metres	I.D. mm (inch)	O.D. mm	Bend radius mm	Working pressure bar (psi)	Burst pressure bar (psi)	Vacuum bar (psi)	Stainless steel 316 hose clip to suit
507819	507819-40	19 (3/4")	29	60	5 (72.5)	15 (175)	0.8 (11.6)	416205
507825	507825-40	25 (1")	35	80	5 (72.5)	15 (175)	0.8 (11.6)	416206
507838	507838-40	38 (1-1/2")	48	120	5 (72.5)	15 (175)	0.8 (11.6)	416209
507851	507851-20	51 (2")	61	175	5 (72.5)	15 (175)	0.8 (11.6)	416212



507819



Waste Water hose also available. For this and other hose, please see Hose section, page 181.



## Manual Sanitation Pumps

- Suitable for pumping waste materials
- Can be aligned in various positions or orientations
- Constructed from high quality ABS plastic which keeps in all smells, yet remains lightweight
- Features large non-choke valves that will not block
- Supplied with a removable handle

Part no.	Model number	Mounting type	Flow rate lpm	Inlet mm	Outlet mm
507220	BP0527	Bulkhead	56	38	38
507221	BP0535	Through deck	56	38	38



507220

For more information on this pump or to view our large range of pumps, please see Pumps section, page 218.



## Diverter Valves

- Whale 3 way diverter valve changeover valve and waste
- Non metallic construction
- IC valves also available



506571

Part no.	Hose size mm (inch)
506571	25 (1")
506572	38 (1-1/2")

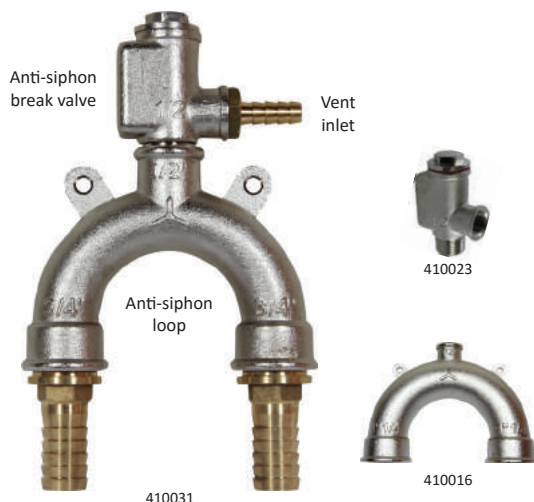
## **SEAFLOW** Plastic Vented Anti-Siphon Loop

- Made from polypropylene
- For marine toilet lines
- This is an important safety feature for installations where the toilet is below the waterline, ensuring that water can not flow backwards up the outlet hose and flood the toilet
- Features an air vent valve to prevent smells lingering inside the boat
- Also suitable for use in on board cooling systems



507619

Part no.	Hose size I.D. mm (inch)
507619	19 (3/4")
507625	25 (1")
507638	38 (1-1/2")



For hose tails to suit, please see Fittings section, page 127

For other anti-siphon devices, please see Fittings section, page 135.

## SEAFLOW Brass Anti-Siphon Loop and Siphon Break Valve

- Made from brass
- Use loop in conjunction with 410023 siphon break valve (see below)
- Typical applications for this anti-siphon loop are boat water intakes, exhaust injection lines and toilet systems where installed equipment is below the waterline
- Cost effective
- Custom make your system to meet your requirements

Anti-siphon Break Valve			
Part no.	Port BSP male	Port BSP female	Hose tail to suit
410023	1/2"	3/8"	404023 to 10mm hose

Anti-siphon Loops			
Part no.	Port BSP female	Vent BSP female	Hose tail to suit (2 required)
410014	3/4"	1/2"	404045 to 19mm hose
410015	1"	1/2"	404054 to 25mm hose
410016	1-1/4"	1/2"	404063 to 32mm hose

Maestrini Brass Anti-Siphon Device Kit Anti-siphon loop and breaker valve kit supplied with hose tails for a complete hose line anti-siphon installation.			
Part no.	Hose size	Vent line	Hosetail size
410031	19mm (3/4")	10mm (3/8")	19mm (3/4")
410033	25mm (1")	10mm (3/8")	25mm (1")
410035	32mm (1-1/4")	10mm (3/8")	32mm (1-1/4")



## Waste Tank Water Level Gauge



FAR-GP8050  
Euro Black

### FAR-GP8050

Euro black waste water tank level gauge features a black bezel and dial, white pointer and writing displaying empty to full, with Perimeter back lighting and a flat lens. Suitable for 12V DC electrical systems.

For more information on this gauge, please see Gauges section, page 164.



## Holding Tank Treatment



507670

### 507670

The Jabsco Odourlos holding tank treatment is suitable to use in any black water tank system to eliminate holding tank odours completely. The waste tank treatment contains enzymes, bacteria and surfactants to break down waste and tissue in the tank. Safe for use in marine environment.



## Shower Sump Grey Waste System

Designed for the collection of waste water from sinks and showers before pumping out overboard or to another waste water tank.

- Includes ports with multiple hose options to fit all existing plumbing systems
- Comes with Whale Orca 500 submersible waste water pump
- Contains a stainless mesh strainer which is removable for ease of maintenance
- Easy inspection of sump with a clear hinged lid
- Features a built in non-return valve
- 3 mounting brackets to secure in place
- Supplied pre-assembled and wired for quick and simple installation



504281

Part no.	Model	Volts	Inlet mm	Outlet mm	Dimensions (includes ports and feet)		
					Length mm	Width mm	Height mm
504281	GW0500	12V	19, 25, 28, 38	19, 25	348	217	130



## Rule Shower System

- See through inspection cover
- Comes with submersible pump and mercury free auto float switch
- Easy clean strainer
- Fully automatic pumping



504927

Part no.	Model	Volts	Inlet mm	Outlet mm	Dimensions (includes ports and feet)		
					Length mm	Width mm	Height mm
504923	97A	12V	38	19	210	285	140
504924	97A-24	24V	38	19	210	285	140
504926	98A	12V	19 to 38 multi-port	19	210	285	140
504927	98A-24	24V	19 to 38 multi-port	19	210	285	140



## Grey Water Tank

This versatile tank can be used with Whale Gulper pumps - See page 220.

It can be used to handle all waste water from showers, sinks, ice makers, air-conditioning units etc.

- Clear lid sits flush to top of the tank for easy inspection
- Only one through hull fitting is required for all grey waste
- Easy installation due to angled feed
- Colour coded wiring loom makes wiring simple
- Relay protected float switch mounted to side of tank means no internal wiring



504851

Part no.	Model	Volts	Litre Capacity	Inlet mm	Outlet mm	Dimensions (includes ports and feet)		
						Length mm	Width mm	Height mm
504851	GW0810	12 / 24V	8.15	3 x 19 3 x 25 3 x 38	1 x 19 1 x 25	350	350	170

## 4Dek Tank Shell Vents

- Made from chromed brass
- Suitable for use as a through bulkhead vent for fuel tanks, fresh water tanks and holding tanks
- Comes complete with a fixing nut and washer in brass

Part no.	Thread BSP male	Thread length mm	Overall length mm
305201	1/2"	72	94
305202	3/4"	75	95.5
305203	1"	77	101
305204	1-1/4"	78.5	104.5
305205	1-1/2"	79.5	112
305206	2"	91.5	126
With gauze			
305220	3/8"	70.5	91.5
305221	1/2"	72	94
305222	3/4"	75	95.5
305223	1"	77	101
305224	1-1/4"	78.5	104.5
305225	1-1/2"	79.5	112
305226	2"	91.5	126



305201



305204



305222



305226

## 4Dek Flush Tank Vent with gauze



305164

Part no.	Hose size I.D.	Thread size BSP male	Shape	Construction	Flame arrestor	Pressure rating
305164	16mm (5/8")	3/4"	Straight	Chrome plated brass	Yes	580 PSI (40 bar)

## 4Dek Tank Vents

Part no.	Description
305102	Straight for 16mm hose chromed brass
305106	90° down for 16mm hose chromed brass
305107	90° upwards 16mm hose chromed brass
305111	Straight for 19mm hose chromed brass



305102



305106



305107

## PERKO Tank Fuel Vent

Part no.	Description
305151	Straight for 16mm hose chromed zinc



305151

## Breather Nipples

Can be used for drinking water, fuel and waste water. Please see Fuel section, page 154



V-AB19B

## SEAFLOW Waste Outlet - Without Plug

- Plastic body with plastic or stainless steel top
- Straight or angled
- For 19mm I.D. hose
- Plug is sold separately - 511590

Type	Plastic top	Stainless steel top
Straight	511501	511502
90°	511511	511512



511511



511502

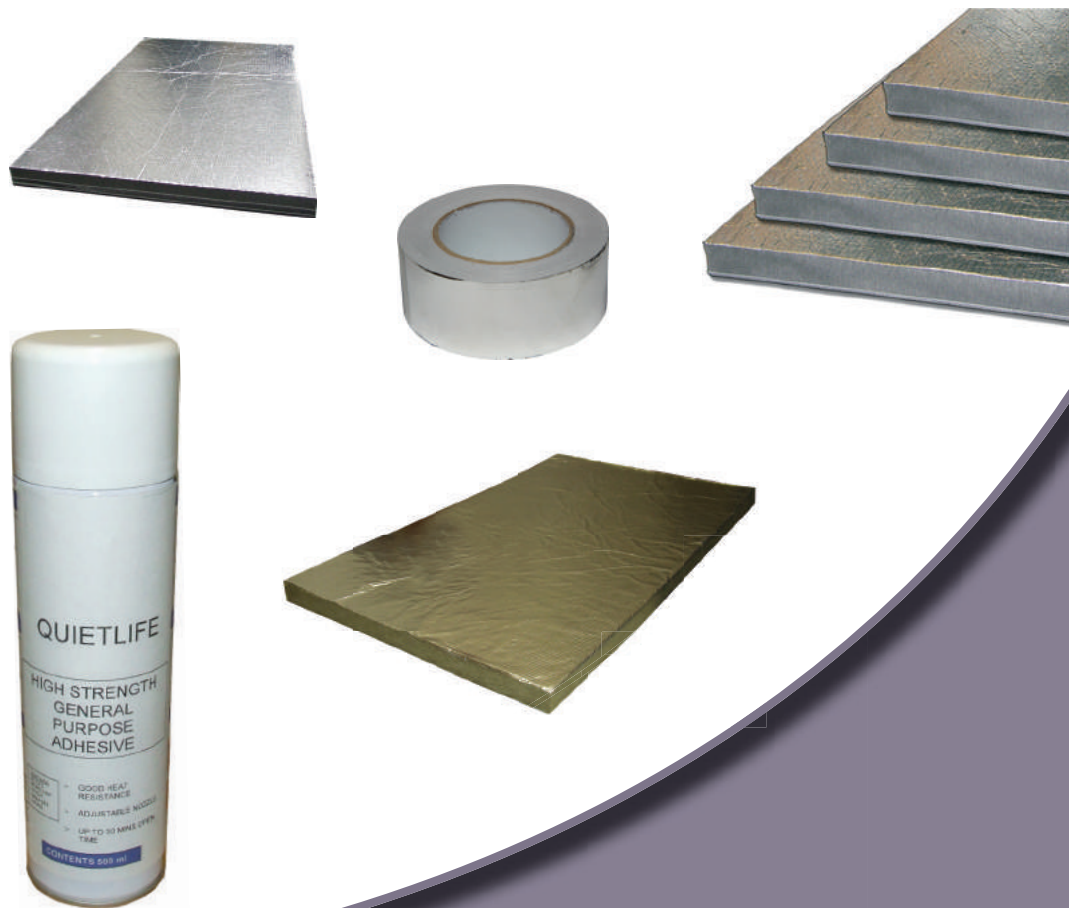
## SEAFLOW Waste Outlet - With Plug

- Plastic body with stainless steel top
- For 38mm aperture and 19mm I.D. hose
- Supplied with 38mm diameter plug

Type	Part no.
Straight	511503
90°	511513



511513



# SOUNDPROOFING

Damper Sheet	246
Fire Protection Sheets	246
Fixing Glue	246
Fixing Washers	246
Self Adhesive Tape	246
Soundproofing Sheets	245-246



## Foam Products Control Noise Using The Successful 'Barrier / Layer Principle'

Quietlife products have a name to live up to, which is why we choose only the best materials for our noise control products. Unlike some soundproofing products on the market, we have not compromised on the important noise absorption qualities. Others may look similar - but do they perform as well? Check out the facts first, we have nothing to hide...

### Note 1 - The Facing

We offer two facings as standard, both are RCD approved, being impervious to oil, water and diesel.

- 'O' foil facing - Fireproof to BS476, has a light reflective, reinforced silver finish and is our most popular type
- White glass cloth - Durable, hard wearing finish for engine rooms, walkways and lift hatches

### Note 2 - The Absorption Layer

Fireguard foam is black class 'O' fire foam with a fire rating to BS476 Part 6, 1998 and Part 7, 1971 (only Rockwool; meets BS476 Part 4, 1988 for Class V Vessels). It will not burn, even with a blow torch applied. It is high density to 96m<sup>3</sup> and offers the best in sound absorption. It carries class 'O' approval and it will help act as a fire barrier. Fireguard foam is an open cell foam ensuring the sound travels the furthest distance, and so offering maximum absorption. The absorption layer removes much of the high frequency sound and is offered in various options - see pages 245-246.

### Note 3 - The Barrier

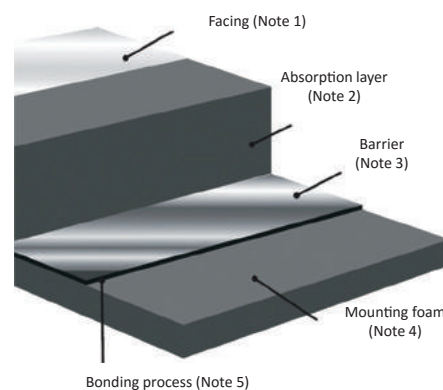
This is where some other soundproofing products lack the performance of Quietlife. Always check the weight of the barrier layer. For the best mass and low frequency sound absorption we use lead or 5kg/m<sup>2</sup> polymeric barriers. Some products on the market use only a 3kg or even 2kg barrier. More mass means more sound deadening. Lead is the best, but the modern lead loaded polymeric materials achieve almost the same result - and save money. Lead barrier is the preferred choice when fitting to a curved surface as it retains its shape, while polymeric prefers to stay flat. 2 Quiet types feature two 5kg lead loaded barriers to absorb high levels of low frequency noise.

### Note 4 - The Mounting Foam

This layer uses the same BS476 'O' foam as the absorption layer. Its purpose is to isolate the barrier from the mounting surface which helps eliminate noise transfer. A 6mm layer of mounting foam is used on all types.

### Note 5 - The Bonding Process

To make the familiar Quietlife product, the above materials are factory bonded to form a sandwich. The bonding process coats the material with adhesive, ensuring that the entire surface is fully coated. The coated materials are then pressed together using nip rollers to guarantee the strongest possible bond. This process has been designed to virtually eliminate delamination (break down of materials). We are extremely proud of the Quietlife quality and have purposely chosen this manufacturing method over cheaper alternatives in order to provide you with the best possible products.



All of our soundproofing is compliant to ISO 9094-1:2015



## Soundproofing

Soundproofing sheets are available in varying thickness's, which offer different sound absorption properties. The thicker the foam and greater the mass, the better the resulting noise absorption. Space, cost and sometimes weight limitations all play their part, but remember some soundproofing is better than none at all.

Soundproofing sheets can be mixed and matched to suit your thickness requirements. Simply contact us on 01502 716993.



Type	<b>Standard 32</b> Excellent general purpose, our most popular type	
Sheet thickness mm	32	
Sheets per pack	4	
Sheet size (approx.) mm	1000 x 600	
Coverage per box	2.4m <sup>2</sup> / 25.82ft <sup>2</sup>	
Typical sound reduction @ 500hz	24dB	
With 5kg / m <sup>2</sup> Polymeric Barrier		
Type	Box of 4	Single sheet
Silver 'O' foil	801434	801434-1
White glass cloth	801437	801437-1
With Lead Loaded Barrier		
Silver 'O' foil	801484	801484-1



Type	<b>Slimslab 23</b> General purpose, for when space is limited	
Sheet thickness mm	23	
Sheets per pack	4	
Sheet size (approx.) mm	1000 x 600	
Coverage per box	2.4m <sup>2</sup> / 25.82ft <sup>2</sup>	
Typical sound reduction @ 500hz	23dB	
With 5kg / m <sup>2</sup> Polymeric Barrier		
Type	Box of 4	Single sheet
Silver 'O' foil	801834	801834-1
White glass cloth	801837	801837-1
With Lead Loaded Barrier		
Silver 'O' foil	801884	801884-1



Due to manufacturing and transportation, the overall dimensions shown may vary by up to 4mm. Lead loaded types are usually 2mm thinner.



Type	<b>2 Quiet 45</b> The best for older engines and low frequency sound, twin barrier	
Sheet thickness mm	45	
Sheets per pack	2	
Sheet size (approx.) mm	1000 x 600	
Coverage per box	1.2m <sup>2</sup> / 12.91ft <sup>2</sup>	
Typical sound reduction @ 500hz	29dB	
With Lead Loaded Barrier		
Type	Box of 2	Single sheet
Silver 'O' foil	801534	801534-1
White glass cloth	801537	801537-1



Type	<b>Super 58</b> Excellent for turbo charged engines and higher frequencies	
Sheet thickness mm	58	
Sheets per pack	2	
Sheet size (approx.) mm	1000 x 600	
Coverage per box	1.2m <sup>2</sup> / 12.91ft <sup>2</sup>	
Typical sound reduction @ 500hz	26dB	
With Lead Loaded Barrier		
Type	Box of 2	Single sheet
Silver 'O' foil	801634	801634-1
White glass cloth	-	-



## Accessories



### 801002

- 500ml of Quietlife spray on neoprene based adhesive, sufficient for one four sheet box, 2.40m<sup>2</sup>
- Always test on a small area first to ensure suitability of the adhesive
- Please note: Carrier restrictions may apply



### 801014

- Self-adhesive 'O' foil tape for covering joints and edges
- 50mm wide
- Sold per 45 metre roll



### 801022

- These can be screwed through the sheet to the panel
- Recommended for under floor and vertical bulkheads
- 4mm fixing hole
- 50mm diameter



### 801018

- Self-adhesive foam tape
- Reduce noise from hatches and bulkhead doors
- 24mm wide x 3mm thick
- For sealing hatch joints
- Sold per 10 metre roll

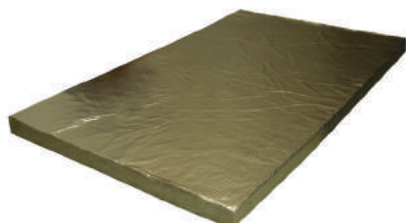


We recommend mechanical fixings are used where heavy weight soundproofing is fixed to vertical or upside down surfaces (ceilings etc). Especially where higher ambient temperatures exist, such as engine room applications. Full installation instructions can be downloaded at [www.asap-supplies.com](http://www.asap-supplies.com)



## Rockwool Marine FireBatt 2000

Certain regulating certification authorities insist on the use of non-foam products for fire barriers. For these applications, we supply Quietlife FireBatt Marine 2000 rockwool products.



801124

### 801124

- 40mm thick
- Has a fire rating of 60 minutes
- An 'O' foil face. The 'O' foil fireproof facing has a light reflective, reinforced silver finish.
- Sold per sheet
- Approximate sheet size: 1000 x 600 x 40mm



801093

For sound absorption we would recommend this lead damper layer.

### 801093

- 5kg polymeric damper sheet
- 3mm thick
- Sold per 1250 x 1050mm roll
- Also, ideal for use on floors under carpet to provide additional damping of low frequency sound



801025

### 801025

A self-adhesive pad that secures the spike to the bulkhead. Comes with a fixing square which secures the FireBatt sheet to the spike.

Soundproofing is only part of the sound reduction process, there are many other products you can use to reduce noise, such as, flexible shaft couplings, exhaust mufflers / silencers and flexible engine mounts.



# STEERING & CONTROLS

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251-253  
248-250  
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Cable Gaiters  
Cable Steering Helms  
Control Cables & Accessories  
Controls  
Engine Stop Cables  
Hydraulic Steering Oil  
Hydraulic Steering Systems  
Steering Cable  
Steering Hose  
Steering System Accessories  
Steering Wheels  
Tiller Arms  
Trim Tabs & Controls



606101

**606101**

## Seastar Teleflex 700SO

- Single lever, dual function combines throttle and gear change into one lever
- Neutral 'warm up' button for throttle only operation
- Surface mounting as the mechanism is covered by housing
- Mounting base can be angled through 180°
- Can be installed horizontally or vertically
- Use with 330 / 33C control cables

Overall height	Base width	Base height	Handle length
325 mm	150 mm	295 mm	200 mm



606105

**606105**

## Seastar Teleflex 700SM

- Single lever, dual function combines throttle and gear change into one lever
- Has a push button to select neutral
- Flush mount with a surface 15mm thick or less
- Can be installed horizontally or vertically
- Use with 330 / 33C control cables

Overall height	Base width	Base height	Handle length	Under dash length
415 mm	105 mm	160 mm	200 mm	120 mm



606103

**606103**

## Seastar Teleflex 700SS

- Single lever, dual function combines throttle and gear change into one lever
- Has a red push button to select neutral
- For flush mount with a surface 12mm thick or less
- Neutral safety switch (prevents starting in gear)
- Can be installed horizontally or vertically
- Use with 330 / 33C control cables
- Replacement handle available - **606103-4**

Overall height	Base width	Base height	Handle length	Under dash length
410 mm	110 mm	140 mm	195 mm	155 mm



607266

**607266**

## Seastar Morse SL3

- Single lever, dual function combines throttle and gear change into one lever
- Black satin finish
- Neutral 'warm up' button for throttle only operation
- Port or starboard mounting multiple cable entries
- Use with 330 / 33C control cables

Overall height	Base width	Base height mm	Handle length	Under dash width
260 mm	166 mm	110 mm	243 mm	330 mm



V-SISCO

**V-SISCO**

## Vetus SISCO

- Single lever, dual function combines throttle and gear change into one lever
- High-gloss polished stainless steel 316 lever and trim
- Flush mount on surfaces with a thickness of 16mm or less
- Adjustable handle friction with a 'start gear' protection micro switch neutral button
- Can be installed horizontally or vertically
- Use with 330 / 33C control cables

Overall height	Base width	Base height	Handle length	Under dash length
444 mm	130 mm	150 mm	200 mm	170 mm



V-SICO

**V-SICO**

## Vetus SICO

- Single lever, dual function combines throttle and gear change into one lever
- High-gloss polished stainless steel 316 handle with a black plastic trim
- Flush mount in surfaces with a thickness of 16mm or less
- Adjustable handle friction with a 'start in gear' protection micro switch neutral button
- Can be installed horizontally or vertically
- Use with 330 / 33C control cables

Overall height	Base width	Base height	Handle length	Under dash length
444 mm	130 mm	150 mm	200 mm	170 mm



607421

**607421**

## Multiflex LM-V-15

- Single lever, dual function combines throttle and gear change into one lever
- Tough metallic body and easy grip polyurethane handle
- Neutral lock in to prevent accidental gear engagement
- Flush side mounting
- Use with 330 / 33C and 430 / 43C control cables

Overall height	Base width	Base height	Handle length	Under dash length
350 mm	105 mm	232 mm	220 mm	120 mm



607341

**607341**

## Uflex B49

- Dual lever, single function provides one lever for throttle and one lever for gear change
- Side mount
- Kit to adapt to 330 / 33C cables - **607345**

Overall height	Base width	Base height	Handle length
280 mm	230 mm	110 mm	130 / 180 mm



#### 607280

Seastar Morse D2

- Single lever, single function
- Suitable for use with mechanical gearboxes
- Heavy duty rotary operation
- Suitable for use with UD617 control cables with 5-16UNF stainless steel rod end, please contact our sales team or visit [www.asap-supplies.com](http://www.asap-supplies.com) for further details



607280

Overall height	Base width	Base height	Handle length
290 mm	120 mm	120 mm	210 mm

### Drive Force

#### 607700

- Single lever, single function
- Durable heavy chrome finish handle
- Single function capabilities with reliable operation
- Suitable as a throttle or pump / clutch engagement control
- Use special industrial cables (**607703-607719**) see page 251 or online



607700

Overall height	Base width	Base height	Handle length
210 mm	78 mm	80 mm	140 mm



#### 607251

Seastar Morse STB

- Single lever, single function
- Durable heavy chrome finish
- Flush mounting with a surface 36mm or less
- Use with 330 / 33C or 430 / 43C control cables



607251

Overall height	Base diameter	Handle length
225 mm	64 mm	171 mm

### Drive Force

#### 607402

- Dual lever, single function, one lever for throttle and one lever for gear change
- Chrome finish
- Right or left side flush mounting on a surface with a thickness of 29mm or less
- External adjustable brake for throttle friction adjustment
- Comes with fittings to suit 330 / 33C control cables



607402

Overall height	Base diameter	Handle length
270 mm	70 mm	250 / 170 mm

### Drive Force

#### 607451

- Single lever, single function throttle or pump / clutch engagement control
- Durable heavy chrome finish
- Use with 330 / 33C control cables or 430 / 43C cable



607451

Overall height	Base diameter	Handle length
203 mm	64 mm	171 mm



#### 607351

Uflex B35

- Single lever, single function for throttle or pump / clutch engagement control
- Satin finish lever and housing
- Reliable operation
- Use with 330 / 33C control cables



607351

Overall height	Base diameter	Handle length
230 mm	80 mm	200 mm

## Top Mount Engine and Gearbox Controls



- Genuine Seastar Morse MT3 top mounted controls
- Warm-up is achieved by pulling out the hand lever in the neutral position
- Neutral start safety switch helps prevent starting in gear
- Finished in chrome
- Supplied with fittings for 330 / 33C cables



607201

#### 607201

Seastar Morse MT3 Single

For single engines, dual control over both throttle and gear. Conversion kit to 430 / 43C cables - **607209**

#### 607202

Seastar Morse MT3 Twin

For twin engines, dual control over both throttle and gear



607202

Part no.	Overall height	Base size	Height above base	Under dash length
607201	429 mm	93 x 155 mm	240 mm	219 mm
607202	429 mm	125 x 155 mm	240 mm	219 mm



#### 607231

Seastar Morse KL

- Single lever control
- Ideal for commercial and larger pleasure craft applications
- Manufactured in marine tested materials
- Splash-proof standards for interior and exterior installations
- Adjustable throttle damper prevents throttle creep
- Has a push button engine run in neutral facility
- Adjustable cable travel stops are easily accessible through removable top cover
- Use with 330 / 33C control cables



607231

Overall height	Base width	Base height	Handle length	Under dash length
460 mm	96 mm	115 mm	235 mm	200 mm



606115



- Has a push button to select neutral
- Suitable for mounting on top of a surface with the mechanism below
- Use with 330 / 33C control cables

**606115**

Seastar Teleflex 700 TS

Single lever, dual function control lever, combines throttle and gear change into one simple lever



606117

**606117**

Seastar Teleflex 700 TD

Twin lever, dual function control lever, dual function lever for each engine

Part no.	Overall height	Base width	Base height	Handle length	Under dash length
606115	413 mm	80 mm	105 mm	237 mm	155 mm
606117	413 mm	133 mm	105 mm	237 mm	155 mm



607365

- Twin lever, single function combines one lever for throttle and one lever for gear change
- Friction lock function to prevent throttle creep
- Water resistant construction
- Surface mount with the mechanism below
- Requires 2 extra clevis ends to connect cable when used in a loop system - see page 252
- Use with 330 / 33C control cables
- **607369** kit available to convert 430 / 43C cables



607362

**607365**

Uflex B102 - black finish

**607362**

Uflex B99 - black finish with chrome handles

Part no.	Overall height	Base width	Base height	Handle length	Under dash length
607365	488 mm	97 mm	80 mm	236 mm	267 mm
607362	488 mm	97 mm	80 mm	236 mm	267 mm



Suitable for mounting on top of a surface with the mechanism below. For use with 330 / 33C or 430 / 43C control cables.



607241

**607241**

Seastar Morse NB single

- Single lever, single function
- With simple drag adjustment by twisting throttle lever
- Reliable, heavy duty operation



607242

**607242**

Seastar Morse NB twin

- Twin lever, single function
- Simple drag adjustment by twisting throttle lever
- Combines one lever for throttle and one lever for gear change

Part no.	Overall height	Base width	Base height	Handle length	Under dash length
607241	430 mm	90 mm	115 mm	270 mm	150 mm
607242	430 mm	115 mm	115 mm	270 mm	150 mm



606501

**606501**

Kobelt 2046 Single

- Single lever, dual function combines throttle and gear change into one simple lever
- Connection kits are extra, order 2 x **606501-33** for 330 / 33C or 2 x **606501-43** for 430 / 43C cables



606510

**606510**

Kobelt 2009 Twin

- Twin lever, single function combines one lever for throttle and one lever for gear change
- Connection kits are extra, order 2 x **606510-33** for 330 / 33C or 2 x **606510-43** for 430 / 43C cables
- Has two different length handles: Throttle 178mm, gear 152mm



606511

**606511**

Kobelt 2004 Single

- Single lever, single function
- Connection kits are extra, order 1 x **606511-33** for type 33C cables or 1 x **606511-43** for 43C type cables

Part no.	Overall height	Max size mm (includes handles)	Base height	Handle length	Under dash length
606501	486 mm	105 x 152 mm	75 mm	211 mm	280 mm
606510	362 mm	156 x 133 mm	75 mm	178 mm	184 mm
606511	447 mm	154 x 108 mm	77 mm	225 mm	222 mm



607431

- Chrome housing
- Neutral lock in to prevent accidental gear engagement
- Built in friction drag to reduce slippage / throttle creep
- Neutral warm up button to run engine in neutral
- Surface mount with the mechanism below
- Use with 330 / 33C control cables

**607431**

Multiflex LM-V-3

Single lever, dual function combines throttle and gear change into one lever



607432

**607432**

Multiflex LM-V-4

Twin lever, dual function. One handle per engine.

Part no.	Overall height	Base size	Height above dash	Under dash length
607431	470mm	95 x 150mm	240mm	220mm
607432	470mm	123 x 150mm	240mm	220mm

**607272**

Seastar Teleflex Twin S

- Twin lever, single function - one lever for throttle and one lever for gear change
- Highly polished stainless steel cover and handle
- Top mount surface mount
- Use with 330 / 33C and 430 / 43C control cables



607272

Overall height	Base width	Base height	Handle length	Under dash length
340 mm	106mm	76mm	156mm	160mm

## Drive Force Control Cables

Control cables come in various makes, types and lengths according to the load required and the equipment involved. However, this is one area which is more standardised than most. For the majority of inboard engine applications, 330 prime (33C) cables are used. There are many makes, but generally, end fitting connections and cable travel are standard. 43C cables are less common, being more suited to larger vessels in the commercial sector. Outboard adaptor kits are shown on page 253 of this section.

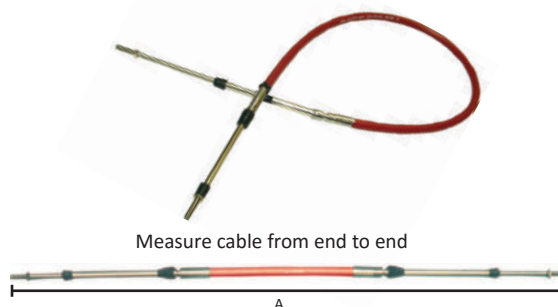
### 330X Prime Cables (33C superior) - Premium

- Unique design to maximise durability, precision and ease of operation in engine and gearbox control
- Red coat cable incorporates a splined core which allows a close fit with the inner liner of the cable but minimises contact. This reduces friction and results in easier movement and minimises lost motion
- Gives less backlash compared to other cables on the market
- Designed to replace 33C control cables with 3/16" UNF end fittings and features a red outer jacket
- Fully tested and proven to perform in extreme conditions or in complex installations
- Durability is tested by cycling the cables up to 1.3 million times, and all cables are lubricated and don't require any maintenance
- Includes double lip seals to keep out contaminants
- Designed for use as marine engine throttle cables, gearbox shift control (not for manual gearboxes) and light clutch and pump control applications
- Can be fitted to most outboard, outdrive and inboard engine / gearbox units.

### 430 Series Control Cables (43C)

- For heavy duty applications including commercial
- The heavy duty construction includes nylon coated inner core with specially formulated lubricant which is sealed for life with double lip seals
- Stainless steel end fitting and cable wire
- Standard rod 1/4" - 28 UNF threaded ends

Cable type	Minimum bend radius mm	Maximum push load N	Maximum pull load N	Cable travel mm (inch)	Cable thread end UNF
330 (33C)	200	178	222	76 (3")	3/16" (10-32)
430 (43C)	200	380	800	76 (3")	1/4" (10-28)



A metres	A feet	330 (33C) Series	430 (43C) Series
1.00	3'3"	610401	608401
1.25	4'1"	610402	608402
1.50	4'11"	610403	608403
1.75	5'9"	610404	608404
2.00	6'7"	610405	608405
2.25	7'5"	610406	608406
2.50	8'2"	610407	608407
2.75	9'0"	610408	608408
3.00	9'10"	610409	608409
3.25	10'8"	610410	608410
3.50	11'6"	610411	608411
3.75	12'4"	610412	608412
4.00	13'2"	610413	608413
4.25	13'11"	610414	608414
4.50	14'9"	610415	608415
4.75	15'7"	610416	608416
5.00	16'5"	610417	608417
5.25	17'3"	610418	608418
5.50	18'1"	610419	608419
5.75	18'10"	610420	608420
6.00	19'8"	610421	608421
6.25	20'6"	610422	608422
6.50	21'4"	610423	608423
6.75	22'2"	610424	608424
7.00	23'0"	610425	608425
7.25	23'9"	610426	608426

A metres	A feet	330 (33C) Series	430 (43C) Series
7.50	24'7"	610427	608427
7.75	25'5"	610428	608428
8.00	26'3"	610429	608429
8.25	27'1"	610430	-
8.50	27'10"	610431	608431
8.75	28'9"	610432	-
9.00	29'6"	610433	608433
9.25	30'3"	610434	-
9.50	31'2"	610435	608435
9.75	32'0"	610436	-
10.00	32'10"	610437	608437
10.50	34'5"	610439	608439
11.00	36'1"	610441	608441
11.50	37'9"	610443	608443
12.00	39'4"	610445	608445
12.50	41'0"	610447	608447
13.00	42'8"	610449	608449
13.50	44'3"	610451	608451
14.00	45'11"	610453	608453
14.50	47'6"	-	608455
15.00	49'3"	610457	608457
16.00	52'6"	610461	608461
17.00	55'9"	610465	608465
18.00	59'0"	610469	608469
19.00	62'4"	610473	608473
20.00	65'7"	610477	608477

### Industrial Control Cable

Special control cable suitable for the 607700 lever (see page 249)

A metres	A feet	330 (33C) Series
1.50	4'11"	607703
2.00	6'7"	607705
2.50	8'2"	607707
3.00	9'10"	607709
3.50	11'6"	607711
4.00	13'2"	607713
4.50	14'9"	607715
5.00	16'5"	607717
5.50	18'1"	607719

### Heavy Duty Control Cable

Part no.	Length metres	Thread	Cable travel mm
608613	4	5/6"	150
608617	5	5/6"	150
608621	6	5/6"	150
608625	7	5/6"	150



Please note: All cables listed are stock items, many others are available to order. Our full range is available online at [www.asap-supplies.com](http://www.asap-supplies.com).

**Drive Force Engine Stop Cables**

Stop cable with T handle

- Reinforced outer with single wire inner, plain wire end, stainless steel
- Supplied complete with T handle
- Designed to be through panel mounted
- Available in a range of lengths which can be cut if needed
- Cable end fittings are sold separately



608107

Part no	Metres	Feet
608105	2.0	6'7"
608107	2.5	8'2"
608109	3.0	9'10"
608111	3.5	11'6"
608113	4.0	13'2"
608115	4.5	14'9"
608117	5.0	16'5"
608121	6.0	19'8"
608125	7.0	23'0"
608129	8.0	26'3"
608137	10.0	32'10"
608145	12.0	39'4"
608157	15.0	49'3"

**Drive Force Clevis Ends**

- Screw thread to cables
- Jaw end for lever
- Supplied with split pin



609424

Part no.	Jaw mm	Pin mm	For cable
609220	4.8	4.8	330 (33C)
609222	7.1	6.4	330 (33C)
609223	8.7	7.9	330 (33C)
609420	4.8	4.8	430 (43C)
609422	7.1	6.4	430 (43C)
609423	8.7	7.9	430 (43C)
609424	11.1	9.5	430 (43C)
609626	9.5	9.5	UD617

**Drive Force Ball Joints**

- Screw stud fixing to lever
- Female thread fixing to cable end



609201

609202

Part no	Material	Type	Size stud	For cable
609201	Nylon	Standard	M5	330 (33C)
609202	Plated steel	Quick release	3/16"	330 (33C)
609203	Plated steel	Quick release	1/4"	330 (33C)
609204	Stainless steel	Quick release	1/4"	330 (33C)
609403	Plated steel	Quick release	1/4"	430 (43C)

**Universal Clamps**

For securing cable to a support bracket.

- For twin or single cables
- Quick release hook
- Choice of mounting positions

Part no.	Type	For cable
609241	Single	330 (33C)



609241

**Drive Force Stop Cable Accessories**

608199

609184



609111

609150

Part no.	Description
608199	Handle (spare replacement)
609184	Outer cable threaded mounting
609111	End nipple - 3mm lever
609150	Outer cable clamp kit

**Stop Cable Conversion Kit**

608297

Designed to convert the 330 (33C) series cable to operate as a push / pull stop cable for heavy load applications.

**608297**

Conversion DC kit and 'T' handle

**608298**

Side mount chromed bracket. Allows cable to be angle mounted.



608298

**Cable Clamp and Shim**

For securing the outer cable to the support bracket, permits end operation movement.



609235

609237



609231

609232



609239

For 330 (33C)	
Part no.	Description
609235	Clamp, shim and screw set
609237	Clamp, shim, screws and bracket
609231	Plated clamp only (shim extra)
609232	Plated shim only (for 609231 + 609431)
609239	Nut + bolt set, stainless steel

**For 430 (43C)**

Part no.	Description
609435	Clamp, shim and fixing kit
609431	Clamp only (shim extra)
609232	Plated shim only (for 609231 + 609431)



609431

609232

**End Pivots**

- Brass pivot
- Through lever mount
- Secured by split pin
- Screw thread to cable

Part no.	Description	For cable
609211	Pair for 3mm thick lever	330 (33C)
609212	Each for 6mm thick lever	330 (33C)
609411	Each for 3.2mm thick lever	430 (43C)
609412	Each for 6.4mm thick lever	430 (43C)



609211

**Control Cable Terminal Eyes**

Multiflex terminal eye for use with engine and gearbox control cables. (609272 - Where vibration isolation is required at the control head).

Part no.	Material	For cable
609271	Aluminium	330 (33C)
609272	Red plastic	330 (33C)



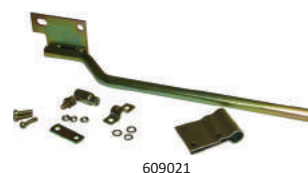
609271



## Gearbox Connection Kits

These kits provide all the fittings required to connect the end of a 330 (33C) control cable to a gearbox.

Part no.	Gearbox models	For cable
609021	PRM 101-1000	330 (33C)
609024	BorgWarner 71 + 72C	330 (33C)



609021

## SEAFLOW P-clips and Twin Clamp

For securing cables to bulkheads / walls.  
Closed diameter 9mm.

Part no	Description
413759	P clip - fits 33c cables
413760	P clip - fits 43c and 607713-719 cables
413758	P- clip - Fits stop cables
609262	Twin clamp with screw hole



413759



609262

More sizes and copper saddles are available, please see Hose section, page 186.

## Bow Thrusters

Bow thrusters, stern thrusters and accessories available too.

Please visit our website for more information at [www.asap-supplies.com](http://www.asap-supplies.com)



## Cable Gaiters

Part no.	Colour	Type	Size mm	Dia mm
609251	Black	Single	105	6-10
609252	Black	Twin	105	5-8
609256	Black	Single	102	10-18
609257	White	Single	105	6-10
609258	White	Twin	105	5-8



609256



609251



609258

## TUFLEX Outboard Connections

Outboard engine adaptor kits allows standard 330 (33C) cables and controls to fit engines.

Part no.	Type	Use with engine	Cable size
608290	4-K56	Mercury + Mercruiser	330 (33C)
608292	4-K57	Johnson + Evinrude	330 (33C)



608290



608292

## What do we mean by 'Dual Station'?

The term 'Dual station' refers to the control position (helm) of the craft. Most vessels are single station - one helm and control station. However, larger vessels are often dual station - i.e. two helms and control stations. The first is generally inside the cabin, and the second often located on the flybridge of pleasure boats, or near the working location of commercial vessels. Dual station kits are the components needed to link up and to control an engine from two positions. We offer three types of dual station configurations: lost motion, loop system and Morse change over. For more information on the below systems, please contact us on 01502 716993.

### Lost Motion

This simple to install system uses two kits, one fitted to the engine (609803 or 609804) and one to the gearbox (609801 or 609809), two single lever, dual function control heads and four quality control cables. To change from one position to the other, the operator needs only to have both controls in the neutral position.

### Gearbox Kits

#### 609801

Uflex dual station cable connection unit for gearboxes

- Accepts two standard 330 (33C) type cables
- Standard duty unit



609801

#### 609809

Drive Force dual station cable connection unit for gearboxes

- Heavy duty unit, brass / stainless steel construction
- Accepts two standard 330 (33C) cables



609809

### Throttle Kits

#### 609803

- Uflex dual station connection kit
- With brackets and long pivots
- Accepts two standard 330 (33C) cables
- Note that this is only suitable for throttles which pull to accelerate



609803

#### 609804

- Drive Force dual station connection kit
- With brackets and slotted connection ends
- Accepts two standard 330 (33C) cables
- Works with both push or pull throttle application



609804

### Loop System

The most simple system.

Requires one slave control to be connected to one master control, which is then connected to the engine and gearbox. It is possible to use most single function levers with good quality control cables.



To throttle  
To gearbox

Please contact us if you require any assistance.

## Change Over Components

A popular choice, but one which involves numerous components. A DS unit is required for both gearbox and throttle. The gear unit is then linked to a change over unit. These are linked to engine / gearbox and control head by seven cables. Supplied with fittings to suit 330 (33C) cables. Conversion kit to 430 (43C) available to order (609053). See below for components or please see our website for full assembly at [www.asap-supplies.com](http://www.asap-supplies.com).

Part no.	Unit type
609051	Gearbox DS
609052	Throttle DS
609056	Change over



609051

## Hydraulic Steering Systems

Hydraulic steering can be simply added on almost any vessel allowing multiple steering positions and autopilots.








The most important item for the hydraulic steering system is the steering cylinder (also known as the steering ram). It's important that the steering cylinder is sized correctly to the application. If the steering cylinder is too small the steering will be too stiff, the cylinder may leak or the steering may not work properly, especially in astern. If the steering cylinder is too big, there will be little feedback at the wheel.

Our team have specialist knowledge, allowing us to calculate the correct hydraulic steering system for your vessel. Please don't hesitate to contact us with any questions or for a detailed quotation.

### Hydraulic Steering Systems

For dual steering position, in order to change over from one position to another, the installation of non-return valves is required.

The ideal solution would therefore be the installation of two steering pumps, with integrated non-return valves. Another solution could be steering pumps without integrated non-return valves, and the installation of a separate non return valve block. In the case of single station control, installation of a steering pump without integrated non-return valve will suffice in most cases. This set-up will provide more feedback from the rudder to the wheel.

 <b>Steering Systems</b>		<b>HTP20</b> Capacity: 19.7cm <sup>3</sup> / rev Number of pistons: 5 Max. wheel dia: 40cm	<b>HTP30</b> Capacity: 30.0cm <sup>3</sup> / rev Number of pistons: 5 Max. wheel dia: 45cm	<b>HTP42</b> Capacity: 42.0cm <sup>3</sup> / rev Number of pistons: 7 Max. wheel dia: 50cm
Steering Pumps Without Non-Return Valve				
Helm pumps without non-return valves are ideal for single station (1 helm) applications. The lack of a non return valve allows full feedback to be felt through the wheel and minimises costs. If a second helm or autopilot is required, then a remote valve set will be needed.		<b>V-HTP2010</b> (10mm)  V-HTP2010	<b>V-HTP3010</b> (10mm)  V-HTP3010	<b>V-HTP4210</b> (10mm)  V-HTP4210
Steering Systems With Integral Non-Return Valve and Pressure Relief Valve				
Helm pumps with non-return valves can be used in multiple position installations and with autopilots, without the need for change over valves. The built in valves allow feel when turning the wheel, but prevent rudder kick back at the wheel.		<b>V-HTP2010R</b> (10mm) <b>V-HTP2010RB</b> (10mm)  V-HTP2010R V-HTP2010RB	<b>V-HTP3010R</b> (10mm) <b>V-HTP3010RB</b> (10mm)  V-HTP3010R V-HTP3010RB	<b>V-HTP4210R</b> (10mm) <b>V-HTP4210RB</b> (10mm)  V-HTP4210R V-HTP4210RB
<b>V-MTC5210</b>	Torque: 52Kgm (376ft/lbs) Capacity: 104cm <sup>3</sup> (6.3cu/in) Stroke: 160mm Fittings for 10mm tube	Wheel turns: 5.3	Wheel turns: 3.5	-
<b>V-MTC7210</b>	Torque: 72Kgm (521ft/lbs) Capacity: 146cm <sup>3</sup> (8.9cu/in) Stroke: 225mm Fittings for 10mm tube	Wheel turns: 7.5	Wheel turns: 4.9	Wheel turns: 3.5
<b>V-MTC12510</b>	Torque: 125Kgm (904ft/lbs) Capacity: 253cm <sup>3</sup> (15.5cu/in) Stroke: 160mm Fittings for 10mm tube	-	Wheel turns: 8.5	Wheel turns: 6.1
<b>V-MTC17510</b>	Torque: 175Kgm (1266ft/lbs) Capacity: 356cm <sup>3</sup> (21.7cu/in) Stroke: 225mm Fittings for 10mm tube	-	-	Wheel turns: 8.5
All rams listed are balanced rams with stainless steel piston and rod and a bronze case.				



V-MTC5210



V-MTC7210



V-MTC12510



V-MTC17510

#### Need help working out your hydraulic steering system?

Contact our sales department for a questionnaire.

Vetus helms are available in a black or white finish, we keep most versions in both colours.

## Hydraulic Steering For Outboards

A typical steering system for outboard motors consists of a steering pump with integrated non-return and pressure relief valves, plus a steering cylinder and connection hoses. The steering pumps are also provided with a continuous air bleeding point. The pump and the cylinder are connected with nylon hydraulic hose. For larger rams and more outboard systems, please visit [www.asap-supplies.com](http://www.asap-supplies.com).

<b>Technical data:</b> Max. op pressure: 70 bar Connections: G 1/4- Dia 10mm Nylon hose: Dia 8 x 12mm Pump fitting: Front mounting	<b>V-HTP2010R</b> Helm Capacity: 19.7cm <sup>3</sup> / rev Number of pistons: 5 Weight: 4.1kg	<b>V-HTP3010R</b> Helm Capacity: 30.0cm <sup>3</sup> / rev Number of pistons: 5 Weight: 4.1kg
<b>V-OBC125 - Steering ram</b> Max. rudder torque: 643Nm Volume: 108.3cm <sup>3</sup> Max. output: 90kW (125HP) Max. speed: 85km/h (45 knots)	Wheel turns Port - Starboard 5.5	Wheel turns Port - Starboard 3.6



V-OBC125

## Header Tank

### V-HTANK

This transparent tank can be installed with all steering helm pumps up to 89cm<sup>3</sup> per revolution. It is also recommended for electro-hydraulic hatch lifters, when operating more than one cylinder. It has a capacity of about 200cm<sup>3</sup> and is supplied with a large vented screw cap, for easy filling and a mounting bracket.

The tank comes complete with 1 metre of 8mm diameter hose, two matching hose clips, one G 1/4" and one G 3/8" nylon hose pillar.



V-HTANK

## Stainless Steel Flange Adaptor

- For use with the Vetus HTP helm pumps
- Constructed from stainless steel
- Supplied with a set of 4 stainless steel nuts, washers and bolts

Part no.	Recess depth size mm
V-HTPF	38
V-HTPF2	78



V-HTPF

## Steering Hose

The Seaflow SAE100 R7 black thermoplastic hydraulic steering hose is suitable for the delivery of hydraulic oils at high pressure.

Part no.	Bore (inch)	O.D.	Bend radius	Working pressure	Burst pressure
603508	8mm (5/16")	14mm	50mm	190 bar	780 bar

This steering hose is cut from a 100 metre coil. Orders of more than this will not be supplied as one single length of hose. For Vetus steering hose, please visit [www.asap-supplies.com](http://www.asap-supplies.com).



603508

## Re-usable End Fittings

Part no.	Size mm	Type
603511	10	Straight
603512	10	90°



603511



603512

## Bypass Valve

### Re-usable End Fittings

#### V-BYPASS10

- Supplied with compression fittings and olives for 10mm copper tubing cables
- For systems using Vetus HHOSE6 (6 x 10mm) nylon hose, order 4 x **HS145S** sleeve inserts



V-BYPASS10

## Hydraulic Oil For Steering Systems

*Drive Force*



603811





V-VHS1

Part no.	Type	Litres
603811	HV10 ISO10	1
603815	HV10 ISO10	5
603821	HV22 ISO22	1
603825	HV22 ISO22	5
603831	HV32 ISO32	1
V-VHS1	Vetus oil HF15	1



Please note

Always use oil of the correct grade for your system. If the oil is too viscous (thick), it can make the system stiff and heavy.



## Rudder Angle Indicator

- Displays the position of the rudder(s)
- Scale: Port / Centre / Starboard
- For 12V systems
- For 24V use adaptor FAR90315
- Hole size 52mm (2")
- Resistance values port: 10 ohms, starboard: 180 ohms



FAR12833  
Euro Black

For more styles and variations, please see Gauges section, page 171 for more information.

## Tiller Arms

These aluminium tiller arms are designed for connection to the rudder stock. The arm is attached to the shaft by two locking grub screws.

Part no.	For rudder shaft size mm
V-HELM30	30
V-HELM40	40



V-HELM30

## Marine Steering Wheels

Other wheels available, please visit our website [www.asap-supplies.com](http://www.asap-supplies.com)

**MULTIFLEX**


611212

*Drive Force*


611272

*Drive Force*


611275

### Padded Steering Wheels

Centre cap included.

Part no.	Diameter mm	Taper	Spokes	Type	Padding colour
611212	350	3/4"	5	Dished	Grey
611270	320	3/4"	5	Dished	Black
611272	350	3/4"	5	Dished	Black
611275	400	3/4"	5	Dished	Black



612610



612614



612616



612618



612620



611120



611128



611130



611132

**MULTIFLEX**  
THE ENGINEERED ADVANTAGE

### Sports Steering Wheels

These wheels have the advantage of being relatively low cost.

Part no.	Diameter mm	Taper	Spokes	Construction	Colour	Model
612610	350	3/4"	3	Plastic	Black	Alpha
612614	350	3/4"	3	Aluminium	Black	Gamma
612616	350	3/4"	3	Aluminium	Black	Delta
612618	350	3/4"	3	Aluminium	Black	Epsilon
612620	350	3/4"	3	Aluminium	Black	Zeta

**MULTIFLEX**

### Sports Steering Wheels

Part no.	Diameter mm	Taper	Spokes	Construction	Colour
611120	342	3/4"	4	Thermoplastic	Black
611122	335	3/4"	3	Thermoplastic	Black
611128	350	3/4"	3	Thermoplastic	Black
611130	280	3/4"	3	Thermoplastic	Black
611132	280	3/4"	3	Thermoplastic	White
611331	310	3/4"	3	Aluminium	Black



611721



611621



611724

### *Drive Force* Stainless Steel Steering Wheels

Part no.	Diameter mm	Taper	Spokes	Construction	Type
611721	320	3/4"	5	Stainless steel	Dished
611621	343	3/4"	5	Stainless steel	Dished
611724	380	3/4"	5	Stainless steel	Dished
611727	420	3/4"	5	Stainless steel	Dished



610114



610119

### *Drive Force* Traditional Spoked Steering Wheels

Part no.	Diameter mm	Taper	Spokes	Metallic trim	Replacement brass centre cap
610114	370	3/4"	6	No	610198
610117	520	3/4"	6	Yes	610199
610119	600	3/4"	6	Yes	610199



Steering wheel diameters shown are to the outside of the rim, or in the case of spoke wheels, from spoke tip to opposite spoke tip.

### Brass Centre Caps

Part no.	Steering wheels (mm)
610198	370 - 420
610199	490 - 520



610198

## Drive Force Steering Wheel Accessories

Clamp on spinner handles.

Part no.	Type
610091	Black plastic
610092	Stainless steel



### 610290

This Vetus shaft adaptor for steering wheels. Converts a 3/4" taper helm to 1" Vetus taper.



## Cable Steering System

A typical cable steering system consists of:

### Steering Helm

The steering helm is a gearbox arrangement mounted on the dashboard of the boat. All have a 3/4" standard tapered shaft. Wheel is mounted on the shaft of the helm to operate the mechanical gearing and cable.

### Steering Cable

The steering cable is a push / pull mechanical cable which converts the rotary motion of the helm to linear motion at the engine / rudder. One of the cables is connected to the helm and the other to the end of the rudder.

### Bezel Kit

The bezel kit is a plastic part with related hardware which is mounted between the steering wheel and dashboard to cover the helm hardware.

### Connection Kit

Connection kits are used to connect the steering cable to the engine / rudder.



Steering Helm  
See page 258



Steering Cable  
See page 258



Bezel Kit  
See page 258



Connection Kit  
See page 259

## How To Select The Correct Steering System





In order to ensure proper functionality of the mechanical steering system and safety of the boat, the selection of the correct steering system becomes a critical exercise.

Due to various combinations of engine and boat configurations, the following need to be considered while selecting the steering system.

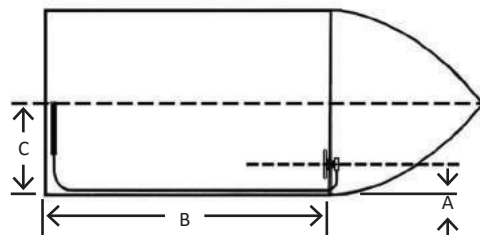
- Boat speed
- Engine power
- Engine type
- Displacement
- Boat size
- Hull type

Higher engine power or boat speed increases the load on the steering system due to higher torque generated by the propeller. Bigger boats with inboard engines and higher displacement hulls have higher rudder loads and may require hydraulic steering systems.

Selection guide for Multiflex mechanical steering systems:

Application	Boat length	Steering helm	Steering cable
Inboard 	Up to 35 feet (10.5 metres)	612011	6123**
		612021	6123**
Outboard 	Up to 30 feet (9 metres)	612015	6123**
		612041	6123**
Sterndrive power assisted 			(Use adaptor 612191)
	Engine Power		
Outboard 	Up to 40kW (55Hp)	612000	6124**

## How To Measure For New Steering Cable



1. Add A + B + C
2. Subtract 10cm for each 90° bend in the cable
3. For installation through the engine tilt tube, add 30.5cm to the measurement calculated above.

### Tilt tube mounting - Fig 1

Example (dimensions in cm):

A (50) + B (250) + C (80) = 380 - 20 for two 90° bends = 360 + 30.5 for a through-tube installation = 390.5cm = order 4.00 metre length.

### Transom support or splashwell mounting - Fig 2, 3

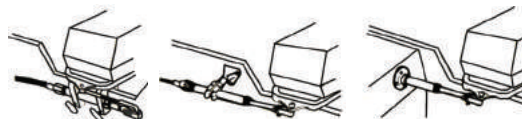
Example (dimensions in cm):

A (50) + B (250) + C (80) = 380 - 20 for two 90° bends = 360 = order 3.75 metre length.

Diagram 1

Diagram 2

Diagram 3



## How To Measure For Replacement Steering Cable

### Length to order

"D" Dimension + 56cm = Round up to the next 0.25m increment.

Example: D = 305cm + 56cm = 361cm

Order 3.75 metre length.





## Light Duty Helms

Multiflex marine cable steering helms. Replaces most brands of the popular plastic helm.

- Designed for single outboard engines up to 40kW (55Hp)
- Compact design with adjustable mount
- Shaft and gear are constructed from high pressure die cast zinc alloy
- Suitable for use with Multiflex SC-18 (6124\*\*) light duty steering cables or equivalent brands
- Bezel and fittings for this steering helm are included
- Taper: 3/4" maximum steering wheel diameter: 375mm
- Steering wheel turns: approx. 2.5 (lock to lock)



612000

Part no	Description
612000	Black alloy body



## Heavy Duty Helms

Heavy duty helms with shaft constructed from galvanised steel and helm covers made from a high pressure die cast zinc alloy. These helms require a bezel kit, please order separately (see below).

- Maximum boat length: 9 metres (outboard), 10.5 metres (inboard)
- Maximum steering wheel diameter: 400mm
- Taper: 3/4"
- Shaft length: 125mm
- Steering wheel turns approx. lock to lock: 4



612011

612015



612021

612041

Part no.	Multiflex no.	Engine application	Feedback*	Threaded connection	Suitable cable
612011	LM-H-101	Single	Yes	No	6123** (SC-16)
612021	LM-H-102	Twin**	Yes	No	6123** (SC-16)
612015	LM-H-101-NR	Single	No	No	6123** (SC-16)
612041	LM-H-401	Single	Yes	Yes	6123** (SC-16) (use adaptor 612191)

\*Please note: No feedback means the helm is locked in position unless wheel is turned.

\*\* Recommended where boat speed exceeds 50 MPH.



## Bezel Kits

Bezel kits for 612011, 612015, 612021 and 612041 helms.

- Mounts between the steering wheel and dashboard
- Plastic bezel covers the hardware of the steering helm
- Available in black or white finish



612091

612093

Part no.	Colour	Angle
612091	Black	90°
612092	Black	20°
612093	White	90°



## Steering Cable

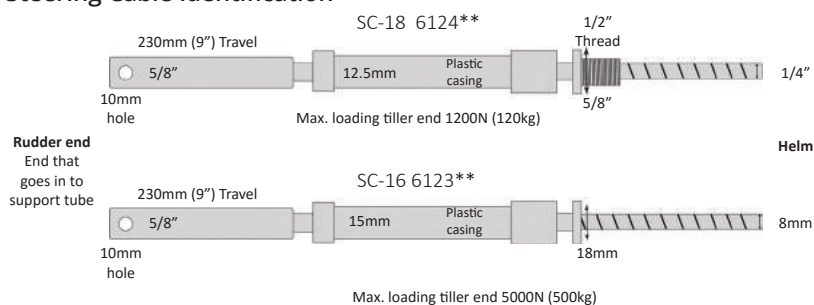
- Maximum travel: 230mm (9")
- Minimum bend radius 200mm (8") for both cables

Cross reference with	Teleflex	Ultraflex
SC16 6123**	SSC62	M66
SC18 6124**	SSC1300	M58



Light duty SC-18	Heavy duty SC-16	Length ft	Length metre
612408	612308	8	2.44
612409	612309	9	2.74
612410	612310	10	3.05
612411	612311	11	3.35
612412	612312	12	3.66
612413	612313	13	3.96
612414	612314	14	4.27
612415	612315	15	4.57
612416	612316	16	4.88
612417	612317	17	5.18
612418	612318	18	5.49
612419	612319	19	5.79
612420	612320	20	6.10
-	612322	22	6.71
-	612323	23	7.01
-	612324	24	7.32
-	612326	26	7.93
-	612328	28	8.53

### Steering Cable Identification



## Steering Accessories



### Mounting Clamp

- Designed to support the cable on its way to the outboard motor
- Supplied with a tube for the cable to pass through, which secures the cable and ensures it performs accurately and precisely

Part no.	Mounting	Stand off gap mm
612120	High / low	90 / 51
612121	Low	55
612122	High	117
612123	Adjustable	90
612124	Splashwell	-



### Connection Kit

#### 612131

Multiflex cable end clevis connection kit designed to connect Multiflex and other makes of steering cable at the engine end.



612131



### Steering Helm Adaptors

#### 612191

- Designed to convert single threaded helms into easy connecting systems
- Can be used to connect the threaded helm (612041) to heavy duty steering cables. (SC-16 6123++)



612191



### Link Arms

- Designed to connect the steering cable to the outboard engine of your boat
- Suitable for the most popular brands of outboard motors
- Feature permanently lubricated rod ends for faultless operation
- Also includes a dust wiper boot, nylock nut and a 3/8" mounting bolt

Part no.	Type
612141	Stainless steel
612144	Stainless steel, adjustable (320-355mm)
612146	Mild steel, for Yamaha engines



612141



612146



### Gaiters

For the protection of steering cable through a bulkhead. These rubber gaiters create a protective pathway for the cable to flow through.

Part no.	O.D. mm	Hole diameter mm	Height mm
612901	107	-	60
612902	105	12	65
612903	150	12	115
612904	100	12	105
612905	90	-	100
612906	117	55	70
612907	152	85	92
612908	138	18	55



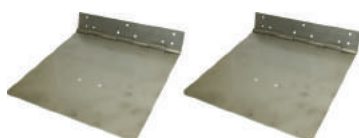
## LECTROTAB Trim Tabs

Keep your boat on the level. A refreshing change to the conventional hydraulic trim tabs.

- Simple to fit
- No oil - so no leaks
- Lifetime warranty on standard actuators
- 5 years on the rest of the Lectrotab range
- Requires no maintenance
- Permanently sealed
- A non-hydraulic trim tab actuator which cannot corrode
- Will continue to operate with a fouled ram
- Has strong deploying as well as retracting power
- With no components to install inside the boat, original installation time is greatly reduced
- The positive 'stop and lock' drive mechanism allows precise positioning
- Absolute lock against tab deflection when backing down or if the tab is used as a boarding step

Follow these 3 simple steps to find the correct trim tab system for your vessel:

### LECTROTAB Step 1 - Choose your tab size



616312

Here is a small selection of the trim tabs sizes available. For help selecting the correct tab size, please contact us with your boat length and planning speed.

More sizes and alloy tabs are available, please visit [www.asap-supplies.com](http://www.asap-supplies.com).

Trim Tabs		
Part no.	Size (inch)	Size (mm)
616312	12 x 12	305 x 305
616318	12 x 18	305 x 457

*Each part number contains a pair, you will require one pair to complete most installations.*

### LECTROTAB Step 2 - Choose your actuators



616825

Pair of 8 second actuators Comes with 7 metres (23ft) of cable.			
Part no.	Seconds	Voltage	Fuse
616813	8	12V	20A
616825	8	24V	10A

*Each part number contains a pair, you will require one pair to complete most installations.*

Replacement single actuator With 1.8 metres of wire (6ft)		
Part no.	Second	Voltage
616812	8	12
616824	8	24

### LECTROTAB Step 3 - Choose your control device



616952



616677

Part no	Voltage	Type	Overall height mm	Overall width mm	Mounting hole mm
616950	12 / 24V	Single station	82.5	79.4	57 x 51
616952	12 / 24V	Dual station	82.5	79.4	57 x 51
616677	12 / 24V	Up to 6 stations	86	100	51 x 63.5



## Trim Tab Wires and Cable



733413-E

Part no	UL listed Marine cable	Meters
733411-E	4 core	10
733413-E	4 core	30

We stock spares including fuses and single tabs. Contact us or visit [www.asap-supplies.com](http://www.asap-supplies.com)



616982

**616982**  
Lectrotab wire and hardware bundle  
6.1 metres of cable.

**Need help or advice?**  
Contact our Customer Support team, we will be happy to help you.



# VENTILATION

264  
264  
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Air Vents  
Clamshell Vents  
Cowl Vents  
Ducting Hose  
Inline Blowers  
Mushroom Deck Vents  
Snail Cam Blowers  
Tank Vents

## Inline Ventilation Blowers

Inline blowers are mounted directly into the air conduit, making installation very simple. The inline blowers typically use smaller motors compared to snail cam blowers, however with new motor technologies available, some of the inline blowers available today are well suited to commercial applications.

Inline blowers are not only suitable for engine rooms, they can also be used in bilges, heads and the galley compartment. We can also supply ducting hose, vent outlets, gratings and switch panels to suit.

### SHURFLO® Inline Blowers

The SHURflo YellowTail inline ventilation blowers have a unique nylon fan that includes 6 blades to ensure high performance and efficient ventilation. Installation of the YellowTail inline blower is made easy with extended barbs and a slotted mounting bracket. The motor and wires are sealed for corrosion resistance and the motor shaft is also sealed to ensure protection from moisture and prolong lifespan.

- Ignition protected
- Cable ties provided
- USCG 183.410 compliant
- NMMA type accepted ABYC
- CE listed, rated for continuous duty
- Complies with ISO 9097 Marine



716754

Part no.	Model no.	Size	Volts	Max amps	Recommended fuse size (amp)	Length mm	Height mm	Width mm	Flow rate m³ /min
716750	277-3110	3" (76mm)	12V	3.8A	5A	130	96	140	3.4
716754	277-4110	4" (102mm)	12V	5.5A	7A	130	122	162	6.2

### JABSCO® Inline Blowers

These blowers are made from corrosion resistant materials, including a nickel plated motor, to extend life and maintain performance. The motor shaft is also sealed for moisture protection. All this makes the Jabsco Rule blowers very efficient ventilators which can handle high volumes of air flow. They can be simply installed in any position on any flat surface to suit the application for which it is being used.

- Quiet and compact
- Low current draw
- Cable ties provided
- USCG 183.410 compliant
- NMMA type accepted ABYC
- CE listed, rated for continuous duty
- Complies with ISO 9097 Marine



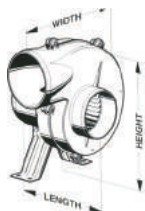
716708

Part no.	Model no.	Size	Volts	Amp draw	Recommended fuse size (amp)	Length mm	Height mm	Width mm	Flow rate m³ /min
716704	140	3" (76mm)	12V	2.9A	4A	130	95	125	3.8
716705	140-24	3" (76mm)	24V	1.7A	2.5A	130	95	125	3.8
716706	240	4" (102mm)	12V	4.3A	7A	130	120	150	6.7
716708	240-24	4" (102mm)	24V	2.4A	4A	130	120	150	6.7

## Snail Cam Blowers

Snail cam blowers are available in two mounting options, either directly to the hose or to a flange on the bulkhead. Featuring a more robust motor than inline blowers, these blowers are perfect for heavy duty or commercial applications. Suitable for engine rooms, but they can also be used in bilges, heads, and the galley. We can also supply ducting hose, vent outlets, gratings and switch panels to suit.

- Flexmount and flangemount options
- Made from corrosion resistant materials
- Nickel plated motor, to extend life and maintain performance
- Sealed motor shaft for moisture protection
- Can handle high volumes of air flow
- Marine and ignition protected
- Quiet and have a low current draw
- Give higher output in more complex installations, such as those with long lengths of ducting hose or those with multiple bends



716734

### JABSCO® Flexmount Blowers

These blowers are suitable for flexible mounting where a bracket is used to mount the blower to any solid surface.

Part no.	Model no.	Size mm (inches)	Volts	Amp draw	Recommended fuse size (amps)	Length mm	Height mm	Width mm	Flow rate m³ /min
716731	35515-0010	76 (3")	12	4.3	6	170	140	130	3
716732	36740-0000	76 (3")	12	6.5	10	200	230	220	4.2
716734	36740-0010	76 (3")	24	3.3	5	200	230	220	4.2
716716	35440-0000	102 (4")	12	12	15	230	250	240	7
716718	35440-0010	102 (4")	24	5.3	7.5	230	250	240	7
716726*	35770-0092	102 (4")	12	11	15	230	250	240	7
716728*	35770-0094	102 (4")	24	6	10	230	250	240	7

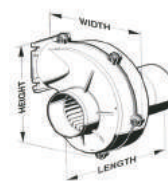
\*Heavy duty, designed for continuous duty

## JABSCO Flangemount Blowers

These blowers are suitable for flange mounting which installs directly onto the bulkhead.

Part no.	Model no.	Size mm (inches)	Volts	Amp Draw	Recommended fuse size (amps)	Length mm	Height mm	Width mm	Flow rate m <sup>3</sup> /min
716710	34739-0010	76 (3")	12	6.5	10	200	200	170	4.2
716711	34739-0020	76 (3")	24	3.3	5	200	200	170	4.2
716712	35400-0000	76 (3")	12	12	15	220	230	220	7
716714	35400-0010	102 (4")	24	5.3	7.5	220	230	220	7
716722*	35760-0092	102 (4")	12	11	15	240	230	220	7
716724*	35760-0094	102 (4")	24	6	10	240	230	220	7

\*Heavy duty, designed for continuous duty



716710



*The inline blower units are suitable for extraction and are not approved for fitment to inlet vents for engine intake. All marine engines are able to draw sufficient air to operate efficiently, provided that the vent openings are adequate. The purpose of these extraction blowers is to remove air / fumes from the engine room once the engine is stopped. Extraction ventilators should never be operated when the engine(s) are running. The suction power of the engine(s) may over-rotate the ventilator and cause the electric motor to burn out.*

## Cowl Vents

Cowl air vents for deck mounting. These vents protrude above deck and are suitable for handling large volumes of air due to their shaped openings.

### V-SCIROCCO

The Vetus SCIROCCO stainless steel shell ventilator can be screwed directly on to the hull or superstructure. The vent comes with a plastic base plate, complete with water guard and hose connection. Can be installed both horizontally or vertically. The SCIROCCO is the ideal solution for ventilation openings to the engine room.

Hose connection: 76mm (3")

Overall height: 100mm

Overall length: 132mm

Free flow area: 385mm<sup>2</sup>

Height above the mounting face: 50mm



V-SCIROCCO

### 813521

Perko cowl ventilator (model 1312) made from chrome plated zinc alloy with a black plastic base. The ducting hose connects to the neck without the need for hose clamps.

Hose connection: 76mm (3")

Overall height: 67mm

Overall length: 146mm

Cowl opening: 203mm<sup>2</sup>

Width: 111mm



813521

## SEAFLOW Ducting Hose

- Flexible PVC coated glass fibre ducting hose with built-in steel spiral
- Suitable for heating and ventilation systems
- Brilliant resistance at both high and low temperatures
- Vacuum: 2 bar
- Very flexible making it ideal for use in bilges, engine compartments, galleys and head installations



716876



716876

Per metre	10 metre coil	I.D. mm (inch)	O.D. mm	Temperature range °C	Stainless steel 316 hose clip to suit	Cable ties
716876	716876-10	76 (3")	80	-20 to +70°C	416214	715013
-	716891	100 (4")	105	-10 to +70°C	416216	715015

## Onboard Ventilation

### Why is ventilation on unattended boats so important?

Unattended boats make perfect moisture traps due to the different temperatures in and around the boat. When two different temperatures meet, moisture in the atmosphere can build up, especially on surfaces, and this moisture can quickly start to cause problems. Moisture makes an ideal breeding ground for bacteria, which then turns into mould - and mould doesn't only look bad, it smells bad, damages your boat and makes the inside of your boat an unhealthy place to live. This is why when ventilating a boat you need to do more than just move the air around the main compartments, you need to try and keep all compartments, including the small areas you never see or think of, ventilated.

## 4Dek Surface Mount Louvered Air Vents

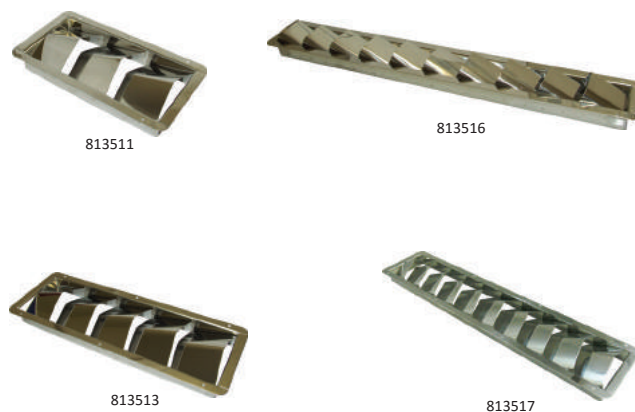
Stainless steel and plastic constructed air vents are available from our 4Dek range. Louvered vents offer high volume ventilation and can be used for ventilating bilges, deck boxes, fuel lockers, storage lockers, or behind electronics. Large louvered vents are commonly installed on the side of the engine room allowing air to naturally get to the engine.

Part no.	Length mm	Width mm	Material
<b>With flyscreen</b>			
<b>813591</b>	115	127	Polished S/steel
<b>813592</b>	67	127	Polished S/steel
<b>813593</b>	128	232	Polished S/steel
<b>813594</b>	232	127	Polished S/steel
<b>813595</b>	76	152	Polished S/steel
<b>813596</b>	76	229	Polished S/steel
<b>813597</b>	116	340	Polished S/steel
<b>Without flyscreen</b>			
<b>813570</b>	201	100	Black plastic
<b>813571</b>	260	125	Black plastic
<b>813572</b>	260	125	White plastic
<b>813531</b>	127	65	Polished S/steel
<b>813533</b>	127	114	Polished S/steel
<b>813537</b>	228	127	Polished S/steel
<b>813581</b>	115	127	Polished S/steel
<b>813582</b>	67	127	Polished S/steel
<b>813583</b>	118	230	Polished S/steel
<b>813584</b>	232	127	Polished S/steel
<b>813585</b>	76	152	Polished S/steel
<b>813586</b>	76	229	Polished S/steel
<b>813587</b>	116	340	Polished S/steel

## 4Dek Recess Mount Louvered Air Vents

Large capacity louvered air vents without flyscreen from the 4Dek range. These air vents feature large projecting louvers to allow high volumes of air flow in and out. This makes the air vents ideal for ventilating engine rooms and other similar boat areas.

Part no.	Recess cut out mm	Length mm	Width mm	Projection mm	Material
<b>813511</b>	185 x 90	210	113	23	S/steel
<b>813513</b>	302 x 90	325	113	23	S/steel
<b>813515</b>	300 x 53	325	76	27	S/steel
<b>813516</b>	503 x 53	525	76	27	S/steel
<b>813517</b>	501 x 90	525	112	27	S/steel



## Clamshell Vents

Clamshell vents are often used to disguise or protect the top of through hull vents and hull fittings such as fuel tank vents or deck drain scuppers.



813502



813510

4Dek

Part no	Base dimensions mm	Opening height mm	Opening width mm	Material
<b>813502</b>	195 x 170	75	145	Stainless steel
<b>813505</b>	41 x 44	12	28	Stainless steel
<b>813506</b>	57 x 54	16	33	Stainless steel
<b>813508</b>	93 x 87	25	65	Stainless steel

**PERKO®**

Part no	Base dimensions mm	Opening height mm	Opening width mm	Material
<b>813509</b>	43 x 38	11	22	Chromed brass
<b>813510</b>	51 x 51	14	48	Chromed brass

4Dek

## Solar Deck Vents

- Powered by solar energy
- NiMH rechargeable batteries that store energy during the day
- Stainless steel construction
- 30 hours of operation with no solar light
- Integral on / off switch
- Two right / left fans to let air in or out



813462

Part no	O.D. mm	Cut out diameter mm	Circulation m³/hour
<b>813462</b>	216.8	119.2	20

## Mushroom Deck Vents

ECS style Mushroom air vents suitable for deck mounting. The vents are heavy duty and robust enough to be stood on and to withstand general wear and tear on deck. The air vents are also waterproof except when submerged. If there is a high risk of submersion, then a shut-off type is available for use in rough conditions.

The air vents can be mounted at any angle and are supplied with an insect screen. These vents can be combined with a 2 speed heavy duty motor for excellent boat ventilation. Despite being low profile vents, they provide constant high levels of ventilation.

Part no.	Diameter mm	Aperture diameter mm	Material	Centre colour	Replacement centre cap
813401	228	97	White aluminium	White	813411
813402	228	97	White aluminium	Clear	813413
813403	228	97	Stainless steel	White	813411
813404	228	97	Stainless steel	Clear	813413



813401



813404



813429



813442

## Mushroom Vent Spares

Part no.	Description
813429	Grille for 4Dek mushroom air vents 127mm O.D.
813442	Motor fan for 4Dek mushroom air vents (with switch) 12/24V

## Mushroom Deck Vents

These mushroom shaped vents can be closed tight when required, such as during hostile waters or adverse weather conditions. A white plastic interior counter flange is also supplied to complete the installation.

- Stainless steel with a high-gloss polished finish
- Features a built in dorade box to prevent water ingress
- Also features a mosquito screen, to prevent insects getting into the cabin



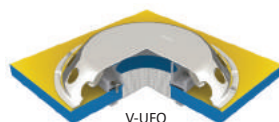
V-DARTAGN1

Part no.	O.D. mm	Cut out diameter mm	For wall thickness mm	Exterior height mm	Free flow area mm <sup>2</sup>
V-PORTOS1	117	85	27-41	31-45	300
V-ATHOS1	152	122	37-49	31-43	450
V-DARTAGN1	185	147	32-49	36-53	760

## Mushroom Deck Vents

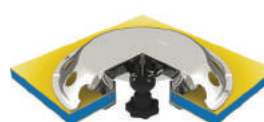
- High-gloss polished stainless steel
- Features a mosquito screen
- Rain and splash proof
- Supplied with an interior finishing ring

The Vetus deck vents can be used in conjunction with Vetus extraction ventilator fans (V-FAN12 and V-FAN24) for extra ventilation - see below.



V-UFO  
Standard

This deck vent cannot be closed, so will ensure permanent ventilation.



V-UFO2  
Shut off

This deck vent can be closed altogether and made absolutely watertight when at sea or when washing the boat.



V-UFO

Part no.	Type	O.D. mm	Height mm	Cut out diameter mm	Finishing ring diameter mm	Free flow area mm <sup>2</sup>
V-UFO	Standard	200	30	72	107	318
V-UFO2	Shut off	200	30	72	107	300

## Electric Ventilator

Vetus electric ventilator fans are designed for ceiling or wall mounting in all areas requiring ventilation, such as saloons, cabins, heads and galleys. The vent fans are very quiet, as the motors do not use carbon brushes, making the vents suitable for night running. The Vetus extractors also boast a very low level of energy consumption with a life expectancy of 50,000 hours.

The fan motors are computer motors which can run at two different speeds, determined by the surface switch on the ventilator. This special motor means the vents are suitable for continuous running. The ventilators are suitable for use in conjunction with Vetus deck vents - V-UFO and V-SCIROCCO.



V-FAN24

Part no.	Volts	O.D. mm	Height mm	Cut out diameter mm	Amp draw	Flow rate m <sup>3</sup> /min
V-FAN12	12	130	60	76	0.19A	1.2
V-FAN24	24	130	60	76	0.11A	1.2



722150

### SEAFLOW Cabin Heater Ducting Hose

- Wire reinforced black thermoplastic
- Suitable for use with Hotpot air heaters
- Brilliant resistance at both high and low temperatures

10 metre coil	I.D. mm (inch)	O.D. mm	Temperature range °C	Stainless steel 316 hose clip to suit
722150	55 (2.16")	60	-20 to +75°C	416211
722190	90 (3.5")	98	-10 to +75°C	416216



305102



305106



305107



305111



### Tank Vents with gauze

Part no.	Hose size	Shape	Construction	Flame arrestor
305102	16mm (5/8") I.D.	Straight	Chrome plated brass	Yes
305106	16mm (5/8") I.D.	90° angled down	Chrome plated brass	Yes
305107	16mm (5/8") I.D.	90° angled up	Chrome plated brass	Yes
305111	19mm (3/4") I.D.	Straight	Chrome plated brass	Yes



305164



### Flush Tank Vent with gauze

Part no.	Hose size	Thread size	Shape	Construction	Flame arrestor	Pressure rating
305164	16mm (5/8") I.D.	3/4" BSP male	Straight	Chrome plated brass	Yes	580 PSI (40 bar)



305201



305204



305222



305226



### Tank Shell Vents

- Made from chromed brass
- Suitable for use as a through bulkhead vent for fuel tanks, fresh water tanks and holding tanks
- Comes complete with a fixing nut and washer in brass

Part no.	Thread BSP male	Thread length mm	Overall length mm
Without gauze			
305201	1/2"	72	94
305202	3/4"	75	95.5
305203	1"	77	101
305204	1-1/4"	78.5	104.5
305205	1-1/2"	79.5	112
305206	2"	91.5	126
With gauze			
305220	3/8"	70.5	91.5
305221	1/2"	72	94
305222	3/4"	75	95.5
305223	1"	77	101
305224	1-1/4"	78.5	104.5
305225	1-1/2"	79.5	112
305226	2"	91.5	126



305151

### PERKO® Tank Fuel Vent

Part no.	Description
305151	Straight for 16mm hose chromed zinc

# Boat Data Record

Boat Name .....

A.S.A.P. Customer Number .....

## Boat

Hull Make \_\_\_\_\_

Model \_\_\_\_\_

Year \_\_\_\_\_

Length \_\_\_\_\_

Beam \_\_\_\_\_

Draft \_\_\_\_\_

Other info \_\_\_\_\_

## Engine

Make \_\_\_\_\_

Model \_\_\_\_\_

BHP \_\_\_\_\_

RPM \_\_\_\_\_

Gearbox Make \_\_\_\_\_

Model \_\_\_\_\_

Ratio \_\_\_\_\_

## Control Cables

Throttle Cable Type & Length \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

Gearbox Cable Type & Length \_\_\_\_\_  
(Always carry your longest length cable as a spare)

ASAP Part Number \_\_\_\_\_

## Raw Water Pump

Make \_\_\_\_\_

Pump Number \_\_\_\_\_

Impeller Number \_\_\_\_\_

Cam Number \_\_\_\_\_

End Cover Number \_\_\_\_\_

## Drive Plate

Diameter \_\_\_\_\_

No. of Fixing Holes \_\_\_\_\_

Hole Size \_\_\_\_\_

PCD \_\_\_\_\_

Drive Plate Part Number \_\_\_\_\_

## Service Parts

Anode Sizes \_\_\_\_\_

ASAP Part Number(s) \_\_\_\_\_

Heat Exchanger Model \_\_\_\_\_

End Cap Part Number \_\_\_\_\_

Oil Filter Part Number \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

Fuel Filter Part Number \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

Fuel Pre Filter Part Number \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

## Drivetrain

Coupling Number of Bolts \_\_\_\_\_

Bolt Size \_\_\_\_\_

Register Size \_\_\_\_\_

Male/Female \_\_\_\_\_

PCD \_\_\_\_\_

Flexible Coupling Type \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

Cutlass Bearing OD \_\_\_\_\_ ID \_\_\_\_\_

Material \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

## Lighting

Navigation Lights \_\_\_\_\_

Make \_\_\_\_\_

Series \_\_\_\_\_

Voltage \_\_\_\_\_

Spare Bulbs \_\_\_\_\_

## Exhaust Hose

ID \_\_\_\_\_

Length \_\_\_\_\_

ASAP Part Number \_\_\_\_\_

Other info \_\_\_\_\_

\_\_\_\_\_

# USEFUL INFORMATION

## UNIT CONVERSIONS

TO CONVERT...	INTO...	MULTIPLY BY...
bars	pounds/sq in	14.5
centigrade	fahrenheit	Cx9/5+32
centimetres	inches	0.3937
cubic centimetres	cubic inches	0.06102
cubic feet	cubic metres	0.02832
cubic feet	gallons	6.235
cubic feet	litres	28.32
fahrenheit	centigrade	F-32/9x5
feet	centimetres	30.48
feet	metres	0.3048
foot pounds	kg-metres	0.1383
gallons	cubic feet	0.1604
gallons	cubic inches	277.2
gallons	litres	4.542
gallons (US)	gallons (imperial)	0.83267
gallons water	pounds water	10.0
horsepower	kilowatts	0.7457
inches	centimetres	2.540
kilograms	pounds	2.205
kilogram-metres	foot-pounds	7.233
kilowatts	horsepower	1.341
knots	statute miles/hour	1.151
litres	cubic feet	0.03531
litres	cubic inches	61.02
litres	gallons	0.22017
litres	pints	1.761
metres	feet	3.281
metres	inches	39.37
metres	yards	1.094
miles (nautical)	kilometres	1.853
miles/hour	knots	0.8684
millimetres	inches	0.03937
pints (liq)	litres	0.5678
pounds	kilograms	0.4536
pounds/foot	kgs/meter	1.488
square feet	square meters	0.09290
square metres	square feet	10.76
tons	kilograms	1016.0
watts	amps	watts divided by volts = amps

BS 10 TABLE D DIMENSIONS FOR FLANGES

Flange size, designation (Nominal bore pipe)	Overall diameter of flange	Flange thickness	Bolt circle diameter	No. of bolts	Diameter of bolts
1-1/2"	5-1/4"	1/4"	3-7/8"	4	1/2"
2"	6"	5/16"	4-1/2"	4	5/8"
2-1/2"	6-1/2"	5/16"	5"	4	5/8"
3"	7-1/4"	3/8"	5-3/4"	4	5/8"

Bolt hole diameters are as follows:  
For 1/2" and 5/8" bolts, the bolt hole shall be 1/16" larger than the bolt diameter. For 3/4" bolts and larger, the bolt hole shall be no more than 1/8" larger than the bolt diameter.

## PUMP SIZING

Raw water cooling pumps - to establish the size needed for your engine, use the following as a guide only:

**64 Litres (14 Gallons) per minute per 100BHP**

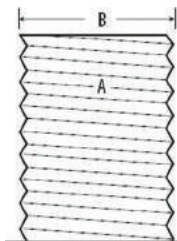
## LENGTH CONVERSION

METRES	FEET	METRES	FEET
1.00	3'3"	8.00	26'3"
1.25	4'1"	8.50	27'10"
1.50	4'11"	9.00	29'6"
1.75	5'9"	9.50	31'2"
2.00	6'7"	10.00	32'10"
2.25	7'5"	10.50	34'5"
2.50	8'2"	11.00	36'1"
2.75	9'0"	11.50	37'9"
3.00	9'10"	12.00	39'4"
3.25	10'8"	13.00	42'8"
3.50	11'6"	14.00	45'11"
3.75	12'4"	15.00	49'3"
4.00	13'2"	16.00	52'6"
4.25	13'11"	17.00	55'9"
4.50	14'9"	18.00	59'0"
4.75	15'7"	19.00	62'4"
5.00	16'5"	20.00	65'7"
5.25	17'3"	21.00	68'11"
5.50	18'1"	22.00	72'2"
5.75	18'10"	23.00	75'6"
6.00	19'8"	24.00	78'9"
6.25	20'6"	25.00	82'0"
6.50	21'4"	30.00	98'5"
6.75	22'2"	50.00	164'0"
7.00	23'0"	75.00	246'1"
7.50	24'7"	100.00	328'1"
7.75	25'5"	250.00	820'3"

Feet measurements are approximate.

## BSP/ NPT IDENTIFICATION (APPROX.)

BSP & NPT	'B' (Approx)
1/8"	10mm (3/8")
1/4"	13mm (1/2")
3/8"	16.5mm (5/8")
1/2"	21mm (13/16")
3/4"	26mm (1")
1"	33mm (1-5/16")
1-1/4"	42mm (1-5/8")
1-1/2"	47mm (1-7/8")
2"	59mm (2-5/16")
2-1/2"	75mm (3")
3"	87mm (3-5/16")
4"	112mm (4-1/2")



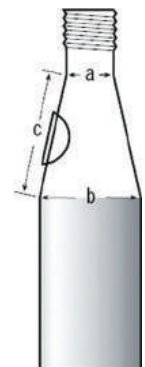
Dimension 'B' measures the OD of the thread.

## WORKING OUT A TAPER

1. Subtract dia (a) from dia (b)
2. Divide dim (c) by answer to 1
3. Taper is therefore answer to (2):1  
E.g. (a) = 0.75" (b) = 1" (c) = 2/5"

**Example (b) 1" - (a) 3/4" = 0.25  
(c) = 2.5 divided by 0.25 = 10**

**1 in 10 is standard Metric taper  
1 in 12 is standard Imperial taper**

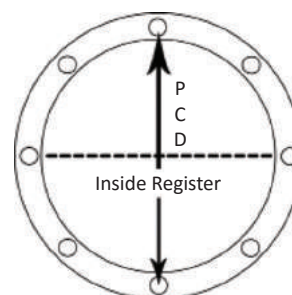


# USEFUL INFORMATION

## ENGINE BELL HOUSING TO SAE STANDARDS

Below are the details you will need to determine the size of Bell housing fitted to your engine.

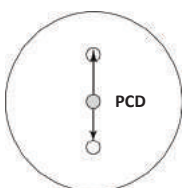
SAE No	ID Register	PCD of Bolts*	No Bolts	Bolt Size
00	787mm (31.00")	850mm (33.50")	16	13mm (1/2")
0	647mm (25.50")	681mm (26.85")	16	13mm (1/2")
1/2	584mm (23.00")	619mm (24.375")	12	13mm (1/2")
1	511mm (20.125")	530mm (20.875")	12	11mm (7/16")
2	447mm (17.625")	466mm (18.375")	12	10mm (3/8")
3	409mm (16.125")	428mm (16.875")	12	10mm (3/8")
4	362mm (14.250")	381mm (15.00")	12	10mm (3/8")
5	314mm (12.375")	333mm (13.125")	8	10mm (3/8")
6	266mm (10.50")	285mm (11.250")	8	10mm (3/8")



\* PCD = Pitch Circle Diameter. This is determined as shown above.

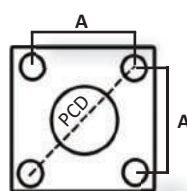
## HOW TO WORK OUT YOUR PCD

### OPTION A



Hole centres from  
6 o'clock to 12 o'clock.

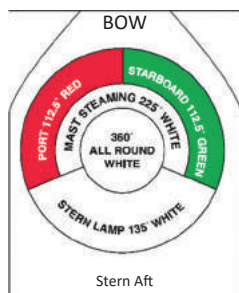
### OPTION B



$$PCD = \sqrt{A \times A \times 2}$$

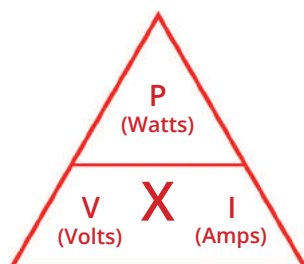
Both dimensions  
must be equal

## NAVIGATION LIGHTS



Light Type	Visibility Arc	Under 12m	12m to 20m	Over 20m
Port Red	112.5°	10W	25W	25W
Starboard Green	112.5°	10W	25W	25W
Stern White	135°	10W	10W	25W
Masthead White	225°	10W	25W	25W
Bicolour Red/Green	225°	10W	25W	25W
Tricolour Red/Green/White	360°	10W	25W	25W
Towing Yellow	135°	10W	10W	25W
All Round White	360°	10W	10W	25W
All Round Red	360°	10W	25W	25W
All Round Green	360°	10W	25W	25W

## ELECTRICAL TRIANGLE



WHY NOT USE THIS SIMPLE GUIDE TO FIND OUT  
YOUR AMPS, VOLTS OR WATTS?

Simply block out the value you require and the  
positions of the other two will indicate what you  
need to do to find it.

If you require volts, divide watts by amps.

## FLEXIBLE SHAFT COUPLINGS

To calculate power of flexible coupling required:  
$$\frac{\text{Horsepower of engine} \times \text{Reduction ratio} \times 100}{\text{Engine speed}} = \text{HP} / 100 \text{ rpm}$$

Example:  $150\text{hp} / 2400\text{rpm} \times 2 \times 100 = 12.5 \text{ Max. HP} / \text{per } 100\text{rpm}$

## OTHER USEFUL INFORMATION

Visit our website for more useful information.  
[www.asap-supplies.com](http://www.asap-supplies.com)

## AWG SIZES

AWG	mm <sup>2</sup>	SAE cm Area J1127, J1128
18	0.82	1,537
16	1.31	2,336
14	2.08	3,702
12	3.31	5,833
10	5.26	9,343
8	8.34	14,810
6	13.3	24,538
4	21.2	37,360
2	33.6	62,450
1	42.4	77,790
1/0	53.5	98,980
2/0	67.7	125,100
3/0	85.6	158,600
4/0	107.0	205,500

## DAMPER DRIVE PLATES

How to work out the torque of your engine for drive plates

$$\frac{\text{ENGINE HORSE POWER} \times 5250}{\text{ENGINE SPEED}} = \text{Torque lbft}$$

$$\frac{\text{ENGINE HORSE POWER} \times 7123}{\text{ENGINE SPEED}} = \text{Torque Nm}$$

Example:  $\frac{150 \times 5250}{2500} = 5250 = 315 \text{ lbft}$   
 $\frac{150 \times 7123}{2500} = 427 \text{ Nm}$

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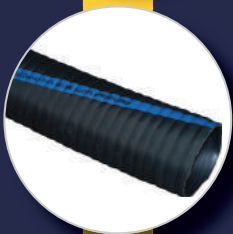
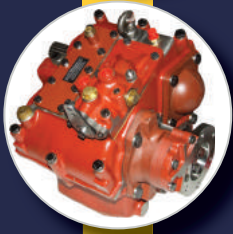
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