

Johnson Pump Marine Catalogue 2014

pumps and accessories for marine applications



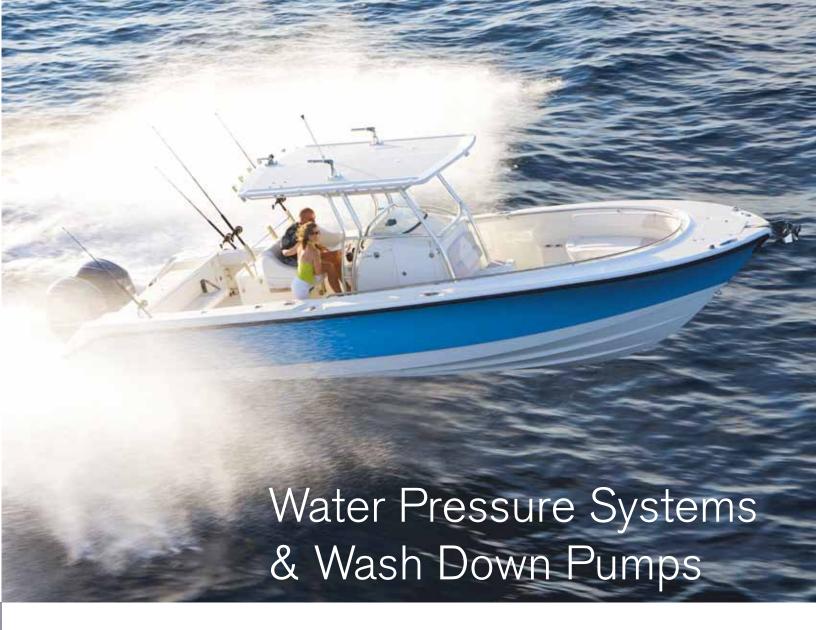


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Quiet and pulsation-free even at low speeds, the Aqua Jet five chamber diaphragm pump provides the perfect water pressure or deck wash solution for both small and medium sized leisure and commercial boats. Efficient and compact, Aqua Jet pumps are particularly suitable where low amperage and sound levels in relation to water flow are placed at a premium - such as in shower and galley applications. Operates in fresh or sea water. Self priming.

CE

CE marked according to following standards:

EN55014: 1993/Radio disturbance

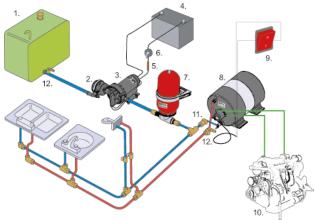
ISO8846: 1990/Electrical devices – Protection against ignition of

surrounding flammable gases

ISO10133: 1994/Electrical systems – Extra-low voltage

DC installations

Fresh Water Handling



Components included in a complete water pressure system

- 1. Water tank
- 2. PUMProtector inlet strainer
- 3. Aqua Jet water pressure pump
- 4. Battery
- 5. Fuse
- 6. Switch
- 7. Accumulator tank
- 8. Water heater
- 9. ON/OFF bipolar switch
- 10. Motor
- 11. Check valve
- 12. Shut-off valve

Aqua Jet Water Pressure Systems

The five chamber Aqua Jet WPS-series provides a reliable heart for small boat and recreational vehicle water pressure systems. Compared to conventional three or four-chamber diaphragm pumps, the Aqua Jet demonstrates dramatically lower noise and water pulsation characteristics. It is recommended to install the WPS-pumps with an accumulator tank. Always use a PUMProtector inlet strainer before the pump intake.



WPS 2.4

Diaphragm	Santoprene	Weight	1.6 kg/3.5 lbs
Valves	EPDM	Length	204 mm/8.02"
Body	PP/PPA	Width	197 mm/7.76"
Motor	85W	Height	110 mm/4.33"

Order No.	Description	Capacity	Pressure Cut Off*	Fuse Size	Connection**
10-24604-103	Aqua Jet WPS 2.4, 12V	9 I/min – 2.4 GPM	2.8 bar - 41 psi	10 A	³ / ₈ " NPT / hose ½"; ½" NPT, ¾" hose
10-24604-104	Aqua Jet WPS 2.4, 24V	9 I/min – 2.4 GPM	2.8 bar – 41 psi	5 A	3/8" NPT / hose 1/2"; 1/2" NPT, 3/4" hose

WPS 2.9

Diophroam	Santoprene	\A/=:=l=4	1.6 kg/3.5 lbs
Diapriragili	Jantoprene	Weight	1.0 kg/ 3.5 lbs
Valves	EPDM	Length	204 mm/8.02
Body	PP/PPA	Width	197 mm/7.76"
Motor	85W	Height	110 mm/4.33"

Order No.	Description	Capacity	Pressure Cut Off*	Fuse Size	Connection**
10-13405-103	Aqua Jet WPS 2.9, 12V	11 I/min - 2.9 GPM	2.8 bar - 41 psi	10 A	3/8" NPT / hose 1/2"; 1/2" NPT, 3/4" hose
10-13405-104	Aqua Jet WPS 2.9, 24V	11 I/min - 2.9 GPM	2.8 bar - 41 psi	5 A	3/8" NPT / hose 1/2"; 1/2" NPT, 3/4" hose

WPS 3.5

Diaphragm	Santoprene	Weight	2 kg /4.5 lbs
Valves	EPDM	Length	236,5 mm/9.31"
Body	PP/PPA	Width	210 mm/8.25"
Motor	85W	Heiaht	116 mm/4.575"

Order No.	Description	Capacity	Pressure Cut Off*	Fuse Size	Connection**
10-13395-103	Aqua Jet WPS 3.5, 12V	13L/min / 3.5 GPM	2.8 bar / 41 psi	10 A	³ / ₈ " NPT / hose ½", ½" NPT / hose ¾"; ½" NPT, ¾" hose
10-13395-104	Aqua Jet WPS 3.5, 24V	13L/min / 3.5 GPM	2.8 bar / 41 psi	5 A	³ / ₈ " NPT / hose ½", ½" NPT / hose ¾"; ½" NPT, ¾" hose

WPS 4.0

Diaphragm	Santoprene	Weight	2 kg /4.5 lbs
Valves	EPDM	Length	240 mm/9.46"
Body	PP	Width	214 mm/8.42"
Motor	100W	Height	110 mm/4.33"

Order No.	Description	Capacity	Pressure Cut Off*	Fuse Size	Connection**
10-13406-103	Aqua Jet WPS 4.0, 12V	15L/min / 4.0 GPM	2.8 bar / 41 psi	10 A	³ / ₈ " NPT / hose ½", ½" NPT / hose ¾"; ½" NPT, ¾" hose
10-13406-104	Aqua Jet WPS 4.0, 24V	15L/min / 4.0 GPM	2.8 bar / 41 psi	5 A	³ / ₈ " NPT / hose ½", ½" NPT / hose ³ / ₄ "; ½" NPT, ³ / ₄ " hose

WPS 5.2

Diaphragm	Santoprene	Weight	2 kg /4.5 lbs
Valves	EPDM	Length	240 mm/9.46"
Body	PP	Width	214 mm/8.42"
Motor	150W	Heiaht	110 mm/4.33"

Order No.	Description	Capacity	Pressure Cut Off*	Fuse Size	Connection**
10-13406-107	Aqua Jet WPS 5.2, 12V	20L/min/ 5.2 GPM	2.8 bar / 41 psi	15 A	³ / ₈ " NPT / hose ½", ½" NPT / hose ¾"; ½" NPT, ¾" hose
10-13406-108	Aqua Jet WPS 5.2, 24V	20L/min/ 5.2 GPM	2.8 bar / 41 psi	8 A	3/8" NPT / hose 1/2", 1/2" NPT / hose 3/4"; 1/2" NPT, 3/4" hose

*Cut off pressure 2.1 bar/30 psi and 1.4 bar/20 psi available on request

Aqua Jet Uno WPS 3.5 & 5.2

Medium capacity unit with a single Aqua Jet WPS capacity 13 I/min or 20 I/min fixed on a base with PUMProtector inlet strainer and a 2 litres pre-pressurized accumulator tank.

Order No.	Description	Capacity	Pressure Cut Off*	Fuse Size	Connection
10-13408-01	WPS Uno 3.5, 12V	13 I/min - 3.5 GPM	2.8 bar – 41 psi	10 A	3/4" hose
10-13408-02	WPS Uno 3.5, 24V	13 I/min – 3.5 GPM	2.8 bar – 41 psi	5 A	3/4" hose
10-13408-03	WPS Uno 5.2, 12V	20 I/min - 5.2 GPM	2.8 bar – 41 psi	15 A	3/4" hose
10-13408-04	WPS Uno 5.2, 24V	20 I/min - 5.2 GPM	2.8 bar – 41 psi	8 A	3/4" hose
10-13281-05	WPS Uno 3.5, 12V	13 I/min – 3.4 GPM	2.8 bar – 41 psi	10 A	½" hose
10-13281-06	WPS Uno 3.5, 24V	13 I/min – 3.4 GPM	2.8 bar – 41 psi	5 A	½" hose
09-46781-01	Switch, complete, WPS 41 psi		41 psi		



Agua Jet Duo WPS 10.4

High capacity unit with two parallel-connected Aqua Jet WPS capacity 40 I/min fixed on a base with PUMProtector inlet strainers and a 2 litres pre-pressurized accumulator tank.

Order No.	Description	Capacity	Pressure Cut Off	Fuse Size	Connection
10-13409-01	WPS Duo 10.4, 12V	40 I/min - 10.4 GPM	2.8 bar - 41 psi	25 A	3/4" hose
10-13409-02	WPS Duo 10.4, 24V	40 I/min - 10.4 GPM	2.8 bar - 41 psi	15 A	3/4" hose
09-46781-01	Switch, complete, WPS 41 psi		41 psi		
09-46781-03	Switch, complete, WPS 30 psi		30 psi		



Aqua Jet Uno Max WPS 2.9 & 3.5

Medium capacity unit with a single Aqua Jet WPS with capacity 11 or 13 I/min fixed on a wooden panel for easy and efficient installation. The unit includes a PUMProtector inlet strainer and a 2 litres pre-pressurized accumulator tank.

				•	
Order No.	Description	Capacity	Pressure Cut Off	Fuse Size	Connection
10-13410-01	WPS Uno-Max 2.9 12V	11 I/min - 2.9 GPM	2.8 bar - 41 psi	10 A	3/4" hose
10-13410-02	WPS Uno-Max 2.9 24V	11 I/min – 2.9 GPM	2.8 bar - 41 psi	5 A	³⁄₄" hose
10-13411-01	WPS Uno-Max 3.5 12V	13 I/min - 3.5 GPM	2.8 bar - 41 psi	10 A	³¼" hose
10-13411-02	WPS Uno-Max 3.5 24V	13 I/min - 3.5 GPM	2.8 bar - 41 psi	5 A	3/4" hose



Aqua Jet Flow Master 5.0 WPS

The ideal choice for pressurizing water in a closed system. The digital controller adjusts water flow as the demand is increased and decreased while maintaining a very smooth flow. The unique variable flow feature of the Flow Master pump allows the pump to be mounted without an accumulator tank and still maintain an even flow regardless if one or multiple taps are being used.



Dimensions 239 mm/9.4" long x 209 mm/8.22" wide x 113 mm/4.49" high

Weight 2 kg/4.5 lbs

Body

Motor WPS 5.0 – 150 W, 12/24V DC

(with built-in thermal protection)
Nylon/Polypropylene

Valves Santoprene/EPDM Diaphragm Santoprene

Order No.	Description	Capacity	Pressure Cut Off	Fuse Size	Connection
10-13329-103	WPS FM 5.0, 12V	19 I/min – 5 GPM	3.5 bar - 50 psi	15 A	³ / ₈ " NPT / hose ½"; ½" NPT / hose ¾"; ½" NPT ¾" hose ½ CTS
10-13329-104	WPS FM 5.0, 24V	19 I/min - 5 GPM	3.5 bar - 50 psi	8 A	³ / ₈ " NPT / hose ½"; ½" NPT / hose ¾"; ½" NPT ¾" hose ½ CTS

^{**} BSP-connection available on request

^{*}Cut off pressure 2.1 bar/30 psi and 1.4 bar/20 psi available on request

1.1 Pump/Faucet Combination

Powerfull 1.1 GPM pump and faucet combination. Self priming diaphragm style demand pump. Can be mounted above water tank. Easy access, low maintence. Sleek faucet included. Available in 12V or 24V models.



Order No.	Description	
61123	1.1 GPM Pump & 15" Fauct 12V	
61124	1.1 GPM Pump & 15" Fauct 12	
09-CD65582	15" Chrome Plated Faucet	

Aqua Jet Wash Down Pump Kits

20 I/min (5.2 GPM) wash down kit conveniently includes a high capacity Aqua Jet WD 5.2, 5 bar (70 psi), PUMProtector inlet strainer, spray nozzle, bulk head fitting with valve, 7.5 meters (25') of coiled wash down hose and an illuminated panel switch – all in one package.







		0+00+0	JL
Order No.	Description	Connection	Kit Includes:
64535	Aqua Jet 3.5 Wash Down Pump Kit, 12V	3/8" BSP x 1/2" barb	WD Pump, filter, hose, spray pistol, bulkhead fitting, connectors, and panel switch
64534CL	Aqua Jet 3.5 Wash Down Pump Kit, 12V Clamshell	1/2" NPT / hose 3/4". 3/4" GHT, Hose 3/4" GHT	WD Pump, filter, spray pistol, hose and connectors







10-13399-0311

Order No.	Description	Connection	Kit Includes:
64534	Aqua Jet 5.2 Wash Down Pump Kit, 12V	½" NPT / hose ¾". ¾" GHT, Hose ¾" GHT	WD pump, filter, hose, spray pistol, bulkhead
64534-24	Aqua Jet 5.2 Wash Down Pump Kit, 24V	Bulkhead fitting – Inlet 3/4" hose, outlet 3/4" GHT	fitting, hose connectors, and panel switch
10-13399-0311	Aqua Jet 5.2 Wash Down Pump Kit, 12V Clamshell		WD pump, filter, spray pistol and connectors

Accessories

Order No.	Description	
09-10616	Bulkhead fitting 3/4" hose (pkgd)	
61115	Bulkhead fitting 3/4" hose (bulk)	
61155	Spray pistol	
69103	Hose connector	
10615-00	25 FT Coiled hose	
61104-00	US Hose Connector (Orange)	

Order No.	Description
09-24653-02-CN	Filter
01-36012	Strainer cover
09-46780	Rubber feet, qty. 4 pcs.
01-36099-1	Red slide clip (Bulk)
09-46956	Red Slide Clips (2 pcs)
82024	Wash Down Panel Switch

Aqua Jet Wash Down Pumps

As a wash down pump, the Aqua Jet offers much higher pressures than competitive models, making clean-up faster and easier than ever before.

Aqua Jet Wash Down Pumps 2.9, 3.5 & 5.2

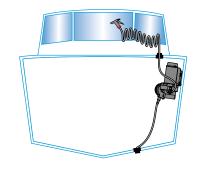
Complete with trigger nozzle, PUMProtector inlet strainer and hose connections for $\frac{1}{2}$ " hose. Both BSP and NPT connections included in package.



Dimensions See WPS 2.9, WPS 3.5 and WPS 5.2 Motor WD 2.9 - 90 W, 12/24V DC

WD 2.9 - 90 W, 12/24V DC WD 3.5 - 120 W, 12/24V DC WD 5.2 - 185 W, 12/24V DC (with built-in thermal protection)

Body PA/PPA Valves Nitrile Diaphragm Santoprene



Order No.	Description	Capacity	Pressure Cut Off	Fuse Size	Connection
10-24728-03	WD 2.9, 12V	11 I/min – 2.9 GPM	2.8 bar - 41 psi	10 A	³ / ₈ " BSP x ½" barb / ½" NPT x ³ ¼" barb
10-24728-04	WD 2.9, 24V	11 I/min – 2.9 GPM	2.8 bar - 41 psi	5 A	³ / ₈ " BSP x ½" barb / ½" NPT x ¾" barb
10-13399-03	WD 3.5, 12V	13 I/min – 3.5 GPM	5 bar - 70 psi	15 A	1/2" NPT / hose 3/4", GHT 3/4" ; 3/8" BSP x 1/2" barb,
10-13399-04	WD 3.5, 24V	13 I/min – 3.5 GPM	5 bar - 70 psi	8 A	1/2" NPT / hose 3/4", GHT 3/4" ; 3/8" BSP x 1/2" barb
10-13407-07	WD 5.2, 12V	20 I/min - 5.2 GPM	5 bar - 70 psi	20 A	1/2" NPT / hose 3/4", GHT 3/4" ; 3/8" BSP x 1/2" barb
10-13407-08	WD 5.2, 24V	20 I/min - 5.2 GPM	5 bar - 70 psi	10 A	1/2" NPT / hose 3/4", GHT 3/4" ; 3/8" BSP x 1/2" barb

Aqua Jet Wash Down Pump Kits

Kit Includes everything you need to washdown your boat, RV, water craft and more. Use any water available fresh or salt water. Complete with collapsing hose, spray nozzle, input hose with filter, 3.5 wash down pump, dual power option 12V cigarette lighter power cord, and battery clips to power from battery terminals. 70 PSI pressue. Fully ingition protected and CE approved washdown pump.



PUMProtector™ Strainer

The PUMProtector™ inlet and universal strainers feature transparent covers for simple inspection, a wide variety of KlickTite™ port connectors for simple installation and removal, and high quality materials for simple maintenance. The connectors make it possible to remove the entire unit for thorough cleaning wherever it's most convenient.

Universal Strainer

 Materials
 Strainer - Polyamide 66, black
 Diameter
 80 mm / 3.15"

 Cover - Acrylic, clear, 01-36012 P02
 Height
 60 mm / 2.35"

 Screen - Stainless steel, 20 and 40 mesh
 Weight
 0.15 kg / 0.33 lbs

O-rings – Silicone and EPDM Mesh size 20 or 40



Order No.	Description	Mesh	Max Liquid Temp.	Max Temp. for Drinking Water	KlickTite™ Connector
09-24652-02-CN	Universal Strainer	40	+50°C -+120°F	+30°C - +85°F	2 x ½" hose / ³/ ₈ " NPT, 2 x ¾" hose / ½" NPT
09-24652-04-CN	Universal Strainer	20	+50°C -+120°F	+30°C - +85°F	2 x ½" hose / ³/8" NPT, 2 x ³¼" hose / ½" NPT

^{*}Strainer cover P/N, 01-36012 PO2 O-Ring Not Included

Inlet Strainer

 Materials
 Strainer - Polyamide 66, black
 Diameter
 80 mm / 3.15"

 Cover - Acrylic, clear, 01-36012 P02
 Height
 60 mm / 2.35"

 Screen - Stainless steel, 20 and 40 mesh
 Weight
 0.15 kg / 0.33 lbs

O-rings – Silicone and EPDM Mesh size 20 or 40



Order No.	Description	Mesh	Max Liquid Temp.	Max Temp. for	KlickTite™ Connector
				Drinking Water	
09-24653-02-CN	Inlet Strainer	40	+50°C - +120°F	+30°C - +85°F	Built-in KlickTite™ 1 x ½" hose / ³/8" NPT, 1 x ¾" hose / ½" NPT
09-24653-03-CN	Inlet Strainer	40	+50°C - +120°F	+30°C - +85°F	Built-in KlickTite™, Bulk pack w/o connectors

^{*}Strainer cover P/N, 01-36012 PO2

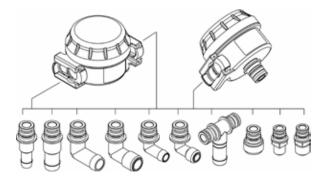


01-36012 PO2

KlickTite™ Port Connectors

KlickTite[™] port connectors are available for virtually any hose diameter and make it possible to remove the entire unit for thorough cleaning wherever it's most convenient. They also make it possible to drain the system quickly for effortless winterizing without the use of any tools.

Order No.	pcs/package	KlickTite™ Connector
09-46957	2	2 x ½" hose and 3/8" NPT
09-46958	2	2 x 3/4" hose and 1/2" NPT
09-46939	2	2 x 90°, 3/4" hose
09-47088	2	2 x 90°, 1/2" NPT
09-46938	2	2 x 90°, 1/2" hose
09-47089	2	2 x 90°, 3/8" NPT
09-47094	2	2 x Garden hose adapter
09-47087	2	2 x 90° 1/2" BSP / 3/4" hose
09-47098	2	2 x 1/2" BSP / 1/2"-14 NPSM
09-47092	1	1 x T-connection, 3/4" barb



Accumulator Tank

The use of an accumulator tank is recommended to ensure effective and reliable system function. With an accumulator tank incorporated in the system, the intervals between cut-in and cut-out will be longer when only small amounts of water are drawn off. Less wear and tear on the pump with fewer starts and stops. Pre-pressurized at 0.8 bar / 12 psi.

Order No.	Connection		
09-46839-01	½" hose connection		
09-46839-02	3/4" hose connection		

Accessories

Deck Wash 316 Stainless Flush Mount

- Flush mount
- Connects and disconnects under full pressure.
- Positive lock bayonet connector.
- Double viton o-ring seals.
- Large flow capacity.
- 316 stainless steel.
- Connections made of Nylon 66.
- Two connector versions: American standard garden hose (blue)





61122

Deck Wash Hardware

Order No.	Description	
40057	Water pressure regulator	
61121	Single outlet, single flush	
61122	Double outlet, 2 way flush	
61127A	90 deg. WD bulkhead fitting (packaged)	





40057

Tank Monitoring

Monitors 3 holding tanks with digital accuracy. "Field Effect" sensors mount on the outside of any polyethylene or polypropylene tank up to 10mm thick. Great for fresh, gray or black water tanks. Monitor panel reads level for each tank.



Order No.	Description
200600032	Sensa Tank Marine 100

Biosok - Green Remediation Solutions







Order No.	Description
58001-00	Biosok, 1 foot
58005-00	Fuel sorber - Fuel collar
58008	Oil sorb powder
58003	10 ft Bio boom
58004-00	4 ft Bio boom

- Used for oil/gas/diesel redmediation Environmentally friendly





The SPX Johnson Pump Marine submersible pumps can handle most bilge pump applications. Heavy duty motors with stainless steel (SS2343) shaft and tough thermoplastic bodies provide for a long pump life. With an automatic switch installed, the pump automatically starts on when there is water in the bilge and shuts off when it is dry.

Salt Water Tested - Salt Water Tough



CE marked according to following standards:

EN55014: ISO8846:

1993/Radio disturbance Small Craft - Electrical devices

- Protection against ignition of surrounding

flammable gases

Small craft - Electrically operated bilge pumps

ISO8849: ISO10133:

Small Craft – Electrical systems – Extra-low voltage DC installations

Heavy Duty Bilge Pump - 1600-4000 Series

Designed to meet and exceed the tough demands of commercial and recreational duty. This pump has a liquid cooled, 12-pole motor with double ball bearings for extended service life. The 2200 motor is sealed off by a mechanical seal design, while the 1600 model has lip seal. The impeller is carefully designed and tested to maximize head and flow. The 4000 features a robust motor design, mechanical shaft seal, high impact ABS plastic and unique threaded port design. Universal base plate and a choice of 1.½" or 2" ports makes for a simple installation. Removable check valve included.

1600
2200
4000



Shaft	SS2343
Wire size	1.3 mm ² - 16 GA
Wire length	1.8 m – 6 ft
Max Ø	108 mm - 4.25"
Max height	149 mm - 5.86"
Weight	1.3 ka - 2.75 lbs

Shaft	SS2343
Wire size	1.3 mm ² - 16 GA
Wire length	1.8 m - 6 ft
Max Ø	108 mm - 4.25"
Max height	177 mm – 7"
Weight	2.7 kg – 6 lbs

4000	
Shaft	SS2343
Wire size	2 mm ² - 14 GA
Wire length	1.8 m - 6 ft
Max Ø	121 mm - 4.8"
Max height	216 mm - 8.5"
Weight	2.45 kg - 5.4 lbs

Order No.	Description	Capacity 1.0 m head (13.6 V/27 V)	Capacity straight (13.6 V/27 V)	Amperage	Fuse Size	Connection
16004-00	1600 12 V	98 I/min - 1550 GPH	100 I/min - 1600 GPH	7 A	10 A	1.1/8" and 1.1/4"
16084-00	1600 24 V	98 I/min – 1550 GPH	100 I/min - 1600 GPH	3.5 A	6 A	1.1/8" and 1.1/4"
22004	2200 12 V	120 I/min - 1900 GPH	130 I/min - 2060 GPH	7.5 A	12 A	1.1/8" and 1.1/4"
22084	2200 24 V	120 I/min - 1900 GPH	130 I/min - 2060 GPH	4.5 A	6 A	1.1/8" and 1.1/4"
40004	4000 12 V	164 I/min – 2600 GPH	252 I/min - 4000 GPH	15 A	25 A	1.1/2" and 2"
40084	4000 24 V	164 I/min – 2600 GPH	252 I/min – 4000 GPH	7.5 A	15 A	1.½" and 2"

For automatic operation use Ultima switch for 40004/40084 models

Heavy Duty Bilge Pump Automatic - 1600-2200 Series









Accessories

Order No.	Description
50102	L1600/2200 check valve washer
50511	L1600/2200 check valve flapper
50581	L4000 check valve flapper
51122	L4000 check valve washer

Order No.	Description		
54061-22	1.1/8" port, fits 1600/2200 models		
54061-23	1.1/4" port, fits 1600/2200 models		
54061-24	1" port, fits 1600/2200 models		
54264	Base 1600/2200		
54274	Base 4000		

Cartridge Bilge Pumps 500-1250 Series

1000 GPH and 1250 GPH incorporate some of the most advanced features in the industry, features developed from service in a wide variety of uses including racing, cruising, sport fishing, and demanding commercial duties. For 500 GPH, 750 GPH, and 1000 GPH, we have improved the design with easy-to-install Dura-Port discharge ports to eliminate stress cracking caused by over-tightened hose clamps. The pumps are delivered including both a straight and a 90° smooth elbow Dura-Port as well as a removable check valve.



Max Ø 70 mm - 2.75" Max height 112 mm - 4.4" Weight 0.27 kg - 9.6 oz.

1250 GPH

Max Ø 70 mm – 2.75" Max height 112 mm – 4.4" Weight 0.32 kg – 10.4 oz.

Order No.	Description	Voltage	Capacity 3 ft (0.9 m) head (13.6 V)	Capacity straight (13.6 V)	Amperage	Fuse Size	Connection
32503	500 GPH	12V	33 I/min - 525 GPH	40 I/min - 630 GPH	2.5 A	5 A	3/4"
32703	750 GPH	12V	44 I/min - 700 GPH	50 I/min - 800 GPH	3 A	5 A	3/4"
32903	1000 GPH	12V	50 I/min - 800 GPH	63 I/min - 1000 GPH	3.2 A	5 A	3/4"
32903-24V	1000 GPH	12V	50 I/min - 800 GPH	63 I/min - 1000 GPH	2 A	3 A	3/4"
42123*	1250 GPH	12V	60 I/min - 952 GPH	73 I/min - 1150 GPH	3 A	5 A	1.¹/ ₈ "
42123-24*	1250 GPH	12V	60 I/min - 952 GPH	73 I/min - 1150 GPH	2 A	3 A	1. ¹ / ₈ "

^{*)} Do not include Dura-Port connection

Accessories, 500-1000 GPH Only

Order No.	Description
50533	Check valves, 500-1000 GPH
92105	DuraPort, straight
92205	DuraPort, 90°

Options, 500–1000 GPH Only

Order No.	Description
51123	Threaded on Flow Rite, straight
51124	Threaded on Flow Rite, 90°

^{*)} Dura-Port not included

Low Boy Bilge Pump

Low Profile pump design for ease of mounting and removal in tight bilge areas. Perfect for vessels with bilge pumps mounted beneath inboard or I/O engines. Removable cartridge style. For 750 GPH Low Boy Bilge pumps we have easy-to-install Dura-Port discharge ports to eliminate stress cracking caused by over-tightened hose clamps. The pumps will be delivered including both a straight and a 90° smooth elbow. Use 36152 magnetic switch only.



 $\begin{array}{ll} \text{Max length} & 146 \text{ mm} - 5.75\text{"} \\ \text{Width} & 81 \text{ mm} - 3.2\text{"} \\ \text{Height} & 72 \text{ mm} - 2.82\text{"} \\ \text{Wire size} & 1.3 \text{ mm}^2 - 16 \text{ GA} \end{array}$

Order No.	Description	Capacity 3 ft (0.9 m) head (13.6 V)	Capacity straight (13.6 V)	Amperage	Fuse Size	Connection
33703	750 GPH Low Boy Bilge Pump, 12V	44 I/min - 700 GPH	50 I/min - 800 GPH	3 A	5 A	3/4"
33103*	1250 GPH Low Boy Bilge Pump, 12V	60 I/min - 952 GPH	73 I/min - 1150 GPH	3 A	5 A	1. ¹ / ₈ "

^{*)} Do not include Dura-Port connection

Ultima Combo

Pump with automatic operation equipped with the Ultima switch. Voltage 12 V DC as well as 24 V DC for 1000 GPH UC and 1250 GPH UC. For 500 GPH UC - 1000 GPH UC, we have easy-to-install Dura-Port discharge ports to eliminate stress cracking caused by over-tightened hose clamps. The pumps will be delivered including both a straight and a 90° smooth elbow Dura-Port as well as a removable check valve.



500 UC - 1000 UC

Max Ø 100 mm – 3x4" Max height 112 mm – 4.4" Weight 0.4 kg – 14.4 oz. 1250 UC

Max Ø 70 mm – 2.75" Max height 112 mm – 4.4" Weight 0.45 kg – 16 oz.

Order No.	Description	Capacity 3 ft (0.9 m) head (13.6 V)	Capacity straight (13.6 V)	Amperage	Fuse Size	Connection
07503-00	500 GPH Ultima Combo, 12V	33 I/min - 525 GPH	40 I/min - 630 GPH	2.5 A	5 A	3/4"
07703-00	750 GPH Ultima Combo, 12V	44 I/min - 700 GPH	50 I/min - 800 GPH	3 A	5 A	3/4"
07903-00	1000 GPH Ultima Combo, 12V	50 I/min - 800 GPH	63 I/min - 1000 GPH	3.2 A	5 A	3/4"
07903-24	1000 GPH Ultima Combo, 24V	50 I/min - 800 GPH	63 I/min - 1000 GPH	2 A	3 A	3/4"
08203-00*	1250 GPH Ultima Combo, 12V	60 I/min - 952 GPH	73 I/min - 1150 GPH	3 A	5 A	1. ¹ / ₈ "
08203-24*	1250 GPH Ultima Combo, 24V	60 I/min - 952 GPH	73 I/min - 1150 GPH	2 A	3 A	1. ¹ / ₈ "

^{*)} Do not include Dura-Port connection

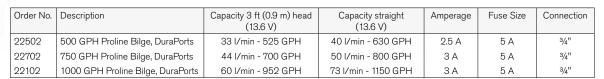
Cartridge Combo Series

Combines the line of cartridge bilge pumps with automatic operation. Equipped with a non-clogging electronic float switch.



Order No.	Description	Capacity 3 ft (0.9 m) head (13.6 V)	Capacity straight (13.6 V)	Amperage	Fuse Size	Connection
05503-00	500 GPH Cartridge Combo, 12V	33 I/min - 525 GPH	40 I/min - 630 GPH	2.5 A	5 A	3/4"
05703-00	750 GPH Cartridge Combo, 12V	44 I/min - 700 GPH	50 I/min - 800 GPH	3 A	5 A	3/4"
05903-00	1000 GPH Cartridge Combo, 12V	50 I/min - 800 GPH	63 I/min - 1000 GPH	3.2 A	5 A	3/4"

Proline Bilge



Ultima Bilge Pump

Sleek, reliable and compact unit with integrated switch ready to install and run for years and years of unerring service. Available in 600-800-1000-1250 GPH versions. Voltage 12 V DC. For UltimaBilge™ 600 GPH-1000 GPH, we have easy-to-install Dura-Port discharge ports to eliminate stress cracking caused by over-tightened hose clamps. The pumps are delivered including both a straight and a 90° smooth elbow Dura-Port and a removable check valve. Reverse wire protected to insure correct polarity.



600,800 & 1000 GPH

1250 GPH

Length	142 mm - 6"
Width	82 mm - 3.2"
Height	105 mm - 4.1"
Weight	0.66 ka - 23.3 oz.

Length Width 82 mm - 3.2" 117 mm - 4.6" Height Weight 0.66 kg - 23.3 oz.

142 mm - 6"

Order No.	Description	Capacity 3 ft (0.9 m) head (13.6 V)	Capacity straight (13.6 V)	Amperage	Fuse Size	Connection
32-47258-003	600 GPH, 12 V	32 I/min - 500 GPH	38 I/min - 600 GPH	2.5 A	5 A	3/4"
32-47259-003	800 GPH, 12 V	38 I/min - 600 GPH	51 I/min - 800 GPH	3 A	5 A	3/4"
32-47260-003	1000 GPH, 12 V	44 I/min - 700 GPH	64 I/min - 1000 GPH	3.2 A	5 A	3/4"
32-47261-002*	1250 GPH, 12 V	51 I/min - 800 GPH	79 I/min - 1250 GPH	3 A	5 A	1.1/8" and 1.1/4"

^{*)} Do not include Dura-Port connection

Spare Parts, 600, 800, 1000 GPH

Order No.	Description
92105	Straight duraport
92205	90° duraport
50533	Check valve, nitrile, for all cartridge pumps

Spare Parts, 1250 GPH Only

Order No.	Description				
54061-22	1.1/8" thread discharge port				
54061-23	1.1/4" thread discharge port				
50102	Washer				
50511	Flapper, nitrile, 2200				

Order No.	Description
50533	3/4" Check valve for 600, 800, 1000
50102	1.1/8" Check valve washer for 1250
50511	1.1/8" Check valve flapper for 1250

Multiple Port Shower Sump

This compact shower sump system is designed to meet the higher demands from today's boating industry where more equipment is used. This also includes the fresh water system onboard and involves showers, dish-washing machines, galley sinks, etc. The shower sump turns on/off automatically using our Ultima switch technology and has multiple inlet ports for handling waste water from more than one tapping point. The check valve on the outlet stops water from flowing back into the tank. The tank has a tight-fitting lid to minimize splashing and odors. To further aid in cleaning, the system includes an easily removable mesh filter.



290x210 mm - 11.42x8.26" LxW Max height 145 mm - 5.7" 0.9 kg - 2 lbs

Weight

Order No.	Description	Capacity 1.0 m head (13.6 V/27 V)	Capacity straight (13.6 V/27 V)	Amperage	Fuse Size	Intake connection	Discharge connection
57151	Multiple Port Shower Sump, 12V	53 I/min - 844 GPH	61 I/min - 972 GPH	3.4 A	5 A	1x3/4", 1x3/4" or 1x1"	3/4"
57151-24	Multiple Port Shower Sump, 24V	53 I/min - 844 GPH	61 I/min - 972 GPH	2 A	3 A	1x1.1/8" or 1x11/2"	3/4"
54304	Clear Sump Cover						
28512	Motor 1000 GPH repl., 12V						
28512-24V	Motor 1000 GPH repl., 24V						
36303	Ultima Switch 12/24V						

High Performance First Mate

Designed specifically for Pontoon livewell and PWC Bilge applications. Where space is at a premium and ease of maintenance is desired. Easy to plumb 90 degree Dura port makes short work of challenging hose routing.



Order No.	Description	Capacity straight (13.6 V/27 V)	Amperage	Fuse Size	Connection
21405HP	High Performance First Mate, 12V	30 I/min - 400 GPH	2.5 A	5 A	3/4"

First Mate

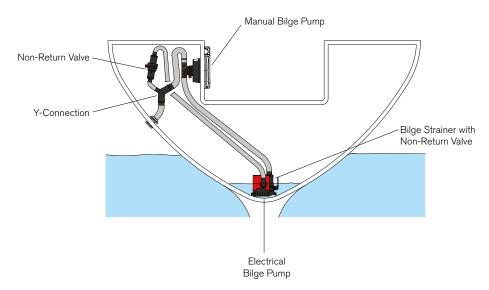
A low budget alternative designed for long life and high performance capacity. The low cost choice for boat owners who still look for quality.



Max Ø 115 mm - 4.5" Max height 100 mm - 4" Weight 0.35 kg - 12 oz.

Order No.	Description	Capacity straight (13.6 V/27 V)	Amperage	Fuse Size	Connection
21405	First Mate, 12V	30 I/min - 400 GPH	2.5 A	5 A	3/4"

Bilge Pump System



Viking Compact, manual and electrical in combination

Full-capacity, hand-powered bilge pump perfect for installation in tight spaces.

This rugged, yet sleekly designed, single-chamber diaphragm pump provides first-rate performance and is a snap to install. It can be fitted in minutes from one side of the bulkhead with just four screws, self-sealing against the surface with a durable, watertight gasket. With the pump house recessed behind the bulkhead, only the handle is visible from the cabin or cockpit.

The Viking Compact's inlet and outlet ports can be swiveled 360° and are delivered in two sizes with every pump, Ø25mm (1") and Ø38mm (1.½"). Naturally, the Viking Compact has KlickTite™ connectors fitted as standard, literally making hose connections a snap!

Flow at 10 kPa head and 45 strokes/min

 Ø25mm connections
 34,5 liters/minute (9.1 US gallons/minute)

 Ø38mm connections
 45 liters/minute (11.9 US gallons/minute)

Body Polypropylene
Cover ABS
Diaphragm Nitrile rubber
Valves Nitrile rubber

(1 leaf and 1 tricuspid valve)

Wetted parts Polypropylene, PA66GF30 plastics and

nitrile rubber

Maximum lift 2.1 meters (7 feet)
Maximum head 1.2 meters (4 feet)
Combined head/lift 3.3 meters (10.8 feet)

Connection KlickTite™ connectors for 1" (25 mm)

or $1.\frac{1}{2}$ " (38 mm) hose. Both options

included

Max. liquid temp +60°C (140°F) Weight 0.675 kg (1.5 pounds)

Order No.	Description
10-24800-01	Viking Compact w. dia. 25 mm (1") and dia. 38 mm (1½") ports.
10-24800-10	Viking Compact w. dia. 38 mm (1½") ports Bulk pack.
10-24800-11	Viking Compact w. dia. 25 mm (1") ports Bulk pack.
10-24800-12	Viking Compact w. dia. 38 mm (1½") ports and 25 mm (1") ports. Bulk pack



Dependability in the grasp of your hand!

Viking Thrudeck and Bulkhead

When the power is out you can always depend on the hand operated diaphragm bilge pump. The Viking pump can also be used for pumping toilet waste due to the large valve openings. The pump is available in two models for various installation alternatives. It can be mounted behind walls, through deck and under bulkheads.

Viking Thrudeck for installation behind vertical wall or under deck with sealing boot, complete with a cover plate. Viking Bulkhead for surface installation with horizontal lever.

Order No.	Description	
70-50005	Thrudeck 1.1/2"	
70-50025	Thrudeck 1"	
70-50007	Bulkhead 1.1/2"	
70-50027	Bulkhead 1"	

Capacity data (At 1 m/3.28" suc	tion height : 0.9 l/stroke)
60 strokes/min	54 I/min - 14.5 GPM
80 strokes/min	72 I/min - 19 GPM
100 strokes/min	90 I/min - 24 GPM

Max suction height 4 m - 13 ft



 Diameter
 164 mm - 6.45"

 Handle length
 285 mm - 11.22"

 Width
 253 mm - 9.96"

 Height
 133 mm - 5.23"

 Weight
 2 kg - 4.5 lbs

Manual & Electric Bilge Pump Accessories



- Designed to install in-line
- Maintains prime in a suction or discharge line
- Easy to maintain and clean without any tools

In-Line Non-Return Valve

Order No.	Description	Connection
09-24792	In-Line Non-Return Valve	25/38 mm (1" / 1.½")
09-24818	In-Line Non-Return Valve	19/32 mm (¾" / 1.¼")

Y-connections enable two pumps to discharge through a single line. Diverter valve is not required.

Y-connections

1 COMMOCHOMS		
	Order No.	Description
	01-24814	Y-connection 38X38X25
	01-24815	Y-connection 29/32X29/32X19



- Designed to prevent bilge debris blocking the inlet suction line
- Reduce the risk of debrisentering and blocking the pump
- Maintain prime in the suction line
- Easy to maintain and clean without any tools

Bilge Strainer With Non-Return Valve

Order No.	Description	Connection
09-24794	Strainer	19/32 mm (¾" / 1.¼"), 25/38 mm (1" / 1.½")



Hand Pumps

Light tough durable easy handling, extra fast pumping hand pumps are ideal stow aboards. Comfortable handle grip and extra large capacity makes manual pumping somewhat less of a chore. Ideal for emergency pumping and where electrical current is not available.







Order No.	Description
20195	18", 8 strokes per gallon
20255	25", 6 strokes per gallon
20375	36", 4 strokes per gallon

Spare Motor for Cartridge

Upgrade the output of your bilge pump in a matter of a few minutes by replacing the cartridge. Cleaning debris from the impeller has never been simpler or easier.



Order No.	Description	
28552	Motor for 500 GPH pumps, 12V	
28572	Motor for 750 GPH pumps, 12V	
28512	Motor for 1000 GPH pumps, 12V	
42522	Motor for 1250 GPH pumps, 12V	

Bilge Pump Control

Switch panel that gives full control of your equipment. Just push the button for manual or automatic bilge pumping. The automatic feature operates in combination with the automatic bilge switches or the electronic float switch. The three-position switch panel in matt black finish has an integrated fuse holder and operating light. Fuses included. Size: 73 mm/2.99" x 60 mm/2.17", 40 mm/ 1.57" depth.

Order No.	Description
82044	3 Way Bilge Pump Control, 12V
82044-24 V	3 Way Bilge Pump Control, 24V
82004	2 Way Bilge Pump Control, 12V
82004-24 V	2 Way Bilge Pump Control, 24V



3 Way Bilge Pump Control

Bilge Pump Counter

Easy to read and resettable bilge pump counter. Check frequency of bilge pump operation to head off potential issues down the road.

Order No.	Description
83000	Bilge pump counter



Ultima Switch™

Uses the patented Mirus field effect detector cells producing micro-electrical fields that detect disruptions caused by water and fluids. Detector cells are totally sealed and are never in contact with the water, will not corrode and are not affected by oil or foreign debris. No moving parts, totally sealed solid state electronics and field detectors, no mercury and no exposed sensors eliminate corrosion possibilities and makes the Ultima switch environmentally sensitive. Ultima activates at a 50 mm (2") fluid level and deactivates at a 20 mm (3/4") fluid level. A 3 second delay prevents false starts. Ultima switch is rated to handle pumps up to 20 amps at 12 or 24 volts.

Order No.	Description	Max Amp.
36303	Ultima Switch, 12/24V	20 A

Automatic Switch AS888/26014

For full automatic bilge pumping operation, connect the automatic switch to your bilge pump. The AS888 automatic switch has a time-proven micro switch without mercury. When water exceeds the acceptable level, the pump is turned on by a rolling steel ball, which changes the pressure on the micro switch. The AS888 attaches to any SPX Johnson Pump Marine bilge pump through the clip on "T-slot" and can be used with 6, 12, 24 or 32 V systems. Use AS888 for a better and safer life afloat!

Order No.	Description	Max Amp.
26014	Automatic Switch AS888	15 A



Electronic Float Switch

Compact mechanical switch offers a combination of reliable solid state electronics and a sealed float switch. False start prevention, no mercury, high impact plastic and encapsulated electronics adds up to dependability. Activates pump at 2" water level, deactivates pump at 3/4" water level. 12V. Handles up to 15 amps.



Order No.	Description	Max Amp.
36152	Electronic Float Switch, 12V	15 A
36252	Electronic Float Switch, 24V	8 A
54239	Base, Electronic Switch	

Bilge Alert™

High water alarm featuring digital technology using the patented Mirus field effect. Totally sealed fluid detector are never in contact with water, will not corrode and are not affected by oil or debris. Bilge Alert detects water and sends a signal (3 seconds delay) to the alarm and switch conveniently mounted on a panel. Three way rocker switch allows alarm to be tested, turned off and armed.

Order No.	Description
72303-001	Bilge Alert, High Water Alarm, w/ Ultima ,12V
72303-002	Bilge Alert, High Water Alarm, w/ Ultima, 24V
72303	Bilge Alert, High Water Alarm, w/ sensor, 12V



36303

72303

50358

Bilge Alert w/ sensor

Bilge Alert w/ Ultima

Order No.	Description
10605-00	90° Side Mount Bracket







Leading the way, SPX Johnson Pump has a full assortment of Livewell and Aerator pumps to meet the demanding needs of recreational and professional fisherman worldwide. Easy to clean and maintain replaceable motor cartridges. Pump styles in straight, 90 degree and sea cock installations available in flow rates from 500 GPH to 1600 GPH. A variety of accessories to complete that livewell installation including wash down kits, ice chest aerators, spary bars, and thru hull fittings. When you think livewell pumps think SPX Johnson Pump.

CE

CE marked according to following standards:

EN55014: 1993/Radio disturbance ISO8846: Small Craft – Electrical devices

- Protection against ignition of surrounding

flammable gases

ISO8849: Small craft – Electrically operated bilge pumps

ISO10133: Small Craft – Electrical systems – Extra-low voltage DC installations

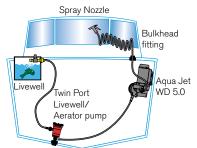
Livewell Aerating pumps

Twin Port Pumps

Offer the convenience of using only one intake for both the livewell and raw water wash down pump. The 3/4" tapered inlet connects directly to the sea cock and the upper outlet port provides a continuous flow of water through the 3/4" discharge to the livewell while the lower outlet port connects to the wash down pump through either a 1/2" or 3/4" ports. New high pressure inlet seal easily handles the higher pressures created by high speed pickups commonly used.

Order No.	Description
48503	500 GPH
48703	750 GPH, 12V
48903	1000 GPH, 12V
48103	1250 GPH, 12V*

^{*11/8&}quot; discharge to livewell. Does not include Dura-Port.





Cartridge Aerator Pump

Livewell pumps in 500 GPH and 750 GPH capacities with two different intake configurations of straight and 90°. Smaller profiles to fit in more confined spaces. Easy to change motor cartridge.

Order No.	Description
28503	500 GPH straight
38503	500 GPH 90°
28703	750 GPH straight
38703	750 GPH 90°
28103-00	1000 GPH straight, 12V
38103	1000 GPH 90°, 12V

Nut for straight thru hull 54033 Nut for 90 deg. thru hull 54033 AP



Order No.	Description		
61125	Aerator Timer		

Will turn on or cycle your aerator



Aqua Jet WD /Livewell Pump Kit 5.2

A wash down kit including a high capacity Aqua Jet WD 5.2, 5 bar (70 psi) pump, a 500 GPH Twin Port livewell pump, PUMProtector inlet strainer, spray nozzle, bulk head fitting with valve, 7.5 meters (25') of coiled wash down hose and two illuminated panel switches all in one package. Aqua Jet wash down/livewell pump kit makes it easy to add a wash down and livewell pump to any boat.

Order No.	Description
64634	Aqua Jet 5.2 WD/ 500 Livewell Pump Kit, 12V



PRO SERIES 1600 GPH Livewell/Baitwell

Features heavy duty bronze bottom inlet, 1600 GPH of pumping power, dual port capability, mega torque motor, double ball bearings, quiet running design, 1" NPT female intake. Built for the serious fisherman!



Order No.	Description	Capacity straight (13.6 V)	Capacity 3 ft (0.9 m) head (13.6 V)	Amperage	Fuse Size	Connection
16004B	1600 GPH, 12 V	1600 GPH	1550 GPH	7 A	10 A	1.1/8" and 1.1/4"
16004B-24	1600 GPH, 24 V	1600 GPH	1550 GPH	3.5 A	6 A	1.1/8"and 1.1/4"

Spare Parts

Order No.	Description
54061-22	1.1/8" Discharge Port
54061-23	1.1/4" Discharge Port

Ice Chest Aerator kit

Converts any good sized ice chest (Esky) into your own portable live bait tank. The Ice Chest Aerator will keep your live bait alive, or catch fresh, even during the heat of the day. Includes a sturdy First Mate pump, hose, spray bar, press on clamp, battery clamps and clear-cut instructions. Since there are no holes to drill the chest can always be returned to its original purpose.

Order No.	Description
24052	Ice Chest Aerator kit
60000	Cartridge style Aerator kit, complete with Batt. clips, Head, Mounting Feet





In-well Aerator kit

The easiest way to add oxygen to your live bait well. Use it as your primary aerator, or to recirculate while you are making a long run across the bay, or if you are trailing the boat, you can stop for fuel and be aerating your catch while the boat is on the trailer. A dependable 500 GPH pump forces water through the aerating head to provide vital oxygen for respiration ensuring your bait stays fresh longer. To empty the well at the end of the day, merely open the valve, activate the pump and water passes through a discharge fitting.



Order No.	Description
34024	In-well Aerator kit

Baitwell Pumps

Designed for self priming water transfer to keep bait alive and active. Quiet five chamber design.



Order No.	Description	Capacity	Pressure Cut	Fuse Size	Connection**
10-24677-03	2.4 GPM Baitwell, 12V	9 I/min – 2.4 GPM	N/A	10 A	³ / ₈ " NPT / hose ½"; ½" - 14 NPSM
10-13252-103-BW	4.0 GPM Baitwell, 12V	13L/min / 3.5 GPM	N/A	10 A	³ / ₈ " NPT / hose ½", ½" NPT / hose ¾"; ½" NPT, ¾" hose
10-13252-107-BW	5.2 GPM Baitwell, 12V	20L/min/ 5.2 GPM	N/A	15 A	GHT, 1/2" NPT x 3/4" hose

Aerating Heads

Spray head assemblies can be custom made to required fit, size and flow capacity. A variety of shapes, configuration and options allow us to build these aerating heads to your specifications. Prototyping kits available. Shown here are some of the more popular sizes and configurations.

Order No.	Description
70195	Valve Assembly – overall length 53/4", two 3/4" barbs, shut off valve
90061	Aerator Head – overall length 9"
90191	Aerator Head – overall length 133/4" thru-hull, one shut off valve
90261	Aerator head - 2 piece assembly, 8" spray bar with ¾" barb and 6" shut off assembly with ¾" barb and ¾" thru-hull
90331	Aerator Head – overall length 123/4", 3/4" thru-hull, one shut off valve
90511	Aerator head – overall length 93/4", 3/4" thru-hull, one shut off valve
90681	Aerator head – overall length 101/2", 3/4" barb, shut off valve w/bracket
90791	Aerator head – overall length 63/4", 3/4" thru-hull, shut off valve

90061





Thru-Hulls

Super tough and durable molded UV stabilized glass coupled polypropylene thru-hulls will not corrode or discolor and are not susceptible to electrolysis.



Order No.	Description
75035-00	3/4" 90° – white
75045	3/4" 90° – black
75095	3/4" white
75105	3/4" black
75125	1.1/8" white
75135	1.1/8" black

Accessories



Order No.	Description
71245	Transom Shims



Order No.	Description
74105	Strainer



Order No.	Description
77125	Intake Filter



in boats as bilge and deckwash pumps, fresh water pumps, refuelling

vacuum switch for automatic operation. Capacities vary from max 14

application. All motors are heavy duty to provide long service life even

I/min to 55 I/min, allowing the proper matching of the pump to the

under heavy use. Available in 12 or 24 volts.

pumps for oil and diesel. These pumps may be combined with a



CE

CE marked according to following standards:

F2P10-19, F3B-19, F4B-19, F4B-11

EN50082-1: 1992/Generic EMS Standard EN55014: 1993/Radio disturbance IEC801-2: 1984/Electrostatic Discharge IEC801-3: 1984/Radiated Immunity Test

ISO8846: Small Craft - Electrical devices - Protection against ignition of surrounding flammable gases

ISO8849: Small Craft – Electrically operated bilge pumps

ISO 10133: Small Craft - Electrical systems - Extra-low voltage d.c. installations

F5B-19 12/24 V

EN55014: 1993/Radio disturbance

DC Driven Flexible Impeller Pumps

Pumps suited for use in boats as bilge and deckwash pumps, fresh water pumps, refuelling pumps for oil and diesel. Can be combined with a vacuum switch for automatic operation. Capacities vary from max 14 l/min to 55 l/min, allowing the proper matching of the pump to the application. All motors are heavy duty to provide long service life even under heavy use.



F2P10-19 - Capacity 15 I/min

Fully equipped, self-priming multipurpose pump operating on a simple and uncomplicated principle. Ideal for pumping water, oils and chemicals.

Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24180-1	F2P10-19, 12V	PTMT	09-1077B-9	Lip seal	½" hose	172 mm – 6.8"	117 mm – 4.6"	78 mm	1,6 kg – 3.5 lbs
10-24180-2	F2P10-19, 24V	PTMT	09-1077B-9	Lip seal	½" hose	172 mm – 6.8"	117 mm – 4.6"	78 mm	1,6 kg – 3.5 lbs



F3B-19 - Capacity 21 I/min

Perfect for bilge pumping, deckwash, water circulation, oil and diesel refuelling at dockside service, etc.

Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24516-03	F3B-19, 12V	Bronze	09-843S-9	Lip seal	3/8" NPT	170 mm - 6.7"	113 mm – 4.4"	82 mm - 3.22"	2 kg – 4.5 lbs
10-24516-04	F3B-19, 24V	Bronze	09-843S-9	Lip seal	3/8" NPT	170 mm - 6.7"	113 mm – 4.4"	82 mm - 3.22"	2 kg - 4.5 lbs



F3B-19 Oil Change - Capacity 21 I/min

Reversible rubber impeller pump with integrated quick reversing switch. Designed to remove old oil from the engine/fill new oil back into the engine.

Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24760-03	F3B-19 Oil change, 12V	Bronze	09-843S-9	Lip seal	3/8" NPT	70 mm - 6,7"	113 mm – 4.4"	115 mm – 4.5"	2,1 kg - 4.5 lbs
10-24760-04	F3B-19 Oil change, 24V	Bronze	09-843S-9	Lip seal	3/8" NPT	70 mm - 6,7"	113 mm - 4.4"	115 mm - 4.5"	2,1 kg - 4.5 lbs



F38B-19 - Capacity 35 I/min

Perfect for bilge pumping, deckwash, water circulation, oil and diesel refuelling at dockside service, etc.

Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24727-03	F38B-19, 12V	Bronze	09-824P-9	Lip seal	Hose 1" / ½" NPT	180 mm – 7"	120 mm - 4.72"	90 mm - 3.54"	3 kg – 6.6 lbs
10-24727-04	F38B-19, 24V	Bronze	09-824P-9	Lip seal	Hose 1" / 1/2" NPT	180 mm - 7"	120 mm - 4.72"	90 mm – 3.54"	3 kg – 6.6 lbs



F4B-19 - Capacity 48 I/min

Perfect for bilge pumping, deckwash, water circulation, oil and diesel refuelling at dockside service, etc.

Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24689-03	F4B-19, 12V	Bronze	09-824P-9	Lip seal	Hose 1" / 1/2" NPT	202 mm - 8"	120 mm - 4.72"	90 mm - 3.54"	3 kg – 6.6 lbs
10-24689-04	F4B-19, 24V	Bronze	09-824P-9	Lip seal	Hose 1" / 1/2" NPT	202 mm - 8"	120 mm – 4.72"	90 mm - 3.54"	3 kg – 6.6 lbs

F4B-11 Ultra Ballast - Capacity 52 I/min

Designed to quickly fill or, when reversed, drain a ballast tank at a rate of more than 45 I/min (12 GPM). Capable of pumping fresh or sea water the pump's robust design can handle the rigors of continuous duty usage, is reversible, and has a built in thermal overload for added protection. Polarity reversing switch kit 09-47196 available as accessory. Do not run dry for extended periods of time. It will increase the pump longevity and ensure reliable performance for many years. Note! Only for water handling.



Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24690-03	F4B-11 Ultra Ballast, 12 V	Bronze	09-824P-1	Lip seal	Hose 1" / 1/2" NPT	202 mm - 8"	120 mm - 4.72"	90 mm – 3.54"	3 kg- 6.6 lbs
10-24690-04	F4B-11 Ultra Ballast, 24 V	Bronze	09-824P-1	Lip seal	Hose 1" / 1/2" NPT	202 mm - 8"	120 mm - 4.72"	90 mm – 3.54"	3 kg – 6.6 lbs

F5B-19 - Capacity 55 I/min

For bilge pumping, deckwash, water circulation, oil and diesel refuelling at dockside service, etc.



Order No.	Description	Body	Impeller	Seal	Connection	Length	Width	Height	Weight
10-24188-4	F5B-19, 12 V	Bronze	09-1027B-9	Mech. seal	3/4" NPT	258 mm - 10.15"	131 mm – 5.15"	120 mm - 4.72"	8kg/17.5lbs
10-24188-5	F5B-19, 24 V	Bronze	09-1027B-9	Mech. seal	3/4" NPT	258 mm - 10.15"	131 mm – 5.15"	120 mm - 4.72"	8kg/17.5lbs

Gear Pump with Oil Change Kit

Light and compact oil change pump with pump body and gears made of PTFE. Complete with oil dip stick extraction tube 6 and 8 mm (0.236" and 0.315"). 180 cm (70.9") connection wires with battery clamps.

Port connection: Outlet: 14 mm (0.551") hose

Inlet: 8 mm (0.315") hose
Self priming: Up to 1 m (3.28 feet)
Capacity: 8 I/min (2.11 GPM)

Capacity: 8 I/min (2.11 GPM)
Dimension: 140 x 80 mm (5.51" x 3.15")

Weight: 1.1 kg Fuse size 12V: 8 A Fuse size 24V: 6 A

Order No.	Description
80-47508-01	GP8-19 12V
80-47508-02	GP8-19 24V
65000	12V complete Oil Change Kit with pail

65000



Run Dry Capable

Pressure and Capacity Data (based on water at 20°C/68°F)

F2P1	F2P10-19					e Draw
Bar	kPa	psi	I/min	GPM	12 V	24 V
Count	t. Duty					
0	0	0	15.0	4.0	5.6	4.0
0.1	10	1.45	14.5	3.8	5.7	4.0
0.2	20	2.90	14.0	3.7	5.8	4.1
0.3	30	4.35	13.5	3.6	5.9	4.1
0.6	60	8.7	11.0	2.9	6.1	4.2
Intern	nittent D	outy				
0.75	75	10.8	9.6	2.5	6.5	4.3
0.9	90	13.0	7.0	1.8	6.5	4.8
Fuse	Require	d			15 A	8 A

F3B-1	F3B-19					e Draw
Bar	kPa	psi	l/min	GPM	12 V	24 V
Count	. Duty					
0	0	0	21.0	5.5	8.4	4.0
0.1	10	1.45	20.5	5.4	8.5	4.0
0.2	20	2.9	20.0	5.3	8.6	4.1
0.3	30	4.35	19.5	5.2	8.8	4.1
0.6	60	8.7	17.8	4.7	9.0	4.2
Interm	nittent D	uty				
0.9	90	13.0	15.6	4.1	9.6	4.3
1.2	120	17.4	12	3.2	10.3	4.8
Fuse Required					15 A	8 A

F38B	F38B-19					e Draw
Bar	kPa	psi	l/min	GPM	12 V	24 V
Count	t. Duty					
0	0	0	35.0	9.2	10.9	5.0
0.1	10	1.45	33.8	8.9	11.0	5.1
0.2	20	2.9	32.2	8.5	11.0	5.1
0.3	30	4.35	31.0	8.2	11.1	5.2
0.6	60	8.7	25.5	6.7	11.9	5.4
Intermittent Duty						
0.9	90	13.0	15.3	4.0	13.6	6.0
1.2	120	17.4	2.0	0.5	15.8	7.1
Fuse I	Require		15 A	8 A		

F4B-1	F4B-19					e Draw	
Bar	kPa	psi	I/min	GPM	12 V	24 V	
Count	. Duty						
0	0	0	48.0	12.7	12.2	6.5	
0.1	10	1.45	45.0	11.9	12.3	6.7	
0.2	20	2.9	44.5	11.7	12.2	6.8	
0.3	30	4.35	41.0	10.8	13.1	7.1	
0.6	60	8.7	34.0	9.0	14.9	7.5	
Interm	Intermittent Duty						
0.9	90	13.0	25.0	6.6	16.5	7.8	
1.2	120	17.4	11.0	2.9	18.3	8.8	
Fuse	Require	d			15 A	8 A	

F5B-1	19	Ampere	e Draw			
Bar	kPa	psi	I/min	GPM	12 V	24 V
Count	t. Duty					
0	0	0	55.0	14.5	23.2	11.9
0.3	30	1.45	49.4	13.1	24.2	12.8
0.6	60	8.7	39.9	10.5	25.1	13.3
0.9	90	13.0	30.1	8.0	26.2	14.0
1.2	120	17.4	19.3	5.1	28.0	14.7
1.5	150	21.76	9.3	2.4	29.8	15.3
Fuse Required					50 A	25 A
Recor	nmende	ed wire s	size		16 mm ²	6 mm ²

Accessories



Polarity Reversing Switch Kit for Ultra Ballast Pump F4B-11

Order No.	Description
09-47196	Polarity Reversing Switch Kit



Vacuum Switch	see page 38
Order No.	Description
09-45053	Vacuum Switch



Order No.	Description
09-46553	Deckwash Kit



and salt water circulation.

glycol circulation.

CM-series – a line of compact magnetic driven centrifugal

pumps which combine high flow rates with very low electric

current consumption. Suitable for fresh water, ethylene glycol

C090 - mechanical sealed pumps with a motor designed for

continuous operation. Suitable for fresh water and ethylene



CE

CE marked according to following standards:

CM10P7-1, CM30P7-1, CM90, C090P5-1 Recreational Craft Directive 94/25/EEC

 $ISO\ 8846:\ 1990/Small\ Craft\ -\ Electrical\ devices\ -\ Protection\ against\ ignition\ of\ surrounding\ flammable\ gases$

(ISO 10133: 1994/Small Craft -Electrical systems - Extra low-voltage DC installations)

Electromagnetic Compatibility Directive 2004/108/EC

EN55014-1: 2006 Electromagnetic compatibility –

Requirements for household appliances, electric tools and similar apparatus – Part 1:Emission

EN55014-2: 1997 +A1: 2001 Electromagnetic compatibility -

Requirements for household appliances, electric tools and similar apparatus - Part 2:Immunity.

EN61000-6-3: 2007 Electromagnetic compatibility (EMC) -

Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments.

2004/104/EC: 2004 Annex1; paragraph 6.5, 6.6, 6.8 and 6.9.

CM10 & CM30

Pump body PPA thermoplastic Impeller PPS thermoplastic O-ring **EPDM**

Shaft Stainless steel PSU

Magnet housing

Motor 12/24V DC enclosed (as per IP67) permanent magnet, ball bearing mounted

motor, designed for continuous operation water/glycol mixture; max. 60% glycol,

fresh and salt water

Min -40°C Max +100°C Liquid temp. Hose connection

Ø 16 mm (5/8") or 20 mm (3/4") hose. Note! CM30P7-1 with Ø 16 mm (5/8")

available on request

Dimensions and weight

CM10P7-1 CM30P7-1 Length 177 mm - 6.97" 177 mm - 6.97" 68 mm - 2.68" 68 mm - 2.68" Width 85 mm - 3.35" 85 mm - 3.35" Height 0.53 kg - 1.2 lbs 0.6 kg - 1.3 lbs Weight





CM10 & CM30 Rebuild Kit

Order No.	Description
09-46551	Impeller cpl. CM10/30
36-503-023	Clamp Bracket

Ø 16 mm (5/°")

Liquid

0 10 111111 (78)			
Order No.	Description	Capacity	Flexible cord
10-24501-03	CM10P7-1, 12V	15 I/min at 0.1 bar (4 GPM at 3.3 ft)	-
10-24501-04	CM10P7-1, 24V	15 I/min at 0.1 bar (4 GPM at 3.3 ft)	-
10-24503-03	CM30P7-1, 12V	20 I/min at 0.1 bar (5.2 GPM at 3.3 ft)	-
10-24503-04	CM30P7-1, 24V	20 I/min at 0.1 bar (5.2 GPM at 3.3 ft)	-
10-24486-03	CM10P7-1, 12V w. flexible cord	15 I/min at 0.1 bar (4 GPM at 3.3 ft)	04-36245-01
10-24486-04	CM10P7-1, 24V w. flexible cord	15 I/min at 0.1 bar (4 GPM at 3.3 ft)	04-36245-01
10-24488-03	CM30P7-1, 12V w. flexible cord	20 I/min at 0.1 bar (5.2 GPM at 3.3 ft)	04-46249-01
10-24488-04	CM30P7-1, 24V w. flexible cord	20 I/min at 0.1 bar (5.2 GPM at 3.3 ft)	04-36245-01

Ø 20 mm (3/4")

0 20 11111 (74)			
Order No.	Description	Capacity	Flexible cord
10-24502-03	CM10P7-1, 12V	18.5 I/min at 0.1 bar (5 GPM at 3.3 ft)	-
10-24502-04	CM10P7-1, 24V	18.5 I/min at 0.1 bar (5 GPM at 3.3 ft)	-
10-24504-03	CM30P7-1, 12V	26 I/min at 0.1 bar (6.9 GPM at 3.3 ft)	-
10-24504-04	CM30P7-1, 24V	26 I/min at 0.1 bar (6.9 GPM at 3.3 ft)	-
10-24487-03	CM10P7-1, 12V w. flexible cord	18.5 I/min at 0.1 bar (5 GPM at 3.3 ft)	04-36245-01
10-24487-04	CM10P7-1, 24V w. flexible cord	18.5 I/min at 0.1 bar (5 GPM at 3.3 ft)	04-36245-01
10-24489-03	CM30P7-1, 12V w. flexible cord	26 I/min at 0.1 bar (6.9 GPM at 3.3 ft)	04-46249-01
10-24489-04	CM30P7-1, 24V w. flexible cord	26 I/min at 0.1 bar (6.9 GPM at 3.3 ft)	04-36245-01

CM90

System pressure Liquid

-0.3 to +3.0 bar; stationary max. 4.0 bar water/glycol mixture; max. 60% glycol,

fresh and salt water

Motor service life More than 5,000 hours at nominal voltage 10,000 start/stops. Interchangeable motor.

Nominal 13.6V DC Motor, voltage for use between 10-16V

Nominal 27.2V DC for use between 20-32V Input power Dry running Dimensions Ports

Weight Body Mounting Max. 125W 30 minutes

244 mm (L) x 120 mm (W) x 150 mm (H) Ø 20 mm ($^{3}4''$) & Ø 38 mm ($^{1.1}2''$) 3.0 kg (6.6 pounds)

PPA, glass-fiber reinforced

Separate universal bracket for flat surfaces



Ø 20 mm (3/4")

Order No.	Description	Capacity
10-24750-01	CM90P7-1, 12V	50 I/min (17.2 GPM) at 0.25 bar
10-24750-02	CM90P7-1, 24V	50 I/min (17.2 GPM) at 0.25 bar

Ø 38 mm (1.1/2")

Order No.	Description	Capacity
10-24664-01	CM90P7-1, 12V	90 I/min (23.7 GPM) at 0.25 bar
10-24664-02	CM90P7-1, 24V	90 I/min (23.7 GPM) at 0.25 bar

C090

Liquid

Pump body PA66 thermoplastic Impeller PA66 thermoplastic Shaft Stainless steel Shaft seal Mechanical seal

12/24 V DC enclosed (as per IP31) Motor

permanent magnet, ball bearing mounted motor, designed for continuous operation water/glycol mixture; max. 60% glycol,

fresh water

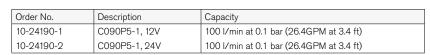
Min -30°C Max +100°C Liquid temp. Ø 38 mm (1.1/2") hose Hose connection

Dimensions and weight

Length 211 mm - 8.3" Width 117 mm - 4.6"

110 mm - 4.56" from baseplate Height (totally 116 mm - 4.8")

Weight 1.75 kg - 3.8 lbs







as quietly as a toilet on land.

convenience of a land-based lavatory at sea — a marine toilet that flushes

In combination with the Viking Power 16 or 32 and a Grey Water Tank you

will have a complete waste water handling system.





CE marked according to following standards:

Viking Power

Recreational Craft Directive 94/25/EEC

Small Craft - Electrical devices - Protection against ignition of surrounding flammable gases ISO8846:

ISO10133: Small Craft - Electrical systems - Extra-low voltage d.c. installations

ISO8849: Small Craft - Electrically operated bilge pumps

Electromagnetic Compatibility Directive 89/336/EEC

EN55014: 1993/Radio disturbance

AquaT Sllent Electric, Standard Electric & Premium

Recreational Craft Directive 94/25/EEC

Small Craft - Electrical devices - Protection against ignition of surrounding flammable gases

Electromagnetic Compatibility Directive 89/336/EEC

EN55014: 1993/Radio disturbance

Viking Power 16

A modern, single-chamber, self-priming diaphragm pump that can be set up in several different pump/motor configurations. It is easy to install anywhere after the drain outlet in the wastewater system or as a bilge pump in any leisure craft – new or used.

Its non-choke valves mean that no in-line filters are necessary. The pump can be run dry, and it can also handle a mixture of air and water without difficulty. The Viking Power 16 is self-priming up to a height of 3 meters.

With its low pulse and muffled rubber bracket, this pump offers quiet operation. Specifically designed to pump waste water, the Viking Power 16 has been built to last, and engineered for easy maintenance. When it comes time to replace the premium grade reinforced nitrile rubber diaphragm, you can put in a spare without even removing the pump from the system. Delivered with 1" hose and ¾" hose ½" BSP KlickTite™ XL connectors. 90° KlickTite™ XL connectors available as extra accessory.



Viking Power 16

Motor 2.3 amp (12V), 1.2 amp (24V) at 0.1 bar

12/24V DC (with built-in thermal protection)

Body Nylon, glass-fiber reinforced

Valves Nitrile rubber
Diaphragm Reinforced nitrile rubber

Length 186 mm – 7.3" Width 235/181 mm – 9.3"/7.1" Height 118/204 mm – 4.6/8"

Weight 2.6 kg - 5.7 lbs



Order No.	Description	Capacity, open flow	Capacity at 0.1 bar	Max lift	Max head	Connection
10-13350-03	Viking Power 16, 12V	16 I/min - 4.2 GPM	15 I/min – 4.0 GPM	3 m - 9.8 ft	3 m - 9.8 ft	KlickTite™ XL connectors for 1" hose or ³ / ₄ " hose and ¹ / ₂ " BSP
10-13350-04	Viking Power 16, 24V	16 I/min - 4.2 GPM	15 I/min - 4.0 GPM	3 m – 9.8 ft	3 m – 9.8 ft	threads; straight and 90° (optional)
09-47148	Diaphragm kit					
09-47149	Body kit					
01-36035	Retainer Clip (Bulk)					
01-36192	Check Valve					

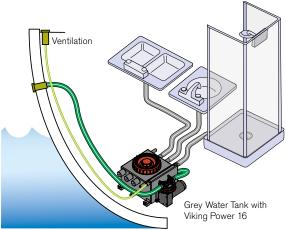
Grey Water Tank

The Grey Water Tank is designed to be used as collection tank for waste water from showers, sinks, dishwashing machines, etc with 19 mm, 25 mm and 38 mm inlet ports, and 19 mm and 25 mm outlet ports. The tank includes an Ultima Switch for automatic operation and is easy to connect to any 12V/24V pump up to 20 amp. The tank is prepared for Viking Power 16, with pre-drilled holes for the pump.

Dimensions 185x280x340 mm

Order No.	Description
09-13384	Grey Water Tank, excl. Viking Power 16
10-13350-03-003	Grey Water Tank & Viking Power 16 Combo
	-











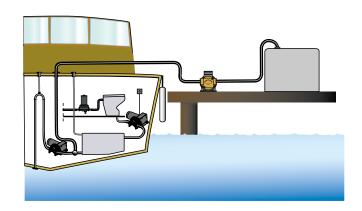
Viking Power 32 & Viking Power Vacuum

The Viking Power 32 and Viking Power Vacuum diaphragm pumps have been designed to meet the rigorous demands of the world's leading manufacturers of boats, recreational vehicles and busses.

Thanks to its single-chamber design and non-choke valves, the Viking Power 32, can be used to pump un-macerated sewage to a holding tank or transfer it onwards to a septic tank.

The Viking Power Vacuum has double check-valves and can therefore also be used in vacuum toilet systems. Naturally, pumping ordinary shower or sink drain water or bilge water is no problem for either pump.

Like the Viking Power 16, this pump has been engineered with a ball-bearing supported transmission for long service life. The pump cannot only be run dry, it can also handle a mixture of air and water without difficulty. The Viking Power 32/Vacuum provides maximum flow of 32 I/min and is self-priming up to a height of 2.5 m for VP 32 or 5 m for VP Vacuum. Although powered by an electric motor, this pump can also be cranked by hand in case of an emergency.





Viking Power 32

3.3 amp (12V), 1.6 amp (24V) at 0.1 bar 12/24V DC (with built-in thermal protection)

Body Nylon Nitrile rubber Valves

Diaphragm Reinforced nitrile rubber 277 mm - 10.9" Length 264 mm - 10.4" Width 192 mm - 7.6" Height 5.0 kg - 11.0 lbs Weight



Crank for manual handling

Order No.	Description	Capacity, open flow	Capacity at 0.1 bar	Max lift	Max head	Connection
10-13373-03	Viking Power 32, 12V	32 I/min – 8.5 GPM	30 I/min - 7.9 GPM	2.5 m - 8.2 ft	4 m – 13.1 ft	38 mm / 1½"
10-13373-04	Viking Power 32, 24V	32 I/min – 8.5 GPM	30 I/min - 7.9 GPM	2.5 m - 8.2 ft	4 m – 13.1 ft	38 mm / 1½"
01-36051	Rubber valve					



Viking Power Vacuum

3.3 amp (12V), 1.6 amp (24V) at 0.1 bar Motor

12/24V DC (with built-in thermal protection)

Body Nvlon Valves Nitrile rubber

Diaphragm Reinforced nitrile rubber

Length 357 mm - 14" 271 mm - 10.7" Width Height 192 mm - 7.6" Weight 5.1 kg - 11.2 lbs



Crank for manual handling

Order No.	Description	Capacity, open flow	Capacity at 0.1 bar	Max lift	Max head	Connection
10-13373-07	Viking Power Vacuum, 12V	24 I/min - 6.3 GPM	22 I/min - 5.8 GPM	5 m - 16.4 ft	4 m – 13.1 ft	38 mm / 1½"
10-13373-08	Viking Power Vacuum, 24V	24 I/min – 6.3 GPM	22 I/min – 5.8 GPM	5 m – 16.4 ft	4 m – 13.1 ft	38 mm / 1½"

Macerator Pump

The TA3P10-19 macerator pump takes care of toilet waste. A rotary cutter shreds waste before it is pumped into or out from the holding tank. The pump should be connected as close as possible to the holding tank discharge outlet or the bowl discharge outlet. Note! Use unbleached lavatory paper only.

TA3P10-19

Motor 12/24V DC (with built-in thermal protection) Length 230 mm - 9.06" Phenol Plastic (PF) Width 108 mm - 4.25" Body 82 mm - 3.23" Nitrile 09-1052S-9 Impeller Height Housing Thermoplastic Polyester (PET) Weight 1.9 kg - 4.2 lbs

Shaft Stainless Steel Seal Lip Seal

Order No.	Description	Capacity at 0.2 bar (6.7 ft)	Inlet Connection	Amperage	Fuse size	Outlet Connection
10-24453-01	TA3P10-19, 12V	37 I/min - 10 GPM	1½" (dia 38 mm) hose or 1½"NPT	15 A	20 A	1" (25.4 mm) hose
10-24453-02	TA3P10-19, 24V	37 I/min - 10 GPM	1½" (dia 38 mm) hose or 1½"NPT	7 A	12 A	1" (25.4 mm) hose

Spare Parts

Order No.	Description
09-45595	Rebuild kit



09-1052S-9 Impeller



AquaT™ Marine toilets

Available in a wide variety of different versions marketed under four basic models — standard, silent and premium electric-powered or manual — the AquaT™ marine toilet has been designed to meet virtually every conceivable lavatory installation situation onboard.

Priced competitively, the fine finish and well thought-through design of these toilets is remarkable. Made from white vitreous porcelain, and with corrosion resistant parts throughout, the AguaT™ marine toilet, is guiet, robust and easy to clean.

Most models can be ordered with standard, bevelled or low profiles in order to fit almost any hull and bulkhead configuration, and all are available in either compact or comfort versions so you can outfit your marine lavatory with the perfect-sized toilet, no matter what the layout.

The standard electric model is equipped with a combined pump unit for disposal and flushing. It is easy to install and an economical choice of electrical toilet.

The silent and premium electric models are shipped with well-proven Agua Jet diaphragm pumps in either 12V or 24V versions, and the manual version incorporates an ergonomically designed, handpowered piston pump that can be mounted for either left-hand or right-hand use.

It is probably fair to think of most toilets as commonplace products, but look at the features and you are sure to see that the AguaT™ is far from ordinary. Quiet, hygienic and reliable, the AquaT™ marine toilet is perfect for almost any marine toilet room.



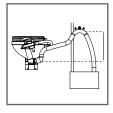
Toilet mounted below the waterline and discharging overboard.



Toilet mounted above the waterline and discharging overboard.



Toilet waste discharging into holding tank, discharging elbow below top of the holding tank at



Toilet waste discharging into holding tank, discharging elbow always above top of the holding



Manual Compact 80-47229-01 right view (shown above) 80-47230-01 80-47229-011 left view



Manual Comfort



Standard Electric Compact 80-47435-01, 12V 80-47435-02, 24V



Standard Electric Comfort 80-47436-01,12V 80-47436-02, 24V



Silent Electric Compact 80-47231-01, 12V 80-47231-02, 24V



Silent Electric Comfort 80-47232-01, 12V 80-47232-02, 24V



Smart Standard Electric 80-47505-01, 12V 80-47505-02, 24V



Smart Silent Electric 80-47506-01, 12V 80-47506-02, 24V



Premium Low 80-47233-01, 12V 80-47233-02, 24V



Premium Low, Bevelled 80-47234-01.12V 80-47234-02, 24V



Solenoid Low, Bevelled 80-47234-03, 12V 80-47234-04, 24V



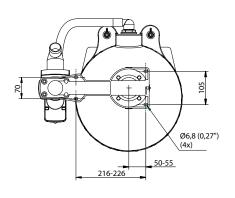
Premium Std. 80-47235-01, 12V 80-47235-02, 24V

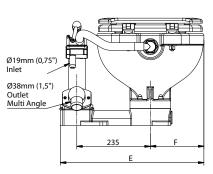


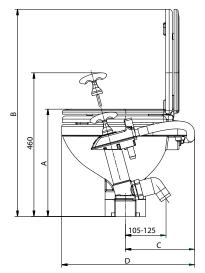
Premium Std. Bevelled 80-47236-01, 12V 80-47236-02, 24V

AquaT™ Manual

Order No.	Description	Net Weight	А	В	С	D	E	F
80-47229-01	Compact	9,6 kg	345 mm	650 mm	215 mm	425 mm	450 mm	170 mm
		21 lbs	13.6"	25.6"	8.5"	16.7"	17.7"	6.7"
80-47230-01	Comfort	11 kg	340 mm	705 mm	275 mm	490 mm	470 mm	185 mm
		24 lbs	13.4"	27.8"	10.8"	19.3"	18.5"	7.3"

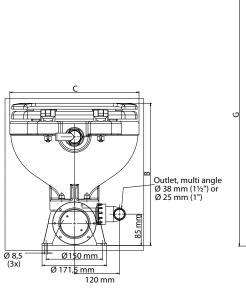


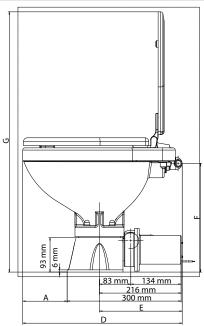




AquaT™ Silent Electric

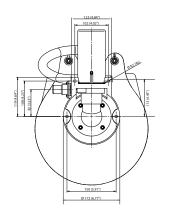
Order No.	Description	Net Weight	А	В	С	D	E	F	G
80-47231-01	Compact, 12V	9,6 kg	120 mm	390 mm	335 mm	420 mm	215 mm	290 mm	700 mm
		21 lbs	4.7"	15.4"	13.2"	16.5"	8.5"	11.4"	27.6"
80-47231-02	Compact, 24V	9,6 kg	120 mm	390 mm	335 mm	420 mm	215 mm	290 mm	700 mm
		21 lbs	4.7"	15.4"	13.2"	16.5"	8.5"	11.4"	27.6"
80-47232-01	Comfort, 12V	11 kg	190 mm	385 mm	365 mm	490 mm	275 mm	280 mm	755 mm
		24 lbs	7.5"	15.2"	14.4"	19.3"	10.8"	11.0"	29.7"
80-47232-02	Comfort, 24V	11 kg	190 mm	385 mm	365 mm	490 mm	275 mm	280 mm	755 mm
		24 lbs	7.5"	15.2"	14.4"	19.3"	10.8"	11.0"	29.7"

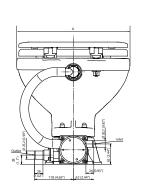


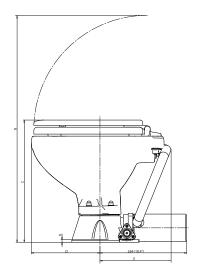


AquaT™ Standard Electric

Order No.	Description	Α	В	С	D	Е
80-47435-01	Std. electric compact, 12V	345 /	692 /	373 /	209 /	216 /
80-47435-02	Std. electric compact, 24V	13.6"	27.2"	14.7"	8.23"	8.5"
80-47436-01	Std. electric comfort, 12V	366 /	747 /	380 /	220 /	275 /
80-47436-02	Std. electric comfort, 24V	14.4"	29.4"	15"	8.66"	10.8"

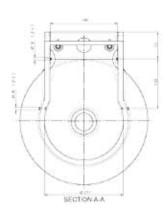




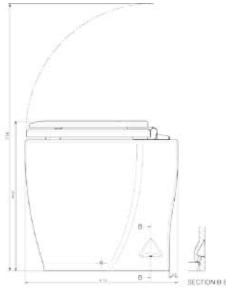


AquaT™ Smart Standard Electric/Smart Silent Electric

Order No.	Description	
80-47505-01	Smart Stanard Electric, 12V	
80-47505-02	Smart Stanard Electric, 24V	
80-47506-01	Smart Silent Elctric, 12V	
80-47506-02	Smart Sllent Electric, 24V	



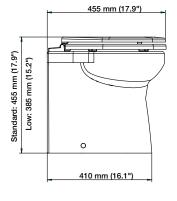


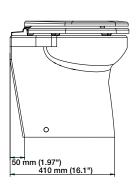


AquaT™ Premium

Order No.	Description	
80-47233-01	Low, 12V	
80-47233-02	Low, 24V	
80-47234-01	Low, bevelled, 12V	
80-47234-02	Low, bevelled, 24V	
80-47234-03	Solenoid, Low, bevelled, 12V	
80-47234-04	Solenoid, Low, bevelled, 24V	
80-47235-01	Std., 12V	
80-47235-02	Std., 24V	
80-47236-01	Std. bevelled, 12V	
80-47236-02	Std. bevelled, 24V	







Accessories

Vented Loop

vented Loop	
Order No.	Description
81-47237-01	Vented Loop, 3/4"
81-47237-02	Vented Loop, 1"
81-47237-03	Vented Loop, 1.1/2"



Vacuum valve -Siphon breaker

Sipriori breaker		
Order No.	Description	
09-47316-01	Siphon Breaker, Spud Size 12 mm	
09-47316-02	Siphon Breaker, Spud Size 16 mm	
09-47316-03	Siphon Breaker, Spud Size 19 mm	
09-47316-04	Siphon Breaker, Spud Size 22 mm	
09-47316-05	Siphon Breaker, Spud Size 25 mm	
09-47316-06	Service Kit	
09-47316-05	Siphon Breaker, Spud Size 25 mm	



Y-valve

Order No.	Description
81-47238-01	Y-valve 1.½" Inner diameter 1" Straight



Control Panel

Order No.	Description
81-36105-01	Control Panel, 12V & 24V



Conversion Kit

Order No.	Description
81-47240-01	Conversion kit 12V
81-47240-02	Conversion kit 24V



Flush 2.4 Pump

Order No.	Description
10-24677-01	Flush 2.4 Pump, 12V
10-24677-02	Flush 2.4 Pump, 24V



Solenoid

Order No.	Description
81-47301-01	Solenoid valve 12V
81-47301-02	Solenoid valve 24V



Viking Power 32

9	
Order No.	Description
10-13373-03	Viking Power 32, 12V
10-13373-04	Viking Power 32, 24V



Spare Parts

Order No.	Description
81-47239-01	Manual pump assembly
81-47241-01	Wooden Seat Compact
81-47241-02	Wooden Seat Comfort & Premium
81-47242-01	Gasket kit, all gaskets in the manual toilet
81-47243-01	Plastic base, plastic base and tap with the ring for manual toilet
81-47244-01	Plastic handle kit, only the plastic handle for manual toilet
81-47245-01	Bowl Compact
81-47245-02	Bowl Comfort
81-47245-03	Bowl Low
81-47245-04	Bowl Low. Bev
81-47245-05	Bowl Std.
81-47245-06	Bowl Std. Bev
81-47246-01	Intake elbow, inlet pipe gasket and nut for manual and silent electric versions
81-47246-02	Outlet elbow, outlet pipe gasket and plastic nut
81-47246-03	Intake elbow, inlet pipe gasket and plastic nut for Premium versions
81-47247-01	Base group (silent electric and premium versions)
81-47248-01	12V Motor group (silent electric and premium versions)
81-47248-02	24V Motor group (silent electric and premium versions)
81-47267-01	Hinge set
81-47268-01	Base gasket kit
81-47269-01	Flush handle kit
81-47273-01	Outlet elbow, Silent & Premium
81-47274-01	Bowl gasket





CE

CE marked according to following standards:

AirV – Extra Heavy Duty Radial Blowers ISO 9097:1991 Marine (Small craft, Electrical fans) ISO 8846:1990 (Ignition protection) ISO 10133: 2000 (Electrical systems) EN 55014-1:2006 (2004/108EC)

AquaH - Marine Water Heaters LOW VOLTAGE (LVD) DIRECTIVE 2006/95/EC

- EN 60335-1 (2008):
- EN 60335-2-21 (02-2004) + A1 (07-2005) + EC (01-2008): ELECTROMAGNETIC COMPATIBILITY (EMC) DIRECTIVE - 2004/108/EC
- EN 55014 1 (1999) + A1 (2000) + A2 (2003)
- EN 55014 2 (1998) + A1 (2002)

AirV extra heavy duty radial blowers for marine engine compartment ventilation prior to start up. The blowers are made for continuous duty and can therefore be used for air intake or extraction in bilges, galleys, accommodation and other compartments.

AquaH is an innovative series of AISI 316 stainless steel water heaters, with a storage capacity of 22 up to 80 litres (5.3 to 19.3 gal.). Dual heating as standard - electrical heating and indirect heating based on an second heat source, for example the cooling system from the Marine engine or generator set.

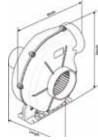
AirV - Extra Heavy Duty Radial Blowers

Marine radial blowers designed for engine compartment ventilation prior to start up. Made for continuous duty and is therefore suitable for air intake or extraction in bilges, galleys, accommodation and other compartments. Flange Mount and Flex Mount design with double ball bearing motor, high-impact anti-shock ABS body and shaft and screws in stainless steel.













SpotemeNP:arts	Description	Capacity	Dimensions H x W x L	Port Con	nections	Current
'				Inlet	Outlet	[Amp]
80-47416-01	AirV 3-280 Flange Mount, 12V	280 m³/h, 163 cfm	200 x 165 x 195 mm / 7.87 x 6.5 x 7.68"	75 mm / 2.95"	72 mm / 2.83"	3,9
80-47416-02	AirV 3-280 Flange Mount, 24V	280 m³/h, 163 cfm	200 x 165 x 195 mm / 7.87 x 6.5 x 7.68"	75 mm / 2.95"	72 mm / 2.83"	2,5
80-47417-01	AirV 4-550 Flange Mount, 12V	550 m³/h, 324 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	110 mm / 4.33"	103 mm / 4.06"	12,5
80-47417-02	AirV 4-550 Flange Mount, 24V	550 m³/h, 324 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	110 mm / 4.33"	103 mm / 4.06"	7
80-47418-01	AirV 4-750 Flange Mount, 12V	750 m³/h, 441 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	150 mm / 5.91"	103 mm / 4.06"	14,5
80-47418-02	AirV 4-750 Flange Mount, 24V	750 m³/h, 441 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	150 mm / 5.91"	103 mm / 4.06"	8,5
80-47419-02	AirV 4-1000 Flange Mount, 24V	1000 m³/h, 589 cfm	290 x 257x 180 mm / 11.4 x 10.1 x 7.09"	150 mm / 5.91"	103 mm / 4.06"	15,5
80-47420-01	AirV 4-550 Flex Mount, 12V	550 m³/h, 324 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	110 mm / 4.33"	103 mm / 4.06"	12,5
80-47420-02	AirV 4-550 Flex Mount, 24V	550 m³/h, 324 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	110 mm / 4.33"	103 mm / 4.06"	7
80-47421-01	AirV 4-750 Flex Mount, 12V	750 m³/h, 441 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	150 mm / 5.91"	103 mm / 4.06"	14,5
80-47421-02	AirV 4-750 Flex Mount, 24V	750 m³/h, 441 cfm	290 x 257 x 150 mm / 11.4 x 10.1 x 5.91"	150 mm / 5.91"	103 mm / 4.06"	8,5
80-47422-02	AirV 4-1000 Flex Mount, 24V	1000 m³/h, 589 cfm	290 x 257x 180 mm / 11.4 x 10.1 x 7.09"	150 mm / 5.91"	103 mm / 4.06"	15,5
66302	3" Inline Blower 12V	158 cfm		3"	3"	3,5
66402	4" Inline Blower 12V	240 cfm		4"	4"	3,5

AquaH – Marine Water Heaters

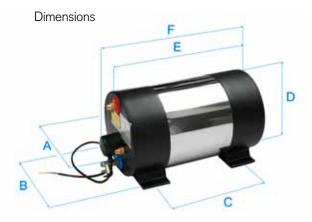
Stainless steel water heaters with dual heating as standard - electrical heating and indirect heating based on an second heat source, for example based on the cooling system from the Marine engine or generator set. AquaH is an innovative series of AISI 316 stainless steel water heaters, with a storage capacity of 22 up to 80 litres (5.3 to 19.3 gal.). The heaters are cased in AISI 304 stainless steel and is provided with a sturdycompact plastic end cover which also includes the mounting brackets.

Electrical heating elements are available in Incoloy at 500 & 1200 Watts allowing hot water production when engine heat is not available but when 230 volts AC is. Delivered with an adjustable safety thermostat for temperature adjustment while on electrical heating.

Order no	Description
56-47455-01	AquaH Marine Water Heater 1200W / 22L/6 gal 220V BSP
56-47455-02	AquaH Marine Water Heater 1200W / 22L/6 gal 120V NPT
56-47455-03	AquaH Marine Water Heater 500W / 22L/6 gal 220V BSP
56-47455-04	AquaH Marine Water Heater 500W / 22L/6 gal 120V NPT
56-47456-01	AquaH Marine Water Heater 1200W / 30L/8 gal 220V BSP
56-47456-02	AquaH Marine Water Heater 1200W / 30L/8 gal 120V NPT
56-47456-03	AquaH Marine Water Heater 500W / 30L/8 gal 220V BSP
56-47456-04	AquaH Marine Water Heater 500W / 30L/8 gal 120V NPT
56-47457-01	AquaH Marine Water Heater 1200W / 45L/11 gal 220V BSP
56-47457-02	AquaH Marine Water Heater 1200W / 45L/11 gal120V NPT
56-47457-03	AquaH Marine Water Heater 500W / 45L/11 gal 220V BSP
56-47457-04	AquaH Marine Water Heater 500W / 45L/11 gal 120V NPT
56-47458-01	AquaH Marine Water Heater 1200W / 60L/15 gal 220V BSP
56-47458-02	AquaH Marine Water Heater 1200W / 60L/15 gal 120V NPT
56-47458-03	AquaH Marine Water Heater 500W / 60L/15 gal 220V BSP
56-47458-04	AquaH Marine Water Heater 500W / 60L/15 gal 120V NPT
56-47459-01	AquaH Marine Water Heater 1200W / 80L/20 gal 220V BSP
56-47459-02	AquaH Marine Water Heater 1200W / 80L/20 gal 120V NPT
56-47459-03	AquaH Marine Water Heater 500W / 80L/20 gal 220V BSP
56-47459-04	AquaH Marine Water Heater 500W / 80L/20 gal 120V NPT



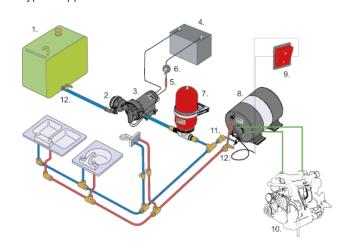
Order No.	Description
56-47464-01	AquaH Thermostat Water Mixer Kit BSP
56-47464-02	AquaH Thermostat Water Mixer Kit NPT



Order no	Electrical supply	Storage capacity	Weight empty	А	В	С	D	E	F
	w	It (gallons)	kg (lbs)	mm	mm	mm	mm	mm	mm
56-47455-01/02	1200	22	10 (22)	322 12.7"	290 11.4"	235 9.25"	325 12.8"	410 16.1"	485 19.1"
56-47455-03/04	500	(5.81)							
56-47456-01/02	1200	30	11,5 (25.4)	322 12.7"	290 11.4"	370 14.6"	325 12.8"	545 21.5"	620 24.4"
56-47456-03/04	500	(7.93)							
56-47457-01/02	1200	45	15 (33.1)	322 12.7"	290 11.4"	625 24.6"	325 12.8"	805 31.7"	880 34.6"
56-47457-03/04	500	(11.9)							
56-47458-01/02	1200	60	17,3 (38.1)	322 12.7"	290 11.4"	810 31.9"	325 12.8"	990 39"	1065 41.9"
56-47458-03/04	500	(15.9)							
56-47459-01/02	1200	80	20 (44.1)	322	290	1090	325	1270	1345
56-47459-03/04	500	(21.1)		12.7"	11.4"	42.9"	12.8"	50"	53"

Electric supply 220-240 V ~ 50 Hz Water connections ½"

Typical Application



- 1. Water tank
- 2. PUMProtector inlet strainer
- 3. Aqua Jet water pressure pump
- 4. Battery
- 5. Fuse
- 6. Switch
- 7. Accumulator tank
- 8. Water heater
- 9. ON/OFF bipolar switch
- 10. Motor
- 11. Check valve
- 12. Shut-off valve

Heating time

1200W

1200W										
	Electrical supply	Storage capacity	Water temperature in °C (°F)							
Order no	w	It (gallons)	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)	55 (131)
56-47455-01/02	1200	22 (5.81)	6	12	19	25	31	38	44	51
56-47456-01/02	1200	30 (7.93)	8	17	26	34	43	52	61	69
56-47457-01/02	1200	45 (11.9)	13	26	39	52	65	78	91	104
56-47458-01/02	1200	60 (15.9)	17	34	52	69	87	104	122	139
56-47459-01/02	1200	80 (21.1)	23	46	69	93	116	139	162	186

Initial temperature 15°C

500W

_500W										
	Electrical supply	Storage capacity	Water temperature in °C (°F)							
Order no	W	It (gallons)	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)	55 (131)
56-47455-03/04	500	22 (5.81)	15	30	46	61	76	92	107	122
56-47456-03/04	500	30 (7.93)	20	41	62	83	104	125	146	167
56-47457-03/04	500	45 (11.9)	31	62	94	125	156	188	219	251
56-47458-03/04	500	60 (15.9)	41	83	125	167	209	251	293	334
56-47459-03/04	500	80 (21.1)	55	111	167	223	279	334	390	446

Initial temperature 15°C





Flexible impeller pumps provide an efficient solution to most raw water pumping needs. The pumps are self-priming and can pass fairly large solids without clogging or damaging the pumps. Designed for a number of applications on board.

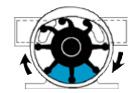


Self-Priming Flexible Impeller Pumps

Operating Principle



A vacuum is created as the flexible impeller vanes straighten upon leaving the cam, drawing liquid into the pump.



The rotating impeller carries liquid from the inlet to the outlet port. As a consequence of their design, flexible impeller pumps can pass fairly large solids.



When the flexible impeller vanes regain contact with the cam, they bend and the liquid is discharged from the pump in a uniform flow. Liquids can be pumped in the opposite direction by reversing the rotation of the pump.

Automatically Controlled Clutch Pumps

With an electro-magnetic clutch you will have pumping power whenever needed, at a push of a button, without being at the pump. Combined with a vacuum switch (recommended for bilge pump application), the clutch will automatically disengage whenever the pump starts priming air, thereby preventing dry running and pump damage. Automatically controlled pumps are available in sizes from 1" to 2.1/2" (20 I/min to 625 I/min), with clutches in 12 or 24 volts. Wearing parts are easily replaceable and service kits are available for all standard models. Vacuum Switch as extra accessory, see page 38.

Technical Specifications, Clutch Pumps

Pump body Bronze

Connection for vacuum switch

Shaft Stainless steel

The shaft is mounted with permanently

lubricated double ball bearings

Seal Mechanical seal Cam Full or reduced Connection BSP or NPTF

Clutch Electro-magnetic 12/24 V DC

Pulley 2xA or 1xB-groove Pulley dia 9178 mm / 7"

Heavy Duty Electro-Magnetic Clutch Pumps





Order No.	Description	Impeller	Connection	Length	Width	Height	Weight
10-24577-98	F7B-50017	09-1028B	1" NPT	156 mm - 6.14"	120 mm - 4.72"	93 mm - 3.66"	5.8 kg -12.7 lbs
10-13022-98	F8B-50017	09-819B	1 1/2" NPT	225 mm - 8.85"	160 mm - 6.29"	124 mm - 4.88"	9.9 kg -22 lbs
10-13022-95	US version 11/4" ports*						
10-13022-96	US version 11/2"	ports**					

Extra Heavy Duty Electro-Magnetic Clutch Pumps



Order No.	Description	Impeller	Connection	Length	Width	Height	Weight
10-24116-98	F7B-5007	09-1028B	1" NPT	226 mm - 8.9"	120 mm - 4.72"	93 mm - 3.66"	6.9 kg – 15 lbs
10-13025-99	F8B-5000 VF	09-819B	1 1/2" NPT	265 mm - 10.43"	152 mm - 5.98"	154 mm – 6"	11.9 kg – 26 lbs
10-13176-99	F8B-5000 TSS	09-819B	11/2" NPT	265 mm - 10.43"	198 mm – 7.79"	151 mm - 5.94"	11.9 kg – 26 lbs
10-13027-98	F9B-5607	09-814B	2" NPT	290 mm - 11.42"	192 mm - 7.56"	157 mm - 6.18"	13.2 kg – 29 lbs
		09-802B					
10-13226-99	F9B-5600 VF	09-814B	2" NPT	290 mm - 11.4"	152 mm - 5.98"	175 mm – 6.88"	13.2 kg – 27 lbs
		09-802B					
10-13178-99	F9B-5600 TSS	09-814B	2" NPT	290 mm - 11.4"	200 mm - 7.87"	151 mm - 5.94"	13.2 kg – 27 lbs
		09-802B					

Extra Heavy Duty, High Flow Electro-Magnetic Clutch Pump

Order No.	Description	Impeller	Connection	Length	Width	Height	Weight
10-13143-98	F95B-5000	09-820B	2½" NPT	358 mm - 14.09"	246/295 mm	226/201 mm	21 kg – 46 lbs
					9.68"/11.61"	8.89"/7.91"	



Flange with 2.1/2" BSP port adaptors (NPTF available on request) The port adaptors can be fitted either vertically or horizontally

Choice of Clutch

Order No.	Description
0.3454.001	Electro-magnetic clutch, 12 V 2xA pulley double groove
0.3454.002	Electro-magnetic clutch, 24 V 2xA pulley double groove
0.3454.003	Electro-magnetic clutch, 12 V 1xB pulley single groove
0.3454.004	Electro-magnetic clutch, 24 V 1xB pulley single groove
0.3454.050	Coil 12V
0.3454.051	Coil 24V



Heavy Duty Impeller Pump

A range of multipurpose bronze pumps. Compact design, raw water resistant pumps at an attractive price – with the renowned SPX Johnson Pump quality. These pumps are designed for a number of applications on board.

With excellent self-priming capability, these pumps are ideal as cooling water pumps for marine engines, bilge pumps, deckwash pumps, fresh water pumps, fuel transfer pumps and other applications. Also ideally suited on shore to empty septic tanks, to flush clean and to fill water tanks. Available in sizes from 3/8" to 1.1/2" (4 I/min to 279 I/min).

Vacuum switch (see page 38) as extra accessory for F8B-8 only.

Technical Specifications, Heavy Duty Impeller Pumps

Pump body Bronze Shaft Stainless steel

The shaft is mounted with permanently lubricated double ball bearings

Seal Mechanical seal
Cam Full or reduced
Connection BSP or NPTF





Heavy Duty Impeller Pumps

Order No.	Description	Impeller	Connection	Length	Width	Height	Weight	Drive Shaft Ø
10-24569-51	F35B-8007	09-808B-1	3/8" NPT	109 mm - 4.29"	80 mm – 3.14"	30 mm - 1.18"	0,5 kg – 1.2 lbs	3/8"
10-24570-51	F4B-8007	09-810B-1	3/8" NPT	111 mm – 4.37"	80 mm - 3.15"	50 mm - 1.97"	0,8 kg – 1.8 lbs	³ / ₈ "
		09-810B-9						
10-24571-51	F5B-8007	09-1027B-1	3/4" NPT	151 mm – 5.95"	106 mm - 4.17"	50 mm - 1.97"	1,6 kg – 3.5 lbs	⁵ / ₈ "
		09-1027B-9						
10-24572-51	F7B-8007	09-1028BT-1	1" NPT	170 mm - 6.69"	120 mm - 4.72"	50 mm - 1.97"	1,9 kg – 4 lbs	5/8"
		09-1028B-9						
10-13021-9	F8B-8007	09-819B	1.1/2" NPT	217 mm - 8.54"	160 mm - 6.3"	65 mm - 2.56"	5,9 kg – 13 lbs	1"
		09-819B-9						
10-13021-95	US version 11/4" ports, 1" shaft keyed							
10-13021-96	US version 11/2"	ports, 1" shaft keyed						

Extra Heavy Duty Impeller Pumps

Whenever you need greater strength or service from a pump, use an extra heavy duty flexible impeller pump with separate bearing housing and mechanical seal for less wear and longer life. These pumps cover the entire range of marine applications and may be used as cooling water pumps, bilge pumps, deckwash pumps, emergency and fire fighting pumps, etc. Available in sizes from 3/4" to 2.1/2" (13 I/min to 625 I/min). Wearing parts are easily replaceable and service kits are available for all standard models.

Vacuum switch as extra accessory, see page 38.

Technical Specifications, Extra Heavy Duty Impeller Pumps

Pump body Bronze. Connection for vacuum switch

Shaft Stainless steel
Seal Mechanical seal
Cam Full or reduced

Pedestal Cast iron with permanently lubricated double ball bearings

Connection BSP or NPTF

Extra Heavy Duty Impeller Pumps









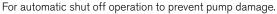
Order No.	Description	Impeller	Connection	Length	Width	Height	Weight	Drive Shaft Ø
10-24210-5	F5B-3007	09-1027B-1	3/4" NPT	195 mm - 7.68"	106 mm - 4.17"	88 mm - 3.46"	2,9 kg – 6.5 lbs	17 mm
		09-1027B-9-00						
10-24209-7	F7B-3007	09-1028BT-1	1" NPT	213 mm - 8.38"	120 mm - 4.72"	93 mm - 3.66"	3,1 kg – 6.9 lbs	17 mm
		09-1028B-9						
10-13024-1	F8B-3000 VF	09-819B-00	1.1/2" NPT	255 mm - 10.04"	152 mm - 5.98"	154 mm - 6.06"	7,6 kg – 16.5 lbs	1"
		09-819B-9						
10-13026-7	F9B-3007	09-802B	2" NPT	282 mm - 11.1"	192 mm - 7.56"	157 mm - 6.18"	9,3 kg – 21 lbs	1"
		09-814B						
10-13175-01	F8B-3000 TSS	09-819B	1.1/2" NPT	255 mm - 10.04"	198 mm – 7.79"	151 mm – 5.94"	7,6 kg – 16.5 lbs	1"
		09-819B-9						
10-13225-01	F9B-3000 VF	09-802B	2" NPT	282 mm - 11.1"	152 mm - 5.98"	175 mm - 6.89"	9,3 kg – 21 lbs	1"
		09-814B						
10-13177-01	F9B-3000 TSS	09-802B	2" NPT	282 mm - 11.1"	200 mm - 7.87"	151 mm – 5.94"	9,3 kg – 21 lbs	1"
		09-814B						

Extra Heavy Duty, High Flow, Impeller Pumps



Order No.	Description	Impeller	Connection	Length	Width	Height	Weight	Drive Shaft Ø
10-13121-04	F95B-3007	09-820B	2.1/2" NPT	354 mm - 13.93"	246/295 mm	226/201 mm	17,2 kg – 38 lbs	24 mm
					9.68"/11.61"	8.89"/7.91"		

Vacuum Switch



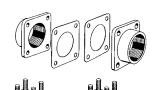


The vacuum switch works with all self-priming impeller pumps and should be used for e.g. bilge pumping/emptying of tanks to prevent the pump from dry running. The vacuum switch automatically shuts the pump off when the bilge/tank is dry. With the switch fitted, you can start the pump by remote push button or manually by depressing lever on the switch.

Order No.	Description
09-45053	Vacuum Switch

Port adaptor kit





Order No.	Description
09-45562	1.1/2" BSP for F8B-3000/5000-VF, F8B-3000/5000-TSS
09-46557-01	2" BSP for F9B-3000/5600-VF and F9B-3000/5600-TSS



F7B-9 Flange Mount

John Deere flange mount PTO drive style cooling pump. Fits RE47016, 4039D and 4045T flange mount engines.

Order No.	Description	Impeller
10-24398-01	F7B-9	09-1028BT-1
10-24389-02	F7B-9	09-1028BT-1



F7B-9 Flange Mount

John Deere, Kohler Flange mount PTO drive style cooling pump. Fits John Deere powertech GBL 6068 TFM75/TFM Engines. Fits Kohler 40E02/33EF02, 65E02/55EF02, 30E02/20EF02, 99E02/80LF02

Order No.	Description	Impeller
10-24753-01	F7B-9	09-1028BT-1



F35B Pedestal Style

Gen set Engine cooling pump - pedestal style. Fits Onan engine and MAJB style engines. Fits universal 1.400000001, engine. Fits Arona, Nanni, Farymann, Fischer Panda and many more.

Order No.	Description	Impeller
10-35038-5	F35B-8027	09-808B-1
10-35038-5E	F35B-8027	09-808B-1



F5B-9 Crankshaft

Crankshaft style cooling pump featured on older style small block GM marine engines. Easy to access impeller design.

Order No.	Description	Impeller
10-24228-1	F5B-9	09-1027B-10



F6B-9 Crankshaft

Crankshaft style cooling pump featured on Indmar, Marine Power, Volvo, PCM engines. 15% more flow. Industry standard.

Order No.	Description	Impeller
10-24805-01	F6B-9	09-812B-1



F7B-9 Crankshaft

John Deere Crankshaft style pump. Featured on John Deere 4039D, 4045T and RE49556 Engines. Mounts to crankshaft pulley.

Order No.	Description	Impeller
10-24428-01	F7B-9	09-1028BT-1

Bronze Impeller Pump Performance Tables

Note! Reduced cam - 30-40% lower capacity Impeller of nitrile - adjust total head approx. 30% down

F358	3			700 rpr	n		900 rpr	n		1400 rp	m		1750 rp	m		2000 rp	m		2500 rp	m
Bar	kPa	ft	kW	l/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	l/min	GPM	kW	l/min	GPM	kW	l/min	GPM
0.3	30	10.1	0.06	5.2	1.4	0.09	6.8	1.8	0.13	11.2	3.0	0.16	14.0	3.7	0.18	16.0	4.2	0.18	20.5	5.4
0.6	60	20.1	0.09	4.6	1.2	0.09	6.2	1.6	0.13	10.6	2.8	0.16	13.7	3.6	0.18	15.8	4.1	0.18	19.6	5.2
1.0	100	33.5	0.09	4.0	1.1	0.09	5.6	1.5	0.18	9.2	2.4	0.18	11.8	3.1	0.18	13.6	3.6	0.18	17.0	4.5

F4B				700 rpn	n		900 rpr	n		1400 rp	m		1750 rp	m		2000 rp	m		2500 rp	m
Bar	kPa	ft	kW	l/min	GPM	kW	l/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	l/min	GPM	kW	I/min	GPM
0.3	30	10.1	0.06	12.0	3.2	0.09	15.0	4.0	0.13	23.0	6.0	0.17	27.0	7.1	0.18	30.5	8.1	0.18	34.5	9.1
0.6	60	20.1	0.09	11.0	2.9	0.09	14.0	3.7	0.13	21.0	5.4	0.17	25.0	6.6	0.18	28.0	7.4	0.18	33.0	8.7
1.0	100	33.5	0.09	9.0	2.4	0.09	11.0	2.9	0.18	18.0	4.8	0.18	22.0	5.8	0.18	25.0	6.6	0.18	29.5	7.8
1.5	150	50.3	0.09	4.5	1.2	0.09	7.0	1.8	0.18	13.5	3.6	0.18	17.0	4.5	0.18	20.0	5.3	0.24	25.0	6.6

F5B				700 rpm	ı		900 rpm	า		1400 rp	m		1750 rpr	m		2000 rp	m
Bar	kPa	ft	kW	l/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	I/min	GPM	kW	l/min	GPM
0.3	30	10.1	0.13	16.0	4.2	0.18	21.0	5.5	0.37	33.0	8.7	0.37	41.0	10.8	0.37	46.0	12.2
0.6	60	20.1	0.13	15.0	4.0	0.18	20.0	5.3	0.37	32.0	8.5	0.37	39.5	10.4	0.37	45.0	11.9
1.0	100	33.5	0.13	14.0	3.7	0.18	19.0	5.0	0.37	30.0	7.9	0.37	37.0	9.8	0.37	42.0	11.1
1.5	150	50.3	0.13	13.0	3.4	0.18	17.0	4.5	0.37	27.0	7.1	0.37	33.5	8.9	0.37	38.0	10.0
2.0	200	67.1	-	-	-	-	-	-	0.37	22.0	5.8	0.37	28.5	7.5	0.37	33.0	8.07

F7B				700 rpm	ı		900 rpn	ı		1400 rpi	m		1750 rpi	m		2000 rp	m
Bar	kPa	ft	kW	I/min	GPM	kW	l/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	l/min	GPM
0.3	30	10.1	0.37	36.0	9.5	0.37	46.0	12.2	0.75	74.0	19.6	0.75	98.0	25.9	0.75	107.0	28.3
0.6	60	20.1	0.37	34.0	9.0	0.37	44.0	11.6	0.75	72.0	19.0	0.75	96.0	25.4	0.75	104.0	27.5
1.0	100	33.5	0.37	29.0	7.7	0.37	40.0	10.6	0.75	67.0	17.7	0.75	87.0	23.0	0.75	98.0	25.9
1.8	180	60.4	0.37	21.0	5.5	0.37	30.0	7.9	0.75	57.0	15.1	0.75	73.0	19.3	0.75	84.0	22.2
2.5	250	83.8	-	-	-	-	-	-	0.75	37.0	9.8	1.1	52.0	13.7	1.1	63.0	16.6

F8B				700 rpm	ı		900 rpm	1		1400 rpr	m		1750 rpr	n		2000 rp	m
Bar	kPa	ft	kW	l/min	GPM	kW	I/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	l/min	GPM
0.3	30	10.1	0.37	87.0	9.5	0.75	114.0	30.1	1.1	188.0	50.0	1.5	241.0	63.7	1.5	279.0	73.7
0.6	60	20.1	0.37	80.0	9.0	0.75	107.0	28.3	1.1	180.0	47.6	1.5	233.0	61.6	1.5	270.0	71.3
1.0	100	33.5	0.37	73.0	7.7	0.75	101.0	26.7	1.1	177.0	46.8	1.5	228.0	60.2	1.5	264.0	69.7
1.8	180	60.4	-	-	-	1.1	70.0	18.5	1.1	148.0	39.1	2.2	203.0	53.6	2.2	242.0	63.4
2.5	250	83.8	-	-	-	-	-	-	1.1	108.0	28.5	2.2	166.0	43.9	2.2	208.0	55.0

F9B-5	5000			700 rpm			900 rpm	ı		1400 rpr	n		1750 rpr	n		2000 rp	m
Bar	kPa	ft	kW	I/min	GPM	kW	I/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	I/min	GPM
0.3	30	10.1	0.75	129.0	34.1	0.75	170.0	44.9	1.5	268.0	70.8	1.5	331.0	87.5	2.2	388.8	102.7
0.6	60	20.1	0.75	124.0	32.8	0.75	161.0	42.5	1.5	260.0	68.9	2.2	323.0	85.3	2.2	383.1	101.2
1.0	100	33.5	0.75	118.8	31.4	1.1	156.0	41.2	1.5	255.6	67.5	2.2	315.2	83.3	3.0	379.2	100.2
1.8	180	60.4	1.1	105.0	27.7	1.1	140.0	37.0	1.5	235.0	62.1	2.2	286.1	75.6	3.0	351.3	92.8
2.5	250	83.8	1.1	83.7	22.1	1.5	102.0	26.9	2.2	208.0	55.2	3.0	266.0	70.3	3.0	304.1	80.3

F9B-5	600			700 rpm			900 rpm	1		1400 rpr	m		1750 rpr	n		2000 rp	m
Bar	kPa	ft	kW	l/min	GPM	kW	l/min	GPM	kW	l/min	GPM	kW	l/min	GPM	kW	l/min	GPM
0.3	30	10.1	0.75	129.0	34.1	1.1	170.0	44.9	1.5	270.0	71.3	1.5	331.0	87.5	2.2	376.0	99.3
0.6	60	20.1	0.75	126.0	32.8	1.1	165.0	43.6	1.5	266.0	70.3	2.2	323.0	85.3	2.2	368.0	97.2
1.0	100	33.5	0.75	123.0	32.5	1.1	161.1	42.6	2.2	260.0	68.7	2.2	314.0	83.3	3.0	361.0	95.4
1.8	180	60.4	0.75	110.0	29.1	1.5	153.0	40.4	2.2	242.0	63.9	2.2	291.0	76.9	3.0	340.0	89.8
2.5	250	83.8	1.1	90.0	23.8	1.5	130.0	34.3	2.2	218.0	57.6	3.0	269.0	71.1	3.0	312.0	82.4
3.0	300	100.6	1.5	61.0	16.1	2.2	102.0	26.9	3.0	190.0	50.2	3.0	242.0	63.9	3.5	284.0	75.0
3.5	350	117.4	-	-	-	-	-	-	3.0	160.0	42.3	3.5	205.0	54.2	3.5	235.0	62.1

F95B				700 rpm			900 rpm	1		1400 rpr	n		1750 rpr	n		2500 rp	m
Bar	kPa	ft	kW	I/min	GPM	kW	l/min	GPM	kW	l/min	GPM	kW	I/min	GPM	kW	l/min	GPM
0.5	50	16.8	0.75	182.6	48.2	1.1	236.5	62.5	1.5	384.2	101.5	2.2	483.6	127.8	4.0	626.7	165.5
1.0	100	33.5	1.1	172.7	45.6	1.1	231.3	61.1	1.5	372.0	98.3	3.0	472.9	124.9	5.5	617.9	163.2
1.5	150	50.3	1.1	160.1	42.3	1.5	214.5	56.7	2.2	350.4	92.6	3.0	444.1	117.3	5.5	583.8	154.2
2.0	200	67.1	1.1	132.3	35.0	1.5	181.0	47.8	3.0	315.4	83.3	3.5	406.2	107.3	5.5	553.1	146.1
2.5	250	83.8	1.5	79.5	21.0	2.2	137.8	36.4	3.0	267.6	70.7	4.0	361.3	95.5	7.5	506.4	133.8

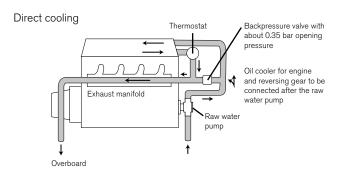
Engine Cooling - Raw Water Handling

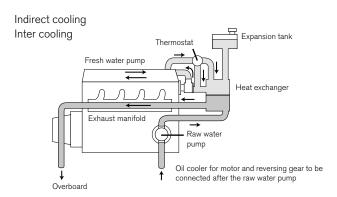
Flexible impeller pumps, F-series, provide an efficient solution to most raw water pumping needs. The primary advantage of a flexible impeller pump is its self-priming ability. As the vanes of the impeller are depressed and rebound, they create their way vacuum drawing fluid into the pump. A dry pump can lift water up to as much as 3 meters. Thus a flexible impeller pump being used for engine cooling needs not be located below the water line or manually primed. An added feature of flexible impeller pumps is that they can pass fairly large solids without clogging or damaging the pump. This reduces the need for filtering the incoming fluid.

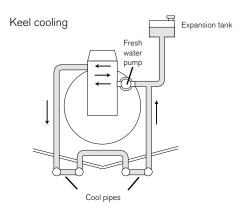
For general raw or fresh water applications, the standard long lasting neoprene rubber impeller is used.

A general feature of all flexible impeller pumps is that they cannot be permitted to run dry for more than 30 seconds. Both the impeller and the seals depend upon the water for lubrication and will soon burn out if run dry. Wearing parts are easily replaceable, and service kits are available for all standard models.

Different types of cooling systems

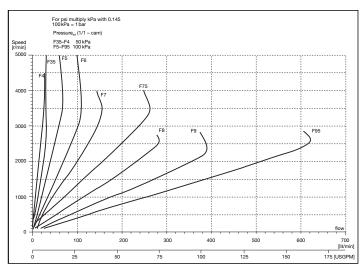






Capacity Range

(based on water at 20°C/68°F)



Fresh Water Handling

For circulation of the internal, closed, fresh water circuit of the cooling system SPX Johnson Pump Marine can offer a number of alternatives in its DC driven CM- and CO-series (see page 21 for further information). It is also common to use a flexible impeller pump for this purpose if it is located on the cold side of the system (max. 55°C).

Other types of belt-driven centrifugal pumps may also be useful. The closed circuit normally transfers heat from the engine to the heat exchanger. The liquid is water and anti-freeze.

Cooling Capacity

The required output of the cooling pump – raw water as well as fresh water handling – is related to

- engine size and type (gasoline or diesel)
- type of cooling system (size of heat exchanger)
- water cooled engine oil, reverse gear, exhaust system Contact your local dealer for more information, or for indirect cooling systems your supplier of heat exchangers.

Pump Mounting

Engine cooling pumps, the F-series, are available in several different styles and sizes to satisfy different cooling system needs. Flanged pumps which mount directly to the engine and crank shaft pulley mounted pumps are available for a wide variety of engines. SPX Johnson Pump Marine is one of the original equipment pump supplier to the largest manufacturers world-wide of inboard engines. Both flange mounted and pulley driven pedestal pumps can be used to provide cooling with a maximum of ease and flexibility. Pump ports are available in sizes from 3/8" to 2.½".

Flange Mounted Pumps

Flanged pumps are normal pumps produced in high volumes, customer designed for flange-mounting at a power take off of the engine. Different types of drives can be used but mainly gears or any type of driving members are used.

Crank Shaft Pulley Mounted

These pumps are designed for direct installation on the engine crank shaft pulley. Max. revs. 5.000 per minute. To prevent the pump from rotating, a torque bracket from the fastening point on the pump body to a suitable point on the engine has to be used.

Pedestal Mounted Pumps

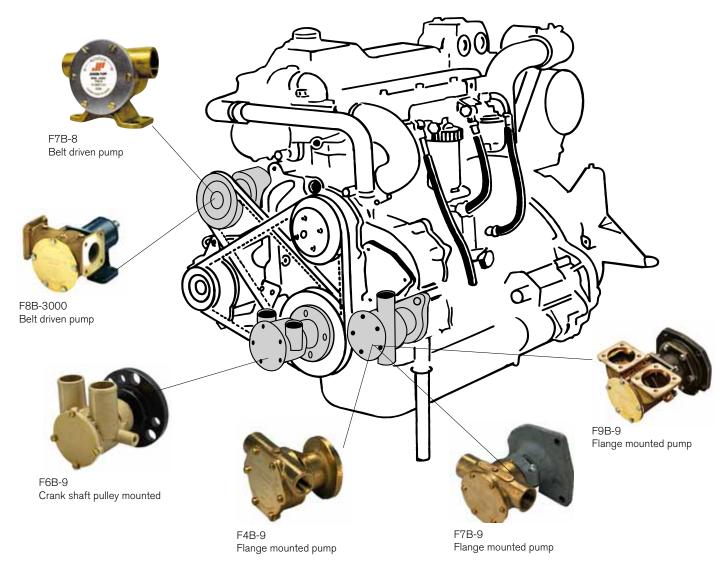
Pulley driven pedestal mounted pumps are used when a free driving pulley is available on the engine. Two different types of pedestal mounted pumps are supplied:

FB-8

A range of bronze pumps in compact design. Ideal as cooling water pumps in marine engines. Available in sizes from 3/8" to 1.½", all with permanently lubricated double ball bearings and mechanical seal.

FB-3000

A range of extra heavy duty pedestal mounted pumps excellent for cooling purpose in commercial vessels. The design means separate bearing housings with permanently lubricated double ball bearings, mechanical shaft seal for extended service life. Wetted parts as wear plate, cam and endcover are easily replaceable.





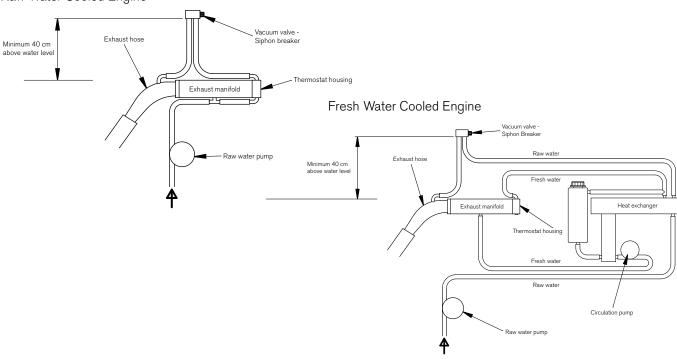
Vacuum valve - Siphon breaker

A vacuum valve is a cheap insurance against water intrusion in a engine with expensive repairs as a consequence. The maximum ambient temperature should not exceed 60 °C. The valve opens at a pressure which is equivalent to 3-5 cm Water Column The materials which are used are resistant to sea water and fresh water, and to glycol compounds in appropriate concentrations. Avoid exposing the valve to oil and grease. If it has been in contact with such substances, please clean or replace it.

Order No.	Description
09-47316-01	Siphon Breaker, Spud Size 12 mm
09-47316-02	Siphon Breaker, Spud Size 16 mm
09-47316-03	Siphon Breaker, Spud Size 19 mm
09-47316-04	Siphon Breaker, Spud Size 22 mm
09-47316-05	Siphon Breaker, Spud Size 25 mm
09-47316-06	Service Kit

- Non corrosive
- Easy to install
- Does not leak
- High quality plastic
- 5 spud sizes





Take good care of the cooling system – change to a new impeller every year!

The impeller is a very important security device. Its task is to pump the water through the cooling system of the engine. But remember that the impeller should be replaced every year. And always make sure you get a SPX Johnson Pump original impeller. Then you'll know that it matches your pump exactly.

Remove the impeller with a slip joint plier or an Impuller.



Order No.	Description
09-47165-01	Puller for 09-1028BT
09-47163-01	Puller for 09-821BT
09-36166-01	Puller for 09-820B

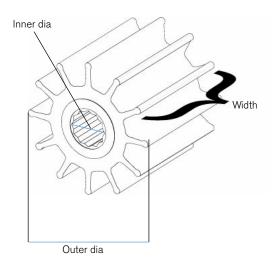


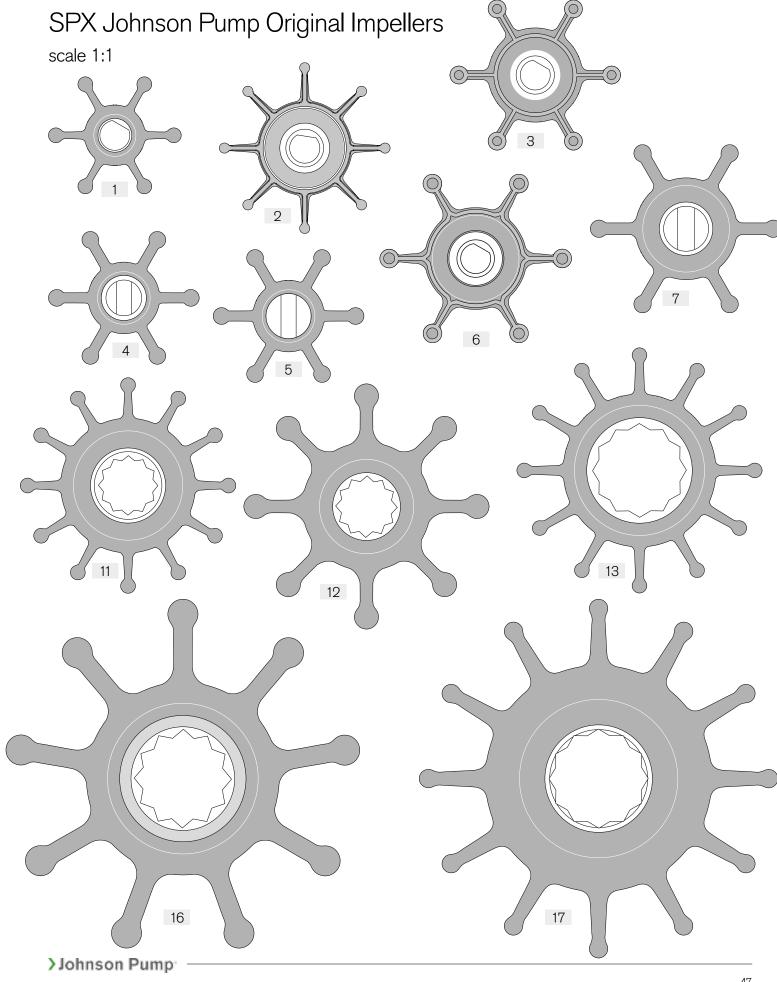
Order No.	Description
09-950-930	JP Impuller

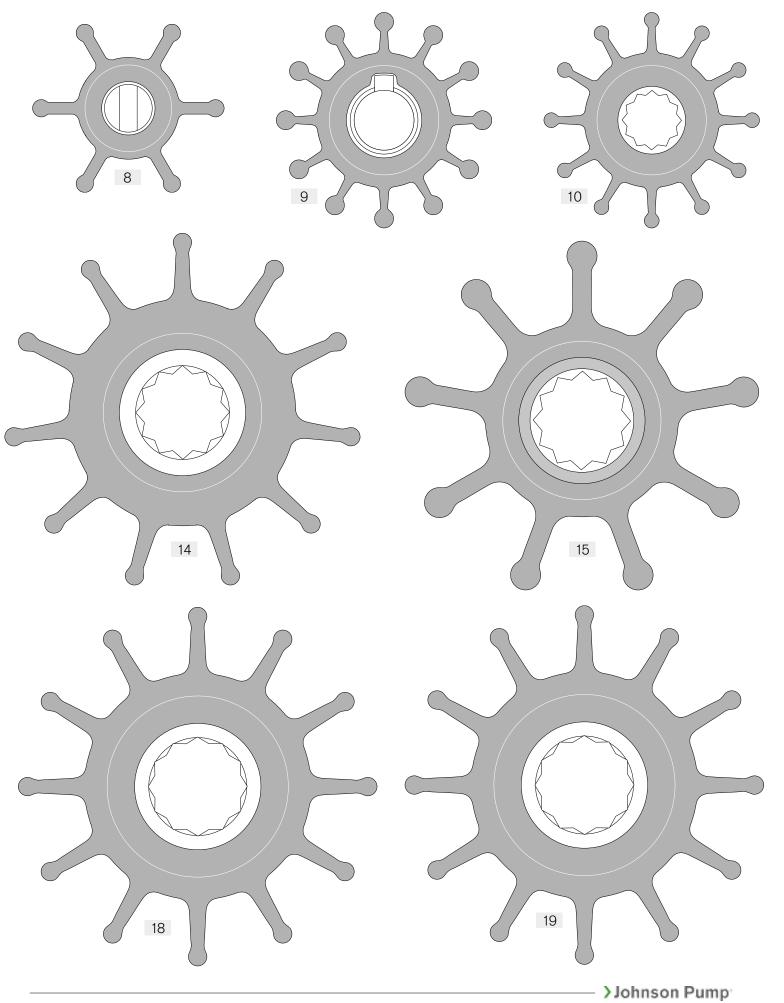


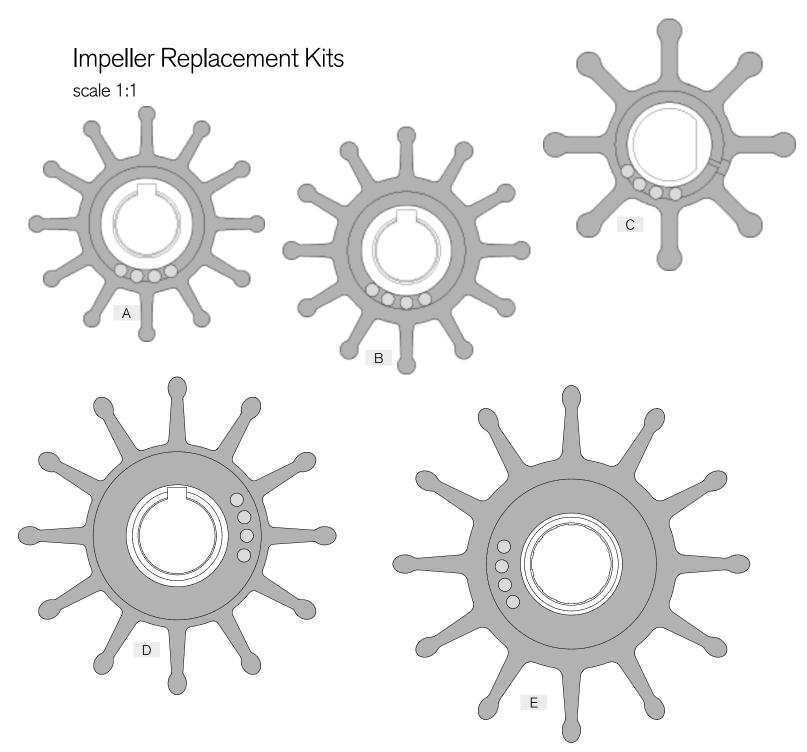
SPX Johnson Pump Original Impellers

14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0003 17935-0003 15 F8 09-1029B¹¹) Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001	Ref.	Pump	Impeller	Material*	Out	er dia	In	ner dia	\	Vidth	Replaces	Jabsco No
2 F3 09-843S-9 Nitrile 452 1.78 8.0 / Flat 0.31 / Flat 12.8 0.50 3 TA3P10 09-1052S-9 Nitrile 45.2 1.78 8.0 / Flat 0.31 / Flat 12.8 0.50 4 F35 09-808B-1 MC97 40.0 1.58 12.0 0.47 19.0 0.75 22405-0001 6 F4 09-824P-1 MC97 50.8 2.00 8.0 / Flat 0.31 / Flat 22.0 0.87 6303-001 6 F4 09-824P-9 Nitrile 50.8 2.00 8.0 / Flat 0.31 / Flat 22.0 0.87 6303-003 7 F4 09-810B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 7 F4 09-9102B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 673-0001 8 F4 09-1026B-1 MC97 50.8 2.00 12.7					mm	inch	mm	inch	mm	inch	Europe	USA
3 TA3P10 09-1052S-9 Nitrile 45.2 1.78 8.0 / Flat 0.31 / Flat 12.8 0.50	1	F2	09-1077B-9	Nitrile	35.2	1.29	8.0 / Flat	0.31 / Flat 12.7 0.50				
4 F35 09-806B-1 MC97 40.0 1.58 9.5 0.37 19.0 0.75 4528-0001 5 F35 09-808B-1 MC97 40.0 1.58 12.0 0.47 19.0 0.75 22405-0001 6 F4 09-824P-1 MC97 50.8 2.00 80.7 Flat 0.31 / Flat 22.0 0.87 6303-001 6 F4 09-824P-9 Nitrile 50.8 2.00 80.7 Flat 0.31 / Flat 22.0 0.87 6303-003 7 F4 09-810B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 7 F4 09-810B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 8 F4 09-1026B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 673-0001 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 10 F5 09-1027B-1 MC97 57.1 2.25 Splines 31.5 1.24 4568-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-0 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 11 F6 09-812B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 12 F7 09-1027B-10 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 12 F7 09-1028B-9 Nitrile 65.0 2.56 Splines 31.5 1.24 1210-0001 12 F7 09-1028B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 12 F7 09-1028B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0003 13 F75 09-802B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 12 F7 09-1028B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0003 14 F8 09-819B-0 Ntrile 65 2.56 Splines 50.2 1.98 17937-0003 14 F8 09-819B-0 Ntrile 65 2.56 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-0 Ntrile 65 2.56 Splines 63 2.48 836-0001 17935-0001 15 F8 09-819B-0 Ntrile 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17935-0001 17 F9 09-812B Neoprene 95 3.74 Splines 180 7.09 **BT-1 replaces B A 09-701B-1 MC97 62,3 2.45 Splines 180 7.09 **BT-1 replaces B	2	F3	09-843S-9	Nitrile	45.2	1.78	8.0 / Flat	0.31 / Flat	12.8	0.50		
5 F35 09-808B-1 MC97 40.0 1.58 12.0 0.47 19.0 0.75 22405-0001 6 F4 09-824P-1 MC97 50.8 2.00 8.0 / Flat 0.31 / Flat 22.0 0.87 6303-001 7 F4 09-810B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 7 F4 09-810B-9 Nitrile 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 7 F4 09-810B-9 Nitrile 50.8 2.00 12.0 0.47 22.0 0.87 673-0001 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0003 9 F5 09-801B Neoprene 57.1 2.25 159 Key 0.63 / key 31.5 1.24 1210-0001 10 F5 09-1027B-1 MC97 57.1 2.25	3	TA3P10	09-1052S-9	Nitrile	45.2	1.78	8.0 / Flat	0.31 / Flat	12.8	0.50		
6 F4 09-824P-1 MC97 50.8 2.00 8.0 / Flat 0.31 / Flat 22.0 0.87 6303-001 6 F4 09-824P-9 Nitrile 50.8 2.00 8.0 / Flat 0.31 / Flat 22.0 0.87 6303-0003 7 F4 09-810B-9 Nitrile 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 7 F4 09-810B-9 Nitrile 50.8 2.00 12.0 0.47 22.0 0.87 8 F4 09-1026B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 10 F5 09-1027B-1 MC97 57.1 2.25 Splines 31.5 1.24 4568-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-0 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0001 11 F6 09-1027B-0 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-1027B-0 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-812B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0003 12 F7 09-1028B-1 MC97 65 2.56 Splines 50.2 1.98 17937-0001 12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-0001 13 F75 09-821BT-1* MC97 65 2.56 Splines 60 3.15 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0001 17935-0001 15 F8 09-1029B¹ Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001 17 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17935-0001 18 F95 09-802B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17935-0001 19 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17935-0001 19 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17936-0001 19 F9 09-802B Neoprene 95 3.74 Splines 180 7.09 **MC97 and Neoprene- for cooling, Nitrile - oil resistant **BT-1 replaces B	4	F35	09-806B-1	MC97	40.0	1.58	9.5	0.37	19.0	0.75	4528-0001	
F4	5	F35	09-808B-1	MC97	40.0	1.58	12.0	0.47	19.0	0.75	22405-0001	
7 F4 09-810B-1 MC97 50.8 2.00 12.0 0.47 22.0 0.87 18653-001 7 F4 09-810B-9 Nitrile 50.8 2.00 12.0 0.47 22.0 0.87 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 9 F5 09-801B Neoprene 57.1 2.25 15.9 Key 0.63 / Key 31.5 1.24 4568-0001 10 F5 09-1027B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-1028-9 Nitrile 67.1 2.25 Splines 30.2 1.98 17937-00	6	F4	09-824P-1	MC97	50.8	2.00	8.0 / Flat	0.31 / Flat	22.0	0.87	630	3-001
7 F4 09-810B-9 Nitrile 50.8 2.00 12.0 0.47 22.0 0.87 8 F4 09-1026B-1 MC97 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 9 F5 09-801B Neoprene 57.1 2.25 15.9 Key 0.63 / Key 31.5 1.24 4568-0001 10 F5 09-1027B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-1028B-1-1** MC97 65 2.56 Splines 50.2 1.98 179	6	F4	09-824P-9	Nitrile	50.8	2.00	8.0 / Flat	0.31 / Flat	22.0	0.87	6303	-0003
8 F4 09-1026B-1 MC97 50.8 2.00 12.7 0.50 22.0 0.87 673-0001 8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0003 9 F5 09-801B Neoprene 57.1 2.25 15.9 Key 0.63 / Key 31.5 1.24 4568-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-1812B-1 MC97 57.1 2.25 Splines 30.2 1.98 17937-001 12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 <	7	F4	09-810B-1	MC97	50.8	2.00	12.0	0.47	22.0	0.87	1865	3-001
8 F4 09-1026B-9 Nitrile 50.8 2.00 12.7 0.50 22.0 0.87 673-0003 9 F5 09-801B Neoprene 57.1 2.25 15.9 Key 0.63 / Key 31.5 1.24 4568-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-9.00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-812B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-812B-1 MC97 57.1 2.25 Splines 48.2 1.90 13554-0001 12 F7 09-1028B7-1** MC97 65 2.56 Splines 50.2 1.98 17937-0001 12 F7 09-1028B9-9 Nitrile 65 2.56 Splines 80.2 1.98 17937-0003	7	F4	09-810B-9	Nitrile	50.8	2.00	12.0	0.47	22.0	0.87		
9 F5 09-801B Neoprene 57.1 2.25 15.9 Key 0.63 / Key 31.5 1.24 4568-0001 10 F5 09-1027B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.85 1.24 10 F5 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.85 1.24 11 F6 09-812B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-812B-1 MC97 57.1 2.25 Splines 48.2 1.90 13554-0001 12 F7 09-1028B-1** MC97 65 2.56 Splines 50.2 1.98 17937-0001 12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-0001 13 F75 09-821B-1** MC97 65 2.56 Splines 80 3.15 14 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-0 Nitrile 95 3.74 Splines 63 2.48 836-0001 17935-0001 15 F8 09-1029B¹¹ Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 17 F9 09-814B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001 18 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 10 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 11 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 12 F7 Splines 130 5.12 13 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 14 F9 09-814B Neoprene 95 3.74 Splines 130 5.12 15 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 17 F9 09-814B Neoprene 95 3.74 Splines 130 5.12 18 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-820B Neoprene 95 3.74 Splines 130 5.12 10 O9-703B-1 MC97 65,4 2,57 41,4 1,63 18948-0001 11 O9-704B-1 MC97 65,5 2,63 51 2,01 17954-0001 12 F7 09-704B-1 MC97 66,7 2,63 51 2,01 17954-0001	8	F4	09-1026B-1	MC97	50.8	2.00	12.7	0.50	22.0	0.87	673-	-0001
10 F5 09-1027B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0001 10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.85 1.24 110 F5 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.85 1.24 110 F6 09-812B-1 MC97 57.1 2.25 Splines 31.5 1.24 1210-0003 111 F6 09-812B-1 MC97 57.1 2.25 Splines 48.2 1.90 13554-0001 112 F7 09-1028BT-1** MC97 65 2.56 Splines 50.2 1.98 17937-0001 112 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-0003 113 F75 09-821BT-1** MC97 65 2.56 Splines 80 3.15 114 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 114 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0001 17935-0001 115 F8 09-1029B¹¹ Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 116 F9 09-802B Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 117 F9 09-814B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 118 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-80B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-80B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-80B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-80B Neoprene 95 3.74 Splines 130 5.12 119 F98 09-80B Neoprene 95 3.74 Splines 130 5.12	8	F4	09-1026B-9	Nitrile	50.8	2.00	12.7	0.50	22.0	0.87	673-	-0003
10 F5 09-1027B-10 MC97 57.1 2.25 Splines 31.85 1.24	9	F5	09-801B	Neoprene	57.1	2.25	15.9 Key	0.63 / Key	31.5	1.24	4568	3-0001
10 F5 09-1027B-9-00 Nitrile 57.1 2.25 Splines 31.5 1.24 1210-0003 11 F6 09-812B-1 MC97 57.1 2.25 Splines 48.2 1.90 13554-0001 12 F7 09-1028BT-1** MC97 65 2.56 Splines 50.2 1.98 17937-0001 12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-0003 13 F75 09-821BT-1** MC97 65 2.56 Splines 80 3.15 14 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0003 17935-0003 15 F8 09-1029B¹) Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 17 F9 09-814B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001 18 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17936-0001 18 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 180 7.09 * MC97 and Neoprene - for cooling, Nitrile - oil resistant 19 Alternative impeller 09-819B * * BT-1 replaces B Splines 141,4 1.63 18948-0001 C 09-703B-1 MC97 66,7 2,63 51 2,01 17954-0001 D 09-704BT-1 MC97 84,1 3,31 73,4 2,89 18958-0001	10	F5	09-1027B-1	MC97	57.1	2.25	Spl	ines	31.5	1.24	1210-0001	
11 F6 09-812B-1 MC97 57.1 2.25 Splines 48.2 1.90 13554-0001 12 F7 09-1028B7-1** MC97 65 2.56 Splines 50.2 1.98 17937-0001 12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-0003 13 F75 09-821BT-1** MC97 65 2.56 Splines 80 3.15 14 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0001 17935-0003 15 F8 09-1029B³ Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0003 16 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001	10	F5	09-1027B-10	MC97	57.1	2.25	Splines		31.85	1.24		
12 F7 09-1028BT-1** MC97 65 2.56 Splines 50.2 1.98 17937-0001 12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-0003 13 F75 09-821BT-1** MC97 65 2.56 Splines 80 3.15 14 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0003 17935-0003 15 F8 09-1029B¹¹) Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0003 16 F9 09-802B Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 17 F9 09-814B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001 18 F95 09-820B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17936-0001 18 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 180 7.09 *MC97 and Neoprene - for cooling, Nitrile - oil resistant **BT-1 replaces B A 09-701B-1 MC97 62,3 2,45 31,8 1,25 18838-0001 B 09-702B-1 MC97 65,4 2,57 41,4 1,63 18948-0001 C 09-703B-1 MC97 66,7 2,63 51 2,01 17954-0001 D 09-704BT-1 MC97 84,1 3,31 73,4 2,89 18958-0001	10	F5	09-1027B-9-00	Nitrile	57.1	2.25	Splines		31.5	1.24	1210-0003	
12 F7 09-1028B-9 Nitrile 65 2.56 Splines 50.2 1.98 17937-003 13 F75 09-821BT-1** MC97 65 2.56 Splines 80 3.15 14 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0003 17935-0003 15 F8 09-1029B¹) Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 6760-001 17 F9 09-814B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17936-0001 18 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines	11	F6	09-812B-1	MC97	57.1	2.25	Splines		48.2	1.90	13554-0001	
13 F75 09-821BT-1** MC97 65 2.56 Splines 80 3.15 14 F8 09-819B-00 Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 14 F8 09-819B-9 Nitrile 95 3.74 Splines 63 2.48 836-0003 17935-0001 15 F8 09-1029B*) Neoprene 95 3.74 Splines 63 2.48 836-0001 17935-0001 16 F9 09-802B Neoprene 95 3.74 Splines 88.5 3.48 6760-0001 17 F9 09-814B Neoprene 95 3.74 Splines 88.5 3.48 21676-0001 17936-0001 18 F95 09-820B Neoprene 95 3.74 Splines 130 5.12 19 F98 09-842B Neoprene 95 3.74 Splines 180 7.09												









Impeller Replacement Kits

Ref.	SPX Johnson Pump part no.	Sherwood part no.	Mercruiser part no.	Jabsco part no.	Engines / Pumps
А	09-701B-1	9959K	-	18838-0001	Chris Craft; Chrysler Marine; Commander; Crusader; Glastron Boat Co.; Gray Marine; Interceptor; Onan; OMC; Pathfinder VolksWagon Eng.; Perkins Eng. U.S.; Plesurecraft Marine; Universal Medalist; Volvo Penta; Yamaha; Westerbeke 24102; Sherwood 11353; Pleasure Craft 302&351; Chris Craft 350; Onan MDL3,4
В	09-702B-1	10615K	-	18948-0001	Chris Craft; Chrysler Marine; Commander; Crusader; Escort (Skiltec); Gray Marine; Isuzu; Lenco; Marine Power; North American Engine; Onan; Osco Motors; OMC; Perkins Engine U.S.; Plesurecraft Marine; Volvo Penta; J.H. Westerbeke Corp; Crusader 97179; Chrysler 3675763; Chrysler 4142878; Cummins 4B; Onan MDL6; Chris Craft 454; Pleasure Craft 454
С	09-703B-1	-	47-59362T	17954-0001	Pump Quicksilver Model 46-72774 A32
D	09-704BT-1	17000K	-	18958-0001	Cummins 6B 300Hp B Series; Cummins C Series; CAT 3208; CAT 3116; CAT 3126; Deere 6076; Sherwood Pump P17 series
Е	09-705BT-1	18000K	-	-	Sherwood Pump P18 Series
F	09-1028BT-1	18200K		17933-0001	

Tech Tools



Smart Battery Charger

The 3176 utilizes a 5-stage automatic 5 amp charging system to quickly and efficiently charge a 12V battery while also extending its life. The automatic power switch feature will give the technician complete confidence that they are not damaging the battery by automatically switching to float mode once the battery is completely charged. This switching technology also helps to restore batteries that are slightly sulfated.

Order No.	Description
3176	Smart Battery Charger



Battery Load Testers

Applying a powerful 130 amp load, this heavy-duty battery tester delivers more accurate results than conventional 100 amp testers. Use it to determine a battery's state of charge as well as cranking and charging volts. With full 100-amp load-testing capacity, this reliable and highly accurate tester works on both 6- and 12-volt batteries. The unit performs both a voltage test and 15-second battery-load testing. Results are displayed on a color-coded 0-16 volt scale.

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Order No.	Description
CP7614	130 AMP Battery Load Tester
CP7612	100 AMP Battery Load Tester



Battery Alternator Tester

This versatile charging system (battery and alternator) tester requires no internal battery of its own and is compact for maximum convenience.

Order No.	Description
CP7611	Battery Alternator Tester



Mini Circuit Tester

This compact, ergonomically designed coil cord circuit tester helps to quickly locate hot circuits. The cord is constructed from high quaity, high visibility polyurethane for superior memory retention and resistance to oil and grease and is ideal for benchtop work and in smalareas.

Order No.	Description
CP7841	Mini Circuit Tester



AC/DC Circuit Tester

Tests spark plug wires, 12V car/truck batteries, 4-13V variable DC voltage, household 110/220 AC, DC wire/circuit.

Order No.	Description
CP7847	AC-DC Circuit Tester



IR Thermometer

Infrared thermometers do everything from verifying the temperature in your AC system in the car or home to helping electricians to find an overcharge in electrical systems. Recent advances in optics make this technology more accurate and cost-effective.

Order No.	Description
CP7876	IR Thermometer Pro

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