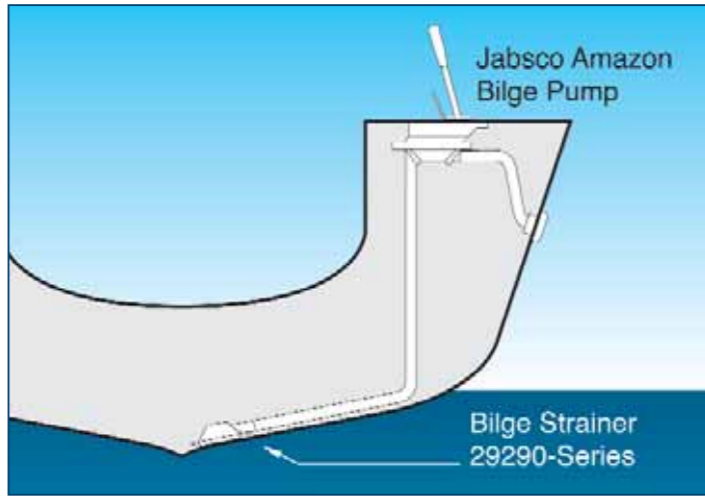
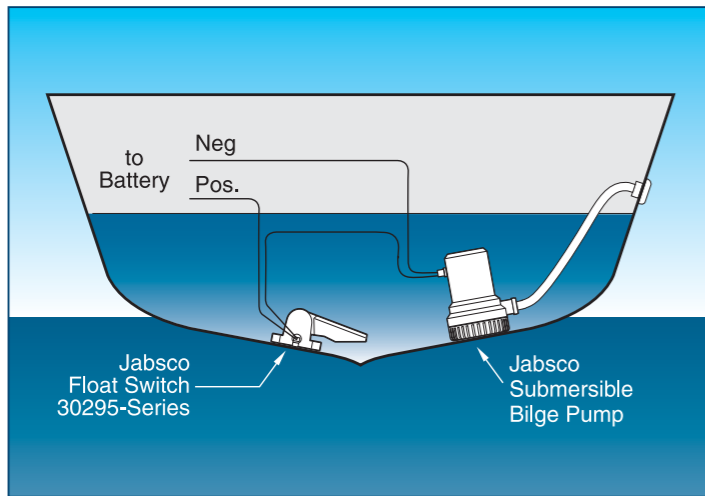


## Introduction



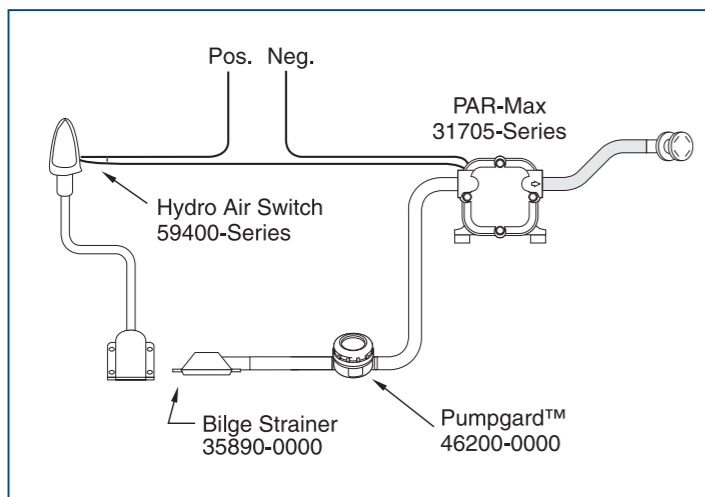
### Manual Diaphragm Pumps

These are the traditional mainstay of small craft bilge pumping systems and can offer surprisingly good flow rates, as well as a variety of installation options. Yacht racing rules state that at least one pump must be capable of being pumped from the cockpit with all hatches shut. The best way to accomplish this is with a through deck kit which allows the pump to be installed safely below decks while the operator pumps from above. A well designed manual bilge pump is very hard to block due to its large bore hose and valves and one piece diaphragm. The larger pumps in Jabsco's line of manual bilge pumps are also suitable for ballast and waste transfer.



### Electric Submersible Pumps

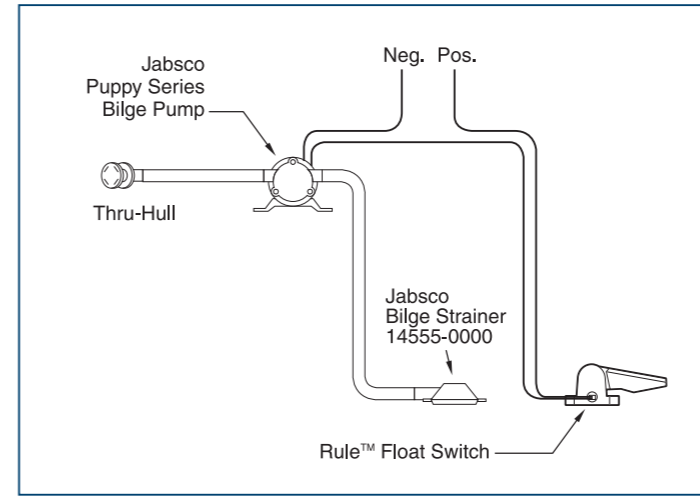
Now by far the most popular type of electric Bilge Pumps, submersibles give very high outputs, are cost effective, have low amp draw and are easy to install. They are designed to fit in the lowest part of the bilge and only require discharge pipe work and electricity supply. However, flow rates decrease more rapidly than other types of pumps as the discharge head increases, so check our recommended maximum discharge heads and if in doubt, always increase the size of the pump. Although our submersibles can be run dry for up to 2 hours, pump life can be extended by avoiding dry running whenever possible. All submersibles can be operated using a float or hydro-air switch, and remotely controlled outside the bilge compartment by using a Jabsco switch panel.



### Electric Diaphragm Pumps

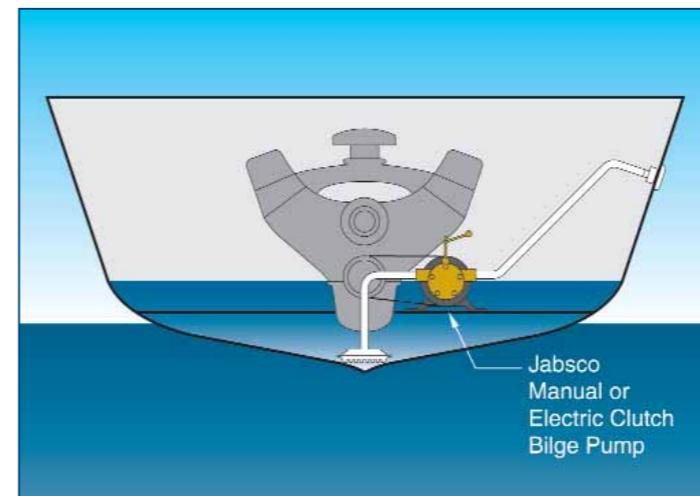
These pumps are excellent for shallow bilge boats where the water left behind by other types of pumps will slop from side to side. With the small size of inlet plumbing they are very effective as bilge pumps, removing all but the last drops of water. Diaphragm pumps can be run dry which removes the need to watch overboard outlets while the pump is running. The ability to self-prime means they can be mounted in an easily accessible high and dry location to simplify installation and improve serviceability. Most models in the line are supplied complete with a Pumpgard™ strainer to protect the pumps from bilge debris.

## Introduction



### Electric Flexible Impeller Pumps

Flexible Impeller pumps make excellent bilge pumps, principally because of their ability to handle bilge debris without damage. Because of the robust design many owners still use our 12 volt DC or 24 volt DC flexible impeller motor pump units that are up to 25 years old! Flexible Impeller Pumps also give the benefits of good flow, low cost, low size and weight, and are easily serviced and maintained. Most Flexible Impeller pumps must not be run dry, as this will damage the impeller which will require replacing. However, the Utility Puppy 2000 and 3000 both allow a maximum of ten minutes dry running after initial prime. Flexible impeller pumps can be operated using a float or Hydro Air switch, and remotely controlled from outside the bilge compartment. There is a wide range of flexible impeller pumps to choose from giving a range of flows, discharge heads, and self-priming options for a wide variety of applications such as ballast transfer, bait tank circulation, and deck wash duties.



### Engine Driven Flexible Impeller Pumps

Jabsco engine driven pumps are probably the strongest and most reliable pumps produced today. Combined with other benefits such as self-priming and very high flow rates, these pumps are now the firm favorites of commercial and professional mariners world wide. All the pumps are easily maintained and can fulfill a variety of duties on board both modern and classic vessels. Jabsco engine driven pumps come in a very wide range of performances and sizes and can be direct driven by either a clutch, pulley, hydraulic drive, or close coupled to a suitable power take off on the engine. These pumps are suitable for applications such as:

- High flow, heavy duty bilge pumps.
- Emergency on board bilge pumps.
- Fire fighting pumps.
- Engine cooling.
- Water ballast transfer.
- Circulation duties.

Of course each application requires different features from each pump and drive type. Either manual or electromagnetic flexible impeller clutch pumps are ideal for bilge pumping. Each type of clutch has different benefits from the other. Manual clutches will operate as long as the engines are still running which provides added security when operating as an emergency bilge pump. Electromagnetic clutches can be operated remotely via float or Hydro Air switches, while fitting a vacuum switch eliminates all risk of dry running damage. However, electromagnetic clutches will only engage as long as electrical power remains available.



### WARNING

No pump manufactured by Jabsco should be used for gasoline, petroleum products or any fluid with a flash point below 100°F (38C).

## Introduction

### Introduction to Rule Bilge Pumps

Rule Submersible Bilge Pumps have set the standard for the industry for decades. They are the first choice of yachtsmen and commercial fishermen throughout the world. More innovations in Bilge Pump design have come from Rule Industries than any other manufacturer and we are proud to offer the broadest range of bilge pumps in the world.

- Exclusive moisture tight seals.
- Anti-Airlock protection
- Compact, efficient, long life motors
- No burn-out when run dry
- Easy clean snap-lock strainer bases
- Stainless steel shafts
- Completely submersible
- Marine grade blocked wiring
- Rust and corrosion protection
- Silent and vibrationless operation
- CE and ISO 8849 certification
- Ignition protection



## Introduction



### Fully Automated Bilge Pumps

**No Float Switch Required. The NEW eco-friendly Rule Mate series of Bilge pumps feature a solid state water sensing technology that eliminates the need for a separate float switch.**

When water enters the bilge and reaches a certain height (2 1/4 inches, 70mm), a sensor turns the pump on. After the water is pumped out, another sensor shuts the pump off. The sensor's unique "field effect" technology is eco-friendly because they only sense the dielectric constant of water. In the event of an onboard oil spill, straight motor oil that enters the bilge will not turn the pump on. The result is the most technically advanced and eco-friendly bilge pump available in the marketplace. It's part of Rule's continuing commitment to preserving our navigable waterways. Rule has been building bilge pumps for 30 years. The pumps are preferred by yachtsmen and commercial fishermen the world over.

#### Features and Benefits:

- All-in-one pump & switch - No float switch required.
- Pump turns on when water level rises & shuts off when water is removed.
- Will not pump oil - Straight motor oil that enters the bilge will not turn the pump on.
- Snap-off strainer for easy cleaning.
- Anti-Fouling Impeller.
- The new Rule Mates are available in 500, 750 and 1100 GPH (1893, 2839 and 4164 LPH) models in 12 and 24 volt versions
- Original Rule Mates are available in 1500 and 2000 GPH in 12 and 24 volt versions
- Limited three year warranty.



### Automatic Bilge Pumps

Computerized operation on the principle of impeller resistance. Float switches are not required. The pump will turn on every 2 1/2 minutes for about one second to sense for water. If water is present, the pump will sense resistance and continue to run until all water is removed. Thereafter, it will check for water every 2 1/2 minutes. Power use in the checking mode is minimal.

#### Features and Benefits:

- No external switch.
- Pump operates automatically by sensing for water.
- Pump turns on every 2 1/2 minutes to feel for water. When water is encountered the pump remains on until water is removed and then pump shuts down. Thereafter it reverts to a 2 1/2 minute sensing mode.
- Sizes: 500, 800, 1100, 1500, 2000, 3700, 4000, 8000 GPH in 12 volt versions
- Limited three year warranty.



### Non-Automatic Bilge Pumps

Traditional operation activated by a float switch or panel switch. Rule's Cartridge Series Bilge Pumps have the added feature of replacement motors. This allows you to carry a spare motor, providing an extra level of security and protection. Removal of the motor also allows cleaning of the strainer and impeller area in the event that the pump becomes clogged. Replacement motors are sold separately.

#### Features and Benefits:

- Pump and switch are stand alone products.
- Compact, efficient, long life motors.
- New mercury free float switches.
- Sizes: 360, 500, 800, 1000, 1100, 1500, 2000, 3700, 4000, 8000 gph in 12 and 24 volt versions.
- Limited three year warranty.



## Electric Submersible Pumps



### 360 G.P.H. (1363 L.P.H.)

The Rule 360 provides outstanding quality and value. It is economically priced and designed for small boats. 3/4" (19mm) discharge outlet. 12 volt DC.

- NON-AUTOMATIC**  
**24** 360 gph (1363 lph).  
**24-35A** 360 gph (1363 lph) Pump with Mercury Free Rule-A-Matic® Float Switch.

## Electric Submersible Pumps



### 800 G.P.H. (3028 L.P.H.)

Rule offers two 800 gph (3028 lph) styles - square and round versions. The square model (20F) offers 36 mounting variations as well as a gas resistant strainer base. 3/4" (19mm) discharge outlet. 12 volts DC unless noted.

- NON-AUTOMATIC**  
**20F** 800 gph (3028 lph) Square.  
**20R** 800 gph (3028 lph) Round.  
**21R** 800 gph (3028 lph) Round (24 volt).  
**AUTOMATIC**  
**20R-35A** 800 gph (3028 lph) Pump with Mercury Free Rule-A-Matic® Plus™ Float Switch.  
**20RS** 800 gph (3028 lph) Round.



### 500 G.P.H. (1893 L.P.H.)

The Rule 500 offers many design features while keeping size and cost to a minimum. Especially popular on smaller craft, Rule 500 pumps are unmatched in pumping power and longevity. 3/4" (19mm) discharge outlet. 12 volt DC unless noted.

- RULE-MATE®**  
**RM500A** 500 gph (1893 lph) Rule-Mate®  
**RM500A-24** 500 gph (1893 lph) Rule-Mate® (24 volt).  
**AUTOMATIC**  
**25S** 500 gph (1893 lph) Automatic.  
**25S-24** 500 gph (1893 lph) Automatic (24 volt).  
**25S-6** 500 gph (1893 lph) Automatic with 6' (1.8m) leads.  
**NON-AUTOMATIC**  
**25D** 500 gph (1893 lph).  
**25DC** 500 gph Cartridge (1893 lph).  
**25DC-6** 500 gph (1893 lph) with 6' (1.8m) leads.  
**25-40A** 500 gph (1893 lph) with Mercury Free Rule-A-Matic® Plus™ Float Switch.  
**26D** 500 gph (1893 lph) (24 volt).



### 1000 G.P.H. (3785 L.P.H.)

The Rule 1000 is in a class by itself and is a popular choice among boat builders and boat owners alike. 36 mounting variations and a gas resistant strainer base make this one of Rule's most popular pumps. 1 1/8" (29mm) discharge outlet. 12 volt DC.

- NON-AUTOMATIC**  
**20A** 1000 gph (3785 lph).



### 1100 G.P.H. (4162 L.P.H.)

The Rule 1100 offers impressive pumping power for its size and cost. Competitive models in this pumping range are much larger and far more expensive. 1" (25mm) and 1 1/8" (29mm) discharge outlet. 12 volt DC unless noted.

- RULE-MATE®**  
**RM1100A** 1100 gph (4162 lph) Rule-Mate®.  
**RM1100A-24** 1100 gph (4162 lph) Rule-Mate® (24 volt).  
**AUTOMATIC**  
**27S** 1100 gph (4162 lph) Automatic.  
**NON-AUTOMATIC**  
**27D** 1100 gph (4162 lph).  
**27D-6** 1100 gph (4162 lph) with 6' (1.8m) wire leads.  
**27DC** 1100 gph (4162 lph) non-automatic (12 volt).  
**28D** 1100 gph (4162 lph) (24 volt).



### 700/750 G.P.H. (2650/2839 L.P.H.)

Rule's 700 and 750 gph pumps offer increased capacity in keeping with its 3/4" (19mm) discharge outlet. 12 volt DC unless noted.

- RULE-MATE®**  
**RM750A** 750 gph (2839 lph) Rule-Mate®.  
**RM750A-24** 750 gph (2839 lph) Rule-Mate® (24 volt).  
**NON-AUTOMATIC**  
**20RC** 700 gph Cartridge (2650 lph).



### 1500 G.P.H. (5676 L.P.H.)

High pumping capacity and reliability at a lower cost. The Rule 1500 offers more pumping capacity and more exclusive design features than any comparable competitive pump. 1 1/8" (29mm) discharge outlet. 12 volt DC unless noted.

- RULE-MATE®**  
**RM1500** 1500 gph (5676 lph).  
**NON-AUTOMATIC**  
**02** 1500 gph (5676 lph).  
**02-6** 1500 gph (5676 lph) with 6' (1.8m) wire leads.  
**03** 1500 gph (5676 lph) (24 volt).  
**GOLD SERIES**  
**04** 1500 gph (5676 lph) 5 Year Warranty.  
**AUTOMATIC**  
**51S** 1500 gph (5676 lph).

## Electric Submersible Pumps



### 2000 G.P.H. (7568 L.P.H.)

Engineered to commercial standards. The Rule 2000 is the best selling high capacity submersible bilge pump in the world. 1 1/2" (29mm) discharge outlet. 12 volt DC unless noted.

<b>RULE-MATE®</b>	
<b>RM2000</b>	2000 gph (7568 lph).
<b>RM2000-24</b>	2000 gph (7568 lph) (24 volts).
<b>NON-AUTOMATIC</b>	
<b>10</b>	2000 gph (7568 lph).
<b>10-6UL</b>	2000 gph (7568lph) -UL listed with 6' (1.8m) wire leads.
<b>11</b>	2000 gph (7568 lph) (32 volt).
<b>12</b>	2000 gph (7568 lph) (24 volt).
<b>GOLD SERIES</b>	
<b>09</b>	2000 gph (7568 lph) 5 Year Warranty.
<b>AUTOMATIC</b>	
<b>53S</b>	2000 gph (7568 lph) Automatic.

## Electric Submersible Pumps



### 8000 G.P.H. (30274 L.P.H.)

Our largest capacity submersible pump. Thoughtfully designed, it incorporates two 4000 gph (15137 lph) pumps which discharge through a common 3" (76mm) discharge outlet. Since the two pumps function independently, if one pump fails, the other will continue to operate providing back-up pumping capability. Replacement motor modules available. 12 volt DC unless noted.

<b>NON-AUTOMATIC</b>	
<b>174D</b>	8000 gph (30274 lph).
<b>174D-24</b>	8000 gph (30274 lph) (24 volt).
<b>1750D</b>	8000 gph (30274 lph) Replacement Motor Module (12 volt).
<b>AUTOMATIC</b>	
<b>174S</b>	8000 gph (30274 lph) Automatic.
<b>175S</b>	8000 gph (30274 lph) Automatic Replacement Motor Module.



### 3700 G.P.H. (14002 L.P.H.)

Heavy duty construction for both commercial and pleasure boat use; known for trouble free operation and reliability. 1 1/2" (38mm) discharge outlet. 12 volt DC unless noted.

<b>NON-AUTOMATIC</b>	
<b>14A</b>	3700 gph (14002 lph).
<b>14A-6UL</b>	3700 gph (14002 lph) -UL listed with 6' (1.8m) wire leads.
<b>15A</b>	3700 gph (14002 lph) (32 volt).
<b>16A</b>	3700 gph (14002 lph) (24 volt).
<b>GOLD SERIES</b>	
<b>13A</b>	3700 gph (14002 lph) 5 Year Warranty.
<b>AUTOMATIC</b>	
<b>55S</b>	3700 gph (14002 lph) Automatic.



### PWC Automatic 500 GPH (1893 LPH)

Automatically removes water from engine compartment without the use of a float switch. Cycles every 20 seconds to check for water. Compact design allows it to fit in tight spaces. Easy installation. Equipped with gasoline resistant strainer base and 72" (1.8m) wire leads. 12 volt DC.

**25S-PWC**



### PWC Non-Auto 500 GPH (1893 LPH)

Removes water from engine compartment. Compact design allows it to fit in tight spaces. Easy installation. Equipped with gasoline resistant strainer base and 72" (1.8m) wire leads. 12 volt DC.

**25D-6WC**



### 4000 G.P.H. (15137 L.P.H.)

Designed for the toughest applications, the 4000 GPH (15137 LPH) pump optimizes Rule's exclusive design features to produce the highest capacity available for a pump its size. 2" (51mm) discharge outlet. 12 volt DC unless noted.

<b>NON-AUTOMATIC</b>	
<b>56D</b>	4000 gph (15137 lph).
<b>56D-24</b>	4000 gph (15137 lph) (24 volt).
<b>56D-32</b>	4000 gph (15137 lph) (32 volt).
<b>AUTOMATIC</b>	
<b>56S</b>	4000 gph (15137 lph) Automatic.



### PWC Pump On/Off Switch

Water resistant on/off toggle switch for on demand use of Rule Personal Watercraft Pumps.

**49PWC**

# Pump Specification Charts

# Information Tables

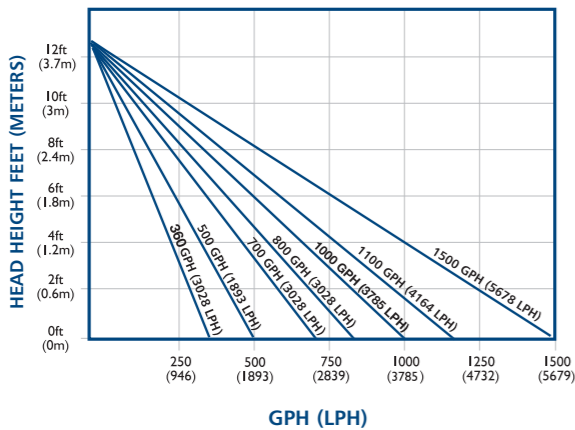


Bilge Pumping Systems

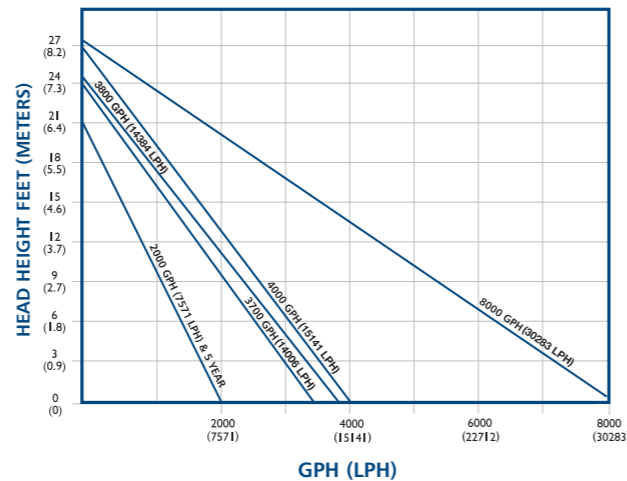
Bilge Pumping Systems

Capacity GPH (LPH)	Model No.	Watts	Volts	Amps @12v	Amps @13.6	Fuse Size	Height (inches/mm)	Width (inches/mm)	Weight (lbs/kgs)	Hose Dia. (inch/mm)	Panel Switches	Float Switches
<b>RULE-MATE® AUTOMATED BILGE PUMPS</b>												
500 (1893)	RM500A	-	12DC	2.0	2.2	3	4.5 (114.3)	6 (152.4)	1-1/8(.5)	3/4(19.0)	41,43,45	-
500 (1893)	RM500A-24	-	24DC	1.0	1.1	1.5	4.5 (114.3)	6 (152.4)	1-1/8(.5)	3/4(19.0)	42,44,45	-
750 (2839)	RM750A	-	12DC	2.7	3.1	5	4.5 (114.3)	6 (152.4)	1-3/16(.6)	3/4(19.0)	41,43,45	-
750 (2839)	RM750A-24	-	24DC	1.4	1.6	3	4.5 (114.3)	6 (152.4)	1-3/16(.6)	3/4(19.0)	42,44,45	-
1100 (4164)	RM1100A	-	12DC	3.4	4.0	5	4.5 (114.3)	6 (152.4)	1-3/16(.6)	1-1/8(.29)	41,43,45	-
1100 (4164)	RM1100A-24	-	24DC	1.7	2.0	3	4.5 (114.3)	6 (152.4)	1-3/16(.6)	1-1/8(.29)	42,44,45	-
1500 (5678)	RM1500	-	12DC	4.8	7.0	10	6(152)	7.25(185)	3-1/2(1.6)	1-1/8(.29)	41,43,45	-
2000 (7571)	RM2000	-	12DC	12	12.0	15	6(152)	7.25(185)	4(1.8)	1-1/8(.29)	41,43,45	-
2000 (7571)	RM2000-24	-	24DC	4.0@24v	6.0@27.2v	7.5	6(152)	7.25(185)	4(1.8)	1-1/8(.29)	41,43,45	-
<b>AUTOMATIC SERIES BILGE PUMPS</b>												
8000 (30280)	174S	-	12DC	15.5(2ea)	20.0(2ea)	25(2ea)	11(279)	12(305)	12/12(5.8)	3(76.0)	-	-
4000 (15140)	56S	-	12DC	15.5	20.0	25	9-1/4(235)	4-7/8(124)	5/8(2.5)	2(51.0)	41,43,45	-
3700 (14010)	55S	-	12DC	15.5	20.0	25	8-1/4(209.5)	4-7/8(124)	5/8(2.5)	1-1/2(38)	41,43,45	-
2000 (7571)	53S	-	12DC	8.4	12.0	15	7-3/4(196.8)	4-3/4(120.6)	4/0(1.8)	1-1/8(.29)	41,43,45	-
1800 (6814)	A53S	100	110AC	-	-	-	7-3/4(196.8)	4-3/4(120.6)	4/0(1.8)	1-1/8(.29)	-	-
1800 (6814)	A53S-24	100	110AC	-	-	-	7-3/4(196.8)	4-3/4(120.6)	4/2(1.9)	1-1/8(.29)	-	-
1500 (5678)	A51S	-	-	-	-	-	-	-	-	-	-	-
1100 (4164)	27S	-	12DC	3.3	5.0	5	4-1/2(114)	2-3/8(60.3)	0/12(0.34)	1-1/8(.29)	41,43,45	-
800 (3028)	20RS	-	12DC	2.8	4.0	5	4-1/4(108)	2-3/8(60.3)	0/14(0.40)	3/4(19.0)	41,43,45	-
500 (1893)	25S	-	12DC	1.9	2.5	2.5	4(102)	2-3/8(60.3)	0/11(0.31)	3/4(19.0)	41,43,45	-
500 (1893)	25S-24	-	24DC	0.9@24v	1.3@27.2v	1.5	4(102)	2-3/8(60.3)	0/11(0.31)	3/4(19.0)	42,44,45	-
500 (1893)	25S-6	-	12DC	1.9	2.5	2.5	4(102)	2-3/8(60.3)	0/12(0.34)	3/4(19.0)	41,43,45	-

Pump Performance - Small RULE Pumps



Pump Performance - Large RULE Pumps



## Non-Automatic Bilge Pumps

Capacity GPH (LPH)	Model No.	Watts	Volts	Amps @12v	Amps @13.6	Fuse Size	Height (inches/mm)	Width (inches/mm)	Weight (lbs/kgs)	Hose Dia. (inch/mm)	Panel Switches	Float Switches
8000(30280)	174D	-	12DC	15.5(2ea)	20.0(2ea)	25(2ea)	7-3/4(196.8)	12(305)	10/12(4.9)	3(76.0)	-	-
4000(15140)	56D	-	12DC	15.5	20.0	25	7(178)	4-7/8(124)	5/8(2.5)	2(51.0)	41,43,45,49	37A, 40A
4000(15140)	56D-24	-	24DC	6.9@24v	10.0@27.2v	15	7-3/4(196.8)	4-7/8(124)	5/8(2.5)	2(51.0)	42,44,45,49	37A, 40A
4000(15140)	56D-32	-	32DC	5.0@32v	7.5@36.3	10	7-3/4(196.8)	4-7/8(124)	5/8(2.5)	2(51.0)	-	37A, 40A
3800*(14383)	17A	-	12DC	15.5	20.0	25	5-1/4(133)	8-1/2(216)	5/10(2.6)	1-1/2(38)	49	-
3700(14010)	13A	-	12DC	15.5	20.0	25	7-1/4(184)	4-7/8(124)	5/4(2.4)	1-1/2(38)	41,43,45,49	37A, 40A
3700(14010)	14A	-	12DC	15.5	20.0	25	7-1/4(184)	4-7/8(124)	5/4(2.4)	1-1/2(38)	41,43,45,49	37A, 40A
3700(14010)	14A-6JUL	-	12DC	15.5	20.0	25	7-1/4(184)	4-7/8(124)	5/5(2.4)	1-1/2(38)	41,43,45,49	37A, 40A
3700(14010)	16A	-	24DC	6.9@24v	10.0@27.2v	15	7-1/4(184)	4-7/8(124)	5/4(2.4)	1-1/2(38)	42,44,45,49	37A, 40A
3700(14010)	15A	-	32DC	5.0@32v	7.5@36.3v	10	7-1/4(184)	4-7/8(124)	5/4(2.4)	1-1/2(38)	-	37A, 40A
3700(14010)	18A	-	24DC	6.9@24v	10.0@27.2v	15	5-1/4(133)	8-1/2(216)	5/10(2.6)	1-1/2(38)	42,44,45	-
3700*(14010)	19A	-	32DC	5.0@32v	7.5@36.3v	10	5-1/4(133)	8-1/2(216)	5/10(2.6)	1-1/2(38)	-	-
2000(7571)	09	-	12DC	8.4	12.0	15	6(152)	4-1/4(108)	2/15(1.3)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
2000(7571)	10	-	12DC	8.4	12.0	15	6(152)	4-1/4(108)	2/15(1.3)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
2000(7571)	10-6JUL	-	12DC	8.4	12.0	15	6(152)	4-1/4(108)	3/0(1.4)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
2000(7571)	11	-	32DC	3.1@32v	5.0@36.3v	6	6(152)	4-1/4(108)	2/15(1.3)	1-1/8(.29)	42,44,45,49	35A, 37A, 40A
2000(7571)	12	-	24DC	4.0@24v	6.0@27.2v	7.5	6(152)	4-1/4(108)	2/15(1.3)	1-1/8(.29)	42,44,45,49	35A, 37A, 40A
1800(6814)	H53SP-24	100	110AC	-	-	-	7-3/4(196.8)	10-1/2(267)	4/2(1.9)	1-1/8(.29)	-	-
1800(6814)	A53D	100	110AC	-	-	-	7-3/4(196.8)	4-3/4(120.6)	4/0(1.8)	1-1/8(.29)	-	-
1500(5678)	02	-	12DC	4.8	7.0	10	6(152)	4-1/4(108)	2/10(1.2)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
1500(5678)	02-6	-	12DC	4.8	7.0	10	6(152)	4-1/4(108)	2/10(1.2)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
1500(5678)	03	-	24DC	2.3@24v	3.5@27.2v	4	6(152)	4-1/4(108)	2/10(1.2)	1-1/8(.29)	42,44,45,49	35A, 37A, 40A
1500(5678)	04	-	12DC	4.8	7.0	10	6(152)	4-1/4(108)	2/10(1.2)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
1100(4164)	27D	-	12DC	3.3	5.0	6	4-1/4(108)	2-3/8(60.3)	0/10(0.28)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
1100(4164)	27D-6	-	12DC	3.3	5.0	6	4-1/4(108)	2-3/8(60.3)	0/11(0.31)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
1100(4164)	28D	-	24DC	1.3@24v	2.0@27.2v	2.5	4-1/4(108)	2-3/8(60.3)	0/10(0.28)	1-1/8(.29)	42,44,45,49	35A, 37A, 40A
1100(4164)	27DC	-	12DC	3.3	5.0	6	4-1/4(108)	2-3/8(60.3)	0/11(0.31)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
1000(3785)	20A	-	12DC	2.9	4.0	5	4(102)	2-7/8(73)	0/14(0.40)	1-1/8(.29)	41,43,45,49	35A, 37A, 40A
800(3028)	20F	-	12DC	2.8	4.0	5	4(102)	2-7/8(73)	0/14(0.40)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
800(3028)	20R	-	12DC	2.8	4.0	5	3-3/4(95.25)	2-3/8(60.3)	0/10(0.28)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
800(3028)	21R	-	24DC	1.3@24v	2.0@27.2v	2.5	3-3/4(95.25)	2-3/8(60.3)	0/10(0.28)	3/4(19.0)	42,44,45,49	35A, 37A, 40A
800(3028)	20RC	-	12DC	2.8	4.0	5	3-3/4(95.25)	2-3/8(60.3)	0/10(0.28)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
500(1893)	26D	-	24DC	0.9@24v	1.3@27.2v	1.5	3-1/2(89)	2-3/8(60.3)	0/9(0.26)	3/4(19.0)	42,44,45,49	35A, 37A, 40A
500(1893)	25D	-	12DC	1.9	2.5	2.5	3-1/2(89)	2-3/8(60.3)	0/9(0.26)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
500(1893)	25D-6	-	12DC	1.9	2.5	2.5	3-1/2(89)	2-3/8(60.3)	0/10(0.28)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
500(1893)	25D-6WC	-	12DC	1.9	2.5	2.5	3-1/2(89)	2-3/8(60.3)	0/10(0.28)	3/4(19.0)	49PWC	-
500(1893)	25DC	-	12DC	1.9	2.5	2.5	3-1/2(89)	2-3/8(60.3)	0/9(0.26)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
360(1363)	24	-	12DC	2.1	2.5	2.5	3-1/2(89)	2-3/8(60.3)	0/9(0.26)	3/4(19.0)	41,43,45,49	35A, 37A, 40A
360(1363)	24-6DC	-	12DC	1.9	2.5	2.5	3-1/2(89)	2-3/8(60.3)	0/9(0.26)	3/4(19.0)	41,43,45,49	35A, 37A, 40A

\*Always use recommended fuse amperage rating specified for your pump model. Failure to install fuse could result in serious personal injury or fire hazards.

## In-Line Submersible Pumps



**NEW**

### Charge N' Flow Kit

The new Charge N' Flow pump is rechargeable, submersible and is designed for a wide variety of applications, both onboard and ashore. The versatility of the pump along with multiple power options makes it the ideal pump to keep on hand for any situation. Plus, with battery power and two convenient power options, it works wherever you need it.

The Charge n' Flow pump is very compact, only 5.5 inches (140mm) tall and 1.5 inches (38mm) in diameter, and can handle up to 100 gallons of water (379 L) on a single battery charge. When connected to a car battery, it can pump endless amounts of water! It is ideally suited for pumping fresh and sea water or diesel, diesel refueling and transfer, home & garden, plumbing, windshield fluid transfer, camping & kayaking, washdown for cars, RV, anchors and boats, bilge or storm water emptying.

The Charge N' Flow kit comes complete with a 12 volt 280 gph (1060 lph) pump, eight feet (2.4m) of lay flat hose, spray nozzle, enclosed battery, 110v ac battery charger, battery clip adaptor, and a vehicle power adaptor. It also includes a filter for use in submersible mode or when the filter is removed, the pump can be used inline.

- Pumps fresh water, sea water, diesel and anti-freeze.
- Diesel refuelling and transfer.
- Pumps up to 100 gallons (379 l) per charge.
- All components are enclosed in a convenient carrying case.
- Three power options included - rechargeable battery, with 110v battery charger, car battery clip adaptor and vehicle power adaptor.
- Multiple uses for indoor and outdoor.

**RP280KR** 280 gph (1060 lph), 12 volt.

### Kit Includes:

- Pump with quick disconnect fitting and fuse.
- Battery terminal power adaptor.
- Vehicle power adaptor.
- 8' (2.4m) lay flat hose.
- Spray nozzle.
- Case with integrated battery.
- Battery charger.

### Slimline Pumps

Rule has developed a family of compact combination Submersible and In-line pumps and Portable Pump Kits designed for a wide variety of uses, both onboard and ashore. There are four models in the Slimline Series which include strainers for use in submersible mode or, when the filter is removed, for use in the inline pumping mode. These pumps are capable of pumping hot or cold fresh water, seawater, antifreeze and even diesel.

The pumps can be used to pump bilge water from tight spaces, as deck showers, for general wash down, water and diesel transfer or engine winterizing.

- Delivers up to 500 gph (1892 lph).
- Pumps fresh and seawater, diesel and anti-freeze.
- Wash down for cars, vehicles, anchors and decks.
- Deck shower.
- Under engine bilge pumping.
- Diesel refueling and transfer.
- Garden watering.
- Container filling and emptying.
- Sink draining.
- Engine winterizing.

**iL500P** 500 gph (1892 lph), 12 volt

**iL500P-24** 500 gph (1892 lph), 24 volt.

**iL280P** 280 gph (1059 lph), 12 volt.

**iL280P-24** 280 gph (1059 lph), 24 volt.

**iL200P** 200 gph (756 lph), 12 volt.

**iL200P-24** 200 gph (756 lph), 24 volt.

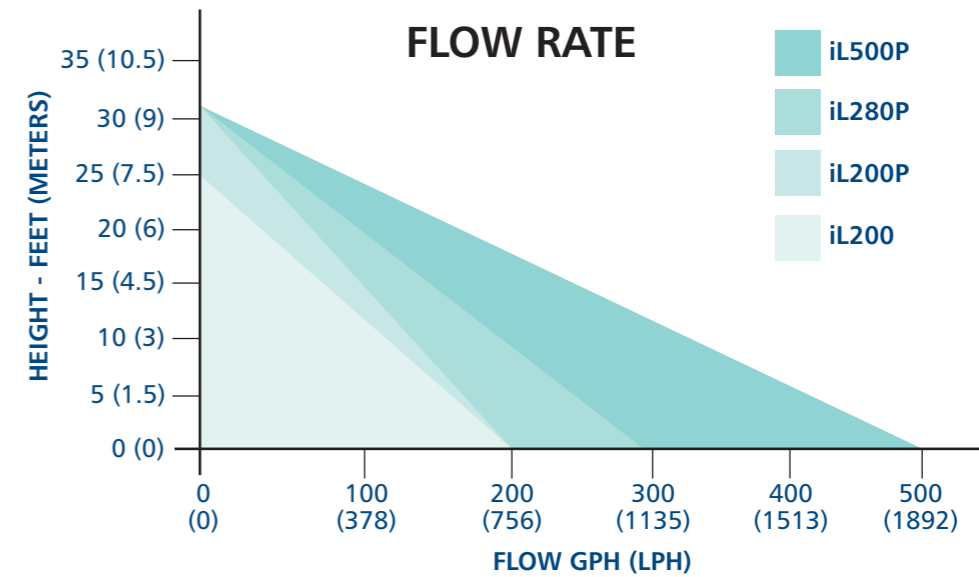
**iL200\*** 200 gph (756 lph), 12 volt.

\*Not for use with diesel.

## In-Line Submersible Pumps



### Comparison Chart



### Specification Table

Model	iL500Plus	iL280Plus	iL200Plus	iL200
Pump Type	Centrifugal submersible and inline pump			
Current	12V - 6 amp 24V - 3 amp	12V - 4.5 amp 24V - 2.5 amp	12V - 4.5 amp 24V - 2.5 amp	12V - 2.8 amp
Head	32ft (9.7m)	32ft (9.7m)	32ft (9.7m)	25ft (7.6m)
Flow Rate	500 GPH (1920 LPH)	280GPH (1080LPH)	200GPH (760LPH)	200GPH(760LPH)
Rating	Continuously Rated*	Continuously Rated*	Continuously Rated*	Intermittent Rated**
Outlets	3/4 (19mm) ID hose	1/2" (13mm) ID hose	1/2" (13mm) ID hose	3/8" (10mm) & 1/2"(13mm) ID hose
Pressure	14 psi (0.96 bar)	14 psi (0.96 bar)	11 psi (0.76 bar)	14 psi (0.96 bar)
Body	Acetal	Acetal	Acetal	Styrene
Length	6.5" (165mm)	6.5" (165mm)	5.6" (142mm)	5.1" (130mm)
Diameter	1.5" (38mm)	1.5" (38mm)	1.5" (38mm)	1.4" (36mm)
Cable Length	13ft (4m)	13ft (4m)	3ft (1m)	3ft (1m)
Liquid	Fresh & Seawater / Diesel	Fresh & Seawater / Diesel	Fresh & Seawater / Diesel	Fresh & Seawater
Operating Temp	Water systems to176°F (80°C)	Water systems to176°F (80°C)	Water systems to176°F (80°C)	Water systems to140°F (60°C)

\*Should not be run dry for long periods of time.

\*\*Should not be run for more than 20 minutes and rested for equal time.

## Switches - Bilge Pump Control

**Rule-A-Matic® Float Switch**

Year after year, the Rule-A-Matic has been the switch of choice for boaters the world over. Our latest design now includes a removable base for easy cleaning and servicing, a mercury free snap switch tested to over one million cycles and marine grade "blocked" wire. Designed for pumps drawing up to 14 Amps at 12 volt DC. Model 35A and 35FA now includes a 2 year warranty.

- 35A** Rule-A-Matic® float switch, 2¼" x 5" x 1¾" (57 x 127 x 58mm), 12-24v DC, fuse 14 amp (12v), 7 amp (24v).
- 35FA** Rule-A-Matic® float switch with fuse holder.

**Rule-A-Matic® Plus™ Float Switch**

Sleek and rugged, the Rule-A-Matic Plus float switch has a strong, fully integrated and impact resistant cover, which protects against debris and jamming. 14 gauge highly abrasive resistant marine grade wire, and a built-in test feature. Designed for pumps drawing up to 20 amps at 12 volt DC. Model 40A and 40FA now includes a 2 year warranty.

- 40A** Rule-A-Matic® Plus™ float switch, 3" x 5½" x 2½" (76 x 137 x 64mm), 12-24-32v DC, fuse 20amp (12v), 10amp (24v), 6.5 amp (32v).
- 40FA** Rule-A-Matic® Plus™ float switch with fuse holder.

**SuperSwitch™ Float Switch**

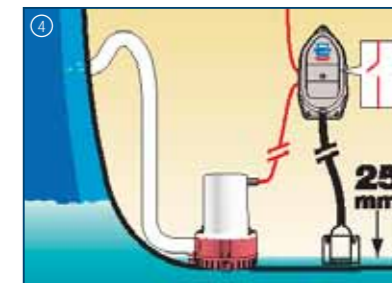
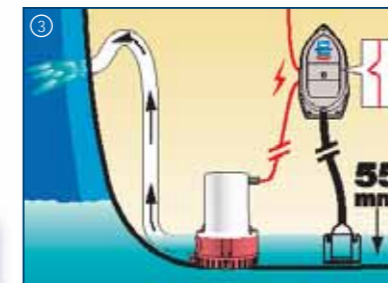
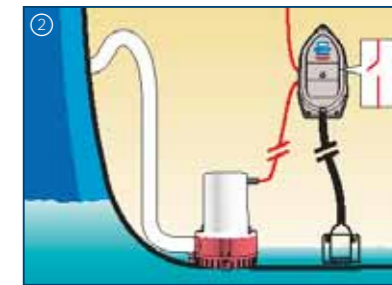
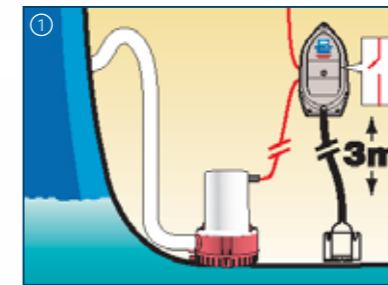
Now backed by a 5 year warranty, the non-mercury SuperSwitch is designed for the toughest applications. Design includes marine grade 14 gauge "blocked wire," larger float for increased buoyancy, removable base for easy servicing and a snap switch design capable of handling pumps drawing up to 20 amps at 12 volt DC.

- 37A** SuperSwitch™ float switch, 2¼" x 5" x 2" (57 x 127 x 51mm), 12-24-32v DC, fuse 20amp (12v), 10amp (24v), 6.5 amp (32v).
- 37FA** SuperSwitch™ float switch with fuse holder.

## Switches - Bilge Pump Control

**ECO-Switch**

The Rule ECO-Switch is an ecologically sound automatic bilge pump control switch. Featuring a non-mercury design, the pump operates with simple air pressure. As water rises in the bilge, air rises in the air tube that is attached to the switch. The air pressure activates the switch which controls your pump. All wiring is out of the water and there are no submerged electrical connections at all. Offering complete reliability and outstanding performance, the Rule ECO-Switch offers a viable alternative to traditional float switches. For pumps drawing up to 20 amps.



- 39** 1½" x 6" x 2½" (48 x 152 x 70mm), 12v DC, fuse 20 amp.
- 39-24** 1½" x 6" x 2½" (48 x 152 x 70mm), 24v DC, fuse 10 amp.

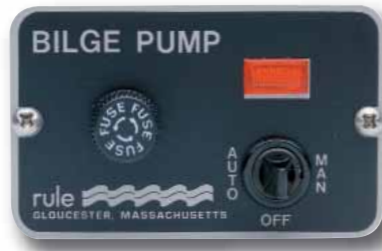
**High-Water Bilge Alarms**

The High Water Bilge Alarm consists of a float switch and an in-dash gauge that features both a visual and an audible 85 db alarm. This unit allows an unmanned compartment to be constantly monitored. For additional compartments, add additional Rule Float Switches. Complies with CFR 182.530 which requires a visual and audible alarm in each unmanned space on commercial vessels at least 26' (7.9m) in length.



- 33ALA** 12v DC.
- 32ALA** 24v DC.
- 31ALA** 32v DC.
- M-1507** Alarm Only.

## Switches - Panel



### 3-Way Panel Lighted Switch

Controls any pump equipped with an automatic float switch. Toggle has three positions (automatic, off, or manual) and has a "fail safe" spring return to "off" from the "manual" position. Panel is black stainless steel with a red indicator light and fuse holder.

- 41 3¼" x 2" (83 x 51mm), 12v DC, fuse 20 amp.
- 42 3¼" x 2" (83 x 51mm), 24/32v DC, fuse 10 amp (24v), 6.5 amp (32v).



### 3-Way Panel Switch

Similar to the Lighted Panel Switch but without indicator light or fuse holder. The "manual" position has a "fail-safe" spring return to "off" so you can't leave your pump running by accident. Black stainless steel panel.

- 45 2½" x 2" (57 x 51mm), 12/24/32v DC, fuse 20 amp (12v), 10 amp (24v), 6.5 amp (32v).



### 3-Way Panel Lighted Rocker Switch

Controls any pump equipped with an automatic float switch. This unit features a black plastic panel, a built-in fuse holder and an internally lighted rocker switch with 3 positions (automatic, off or manual) with the Rule "fail-safe" spring return to "off" from the "manual" position.

- 43 2½" x 2½" (73 x 60mm), 12v DC, fuse 20 amp.
- 44 2½" x 2½" (73 x 60mm), 24/32v DC, fuse 10 amp.



### 2-Way Panel Switch

Attractive black stainless steel panel highlights your control panel. Simple "on" and "off" toggle provides fingertip control.

- 49 2½" x 2" (57 x 51mm), 12/24/32v DC, fuse 20 amp (12v), 10 amp (24v), 6.5 amp (32v).

## Accessories - Hose/Adapters/Fittings



### Corrugated White Polyethylene Bilge Hose

All Rule hoses are designed for use with Rule pumps. Sizes up to and including 1½" (38mm) diameter have smooth mounting cuffs every 12" (305mm). Flexible for easy installation and resistant to detergents, oil, gasoline, diesel fuel and salt water.

- 81 ¾" (19mm) ID Hose in 100' (31m) lengths.
- 80 1½" (29mm) ID Hose in 100' (31m) lengths.
- 88 1½" (38mm) ID Hose in 100' (31m) lengths.
- 90 2" (51mm) ID Hose in 50' (15m) lengths.
- 92 3" (76mm) ID Hose in 50' (15m) lengths.



### Deluxe PVC Ribbed Bilge Hose

Clear ribbed bilge hose. Smooth inside finish improves pump performance. Rigid helix provides excellent abrasion resistance.

- 82 ¾" (19mm) ID Hose in 100' (31m) lengths.
- 83 1½" (29mm) ID Hose in 100' (31m) lengths.
- 84 1½" (38mm) ID Hose in 100' (31m) lengths.



### 3-Way Fitting for Bilge Hose

Rule offers convenient "Y" and "Y" fittings for popular bilge hose sizes.

- 212 Y Fitting, ¾" (19mm) hose.
- 213 Y Fitting, 1½" (29mm) hose.
- 215 T Fitting, ¾" (19mm) hose.
- 216 T Fitting, 1½" (29mm) hose.



## Accessories - Hose/Adapters/Fittings



### Adapters

- 63** Bulkhead adapter-adapts 1/2" (38mm) hose to standard garden hose fitting.
- 67** Hose adapter-adapts 1/2" (38mm) outlet to 1/4" (29mm) hose.
- 68** Garden hose adapter-adapts 1/2" (29mm) outlet to standard garden hose fitting.
- 69\*** Double stepped straight adapter for adapting 1/2" (29mm) outlet to 3/8" (19mm) or 1/4" (16mm) ID hose.
- 64** Adapter to attach Rule SuperSwitch to Rule 3700 (14002) and 4000 gph (15137 lph) Pumps.
- 65** Adapter to attach Rule SuperSwitch or Rule-A-Matic® mercury free float switch to Rule 1500 (5676), 2000 gph (7568 lph) and 5-Year Pumps.

*\*Not suitable for use with Rule Mate pumps.*



### Thru Hull Fittings

*High impact plastic will not rust, corrode or discolor. Specially designed for Rule pumps.*

- 59** 1/2" (38mm) straight.
- 60** 1/4" (29mm) straight.
- 61S** 3/8" (19mm) straight.
- 61** 3/8" (19mm) right angle.
- 62** 1/4" (16mm) right angle.
- 72** 2" (51mm) straight.
- 74** 3" (76mm) straight.



### Adapters

*90° elbow adapters are designed for rigid pipe installations of Sump and Utility Pumps. Adapters snap onto discharge port. Opposite end is female pipe threaded. High impact plastic will not rust, corrode or discolor. Garden hose adapter snaps onto discharge port converting pump into standard garden hose fitting.*

- 57** Adapts 1800 gph (6814 lph) pump to 1" (25mm) NPT.
- 58** Adapts 2800 gph (10596 lph) pump to 1/2" (32mm) NPT.
- 68** Garden Hose Adapter.

## Accessories - Hose/Adapters/Fittings



### Stainless Steel Debris Strainer

*Extra measure of protection for use on round based Rule pumps up to 3700 gph (14010 lph). Installs directly into existing strainer. Filters out excess debris and helps prevent jamming and failure.*

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### Universal Pump Adapter

*Allows all Rule 360 (1360), 500 (1893), 800 (3028) Round and 1100 gph (4164 lph) pumps to be mounted to competitive bases: Attwood® V-500, Mayfair Proline 500 (1893), 750 (2839), 1000 (3785) and West Marine 500 (1893), 750 (2839) and 1000 gph (3785 lph) models.*

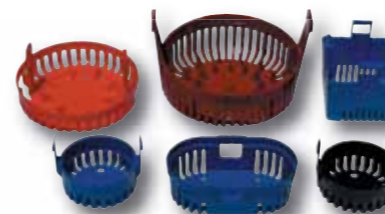
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### Side Mount Brackets

*Permits small Rule bilge pumps to be side mounted to a vertical stringer, a bulkhead or a transom. Use this bracket when bottom mounting is inconvenient or impossible. Simply remove the strainer from the pump, put the bracket in place, and reassemble.*

- 66** Round pumps from 360 (1363) to 1100 gph (4162 lph).



### Replacement Strainer Bases

*Original replacement strainer base for your Rule Bilge Pump.*

- 275** Round Rule Pumps, 360 to 1100 gph.
- 276** Gas Resistant Strainer Base for above models.
- 277** Square Rule Bilge Pumps.
- 278** Round Rule Pumps, 1500 to 2000 gph.
- 279** Round Rule Pumps, 2800 to 3700 gph.
- 285** Rule-Mate Bilge Pumps, 500 to 1100 gph (Pre 2009 Models).
- 286** Rule-Mate Bilge Pumps, 1500 to 2000 gph.

## Amazon Manual Diaphragm Pumps



### Amazon Bulkhead

**For mounting on bulkhead or deck.**

- Repositionable ports and body offer an amazing 96 assembly variations.
- Sustainable 12 gpm (45 lpm) output.
- Self-priming up to 13ft (4m).
- Corrosion resistant materials throughout.
- Stainless steel handle supplied with mounting clips and provision for safety lanyard.

**Fitting:** Connections for 1" (25mm) ID hose.

**Size:** 7" wide x 8" deep x 4<sup>3</sup>/<sub>4</sub>" high (18cm x 20cm x 12cm).

**Weight:** 1.4lb (0.6kg).

**29240-0000** Bulkhead Pump, c/w detachable handle.

**29246-1000** Service Kit.

*For service and spare parts listing see page 199.*



### Amazon ThruDeck

**For mounting through deck or through bulkhead.**

- The ultimate compact through deck pump with no less than 16 port variations relative to the body.
- Readily achievable 13 gpm (50 lpm) output.
- Self-priming up to 16ft (5m).
- Loosening just one screw lets you clear blockages or position the body anywhere through 360° relative to the handle position.
- Compact design and low profile allow installation in confined spaces.
- Sleekly styled Through Deck Kit and cover, with 4 mounting positions relative to the pump.
- Excellent solids handling ability for use with holding tanks.

- Corrosion resistant materials throughout.
- Stainless steel handle supplied with mounting clips and provision for safety lanyard.

**Fitting:** Connections for 1" (25mm) ID hose or 1<sup>1</sup>/<sub>2</sub>" (38mm) hose.

**Size:** 10" long x 4<sup>5</sup>/<sub>16</sub>" wide x 4<sup>1</sup>/<sub>2</sub>" deep (25cm x 11cm x 12cm).

**Weight:** 2<sup>1</sup>/<sub>2</sub>lbs (1.2kg).

**29250-0000** 1" (25mm) ThruDeck Pump, with detachable handle and Through Deck Kit.

**29250-0010** 1<sup>1</sup>/<sub>2</sub>" (38mm) ThruDeck Pump, c/w detachable handle and Through Deck Kit.

**29256-1000** Service Kit.

*For service and spare parts listing see page 199.*



### Amazon Universal

**For mounting on bulkhead, through bulkhead, on deck or through deck.**

- Unique safety feature allows operation from both inside and outside the cabin (with optional Through Deck Kit).
- Flow rate of up to 25 gpm (100 lpm).
- Self-priming up to 10ft (3m).
- Push-fit inlet and outlet elbows swivel through 360° to increase flexibility of installation still further.
- Corrosion resistant materials throughout.
- Quick release clamp ring gives fast access for blockage clearance.
- 1<sup>1</sup>/<sub>2</sub>" (38mm) ports give excellent solids handling ability for use with holding tanks.

- Stainless steel handle supplied with mounting clips and provision for safety lanyard.

**Fitting:** Connections for 1<sup>1</sup>/<sub>2</sub>" (38mm) ID hose.

**Size:** 9<sup>1</sup>/<sub>2</sub>" wide x 9<sup>1</sup>/<sub>2</sub>" high x 6" deep (24cm x 24cm x 15cm).

**Weight:** 2.9lb (1.2kg).

**29270-0000** Universal Pump, with detachable handle and one Push-fit Elbow.

**29279-0000** Optional Through Deck Kit.

**29266-1000** Additional Push-fit Elbow.

**29276-1000** Service Kit.

*For service and spare parts listing see page 200.*



### Bilge Strainers

**Stop bilge debris blocking inlet suction hose and reduce the risk of debris entering and blocking the pump.**

- Available to suit 3/4", 1" and 1<sup>1</sup>/<sub>2</sub>" (19mm, 25mm and 38mm) ID hose.
- Non-return valve fitted to stop bilge water draining back when pumping stops.
- Re-positional ports allow horizontal, vertical or sideways hose attachments.
- Easily removable strainer plate for cleaning.
- Corrosion resistant materials throughout.

**Fitting:** Connections for 3/4", 1" or 1<sup>1</sup>/<sub>2</sub>" (19mm, 25mm or 38mm) ID hose.

**Size:** 6<sup>3</sup>/<sub>4</sub>" long x 2<sup>3</sup>/<sub>4</sub>" wide x 2<sup>1</sup>/<sub>2</sub>" high (17cm x 7.2cm x 6cm).

**Weight:** 1/4 lb (0.1kg).

**29290-1020** Bilge Strainer for 3/4" (19mm) ID hose.

**29290-1000** Bilge Strainer for 1" (25mm) ID hose.

**29290-1010** Bilge Strainer for 1<sup>1</sup>/<sub>2</sub>" (38mm) ID hose.

## Amazon Manual Diaphragm Pumps



### Amazon Warrior

**For mounting on deck, or through deck (with optional Through Deck Kit and Bracket).**

- Robust design particularly suited to workboats and larger leisure craft, or any installation where particularly heavy duty use is anticipated.
- 29280-0100 Model with swivel arms and captive wheel nuts meets DTI requirements for use on lifeboats.
- 18" (45cm) handle assists sustained high outputs of up to 35 gpm (135 lpm).
- Self-priming up to 17.5ft (5.5m).
- Double diaphragm design gives maximum efficiency, and added safety.
- 1<sup>1</sup>/<sub>2</sub>" (38mm) ports give large solids handling ability.
- Can function on one diaphragm in an emergency.

- Corrosion resistant materials throughout.
- Fitting:** Connections for 1<sup>1</sup>/<sub>2</sub>" (38mm) ID hose.

**Size:** 14" wide x 9<sup>1</sup>/<sub>2</sub>" high x 8" deep (35.5cm x 24cm x 20cm).

**Weight:** 11lbs (4.95kg).

**29280-0000** Warrior Pump, with detachable handle.

**29280-0100** Warrior Pump, lifeboat version.

**29279-0000** Optional Through Deck Kit.

**29289-0000** Under Deck Bracket (required for use with Through Deck Kit).

**29286-1000** Service Kit.

*For service and spare parts listing see page 200.*



### In-Line Non-Return Valves

**Non-return valves fit in a pump's suction hose to aid priming and prevent backflow of water into the bilges.**

- Available for three hose sizes - 3/4", 1" and 1<sup>1</sup>/<sub>2</sub>" (19mm, 25mm and 38mm).
- Simply fit into suction hose.
- Corrosion resistant materials throughout.

**Fitting:** Connections for 3/4", 1" or 1<sup>1</sup>/<sub>2</sub>" (19mm, 25mm or 38mm) ID hose.

**Size:** 4<sup>1</sup>/<sub>8</sub>" long x 2<sup>1</sup>/<sub>8</sub>" wide x 2" high (10.8cm x 5.5cm x 5cm).

**Weight:** 1/4 lb (0.1kg).

**29295-1011** In-line non-return valve for 3/4" (19mm) ID hose.

**29295-1000** In-line non-return valve for 1" (25mm) ID hose.

**29295-1010** In-line non-return valve for 1<sup>1</sup>/<sub>2</sub>" (38mm) ID hose.

## Amazon Mounting Positions

### Amazon Bulkhead



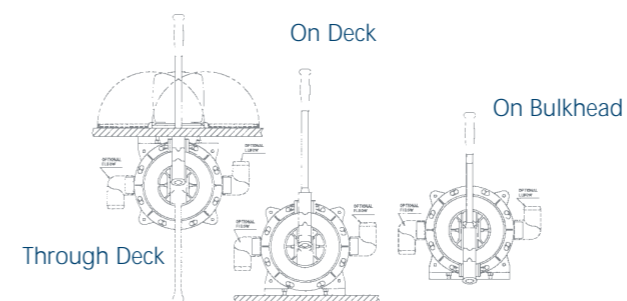
Port Positions

### Amazon ThruDeck

360° Rotation

Through Deck

### Amazon Universal

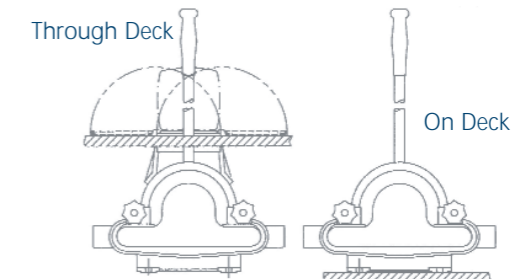


On Deck

On Bulkhead

Through Deck

### Amazon Warrior



Through Deck

On Deck

## Electric Diaphragm Pumps



### 50880 Series Bilge Pump

**Robust diaphragm pump suitable for bilge applications with a multi-positional pump head.**

- 4.2 gpm (16 lpm) open flow output at 3ft (1m) head.
- Self-priming up to 10ft (3m) vertical lift allows mounting above wet bilges.
- Flexible Installation.
- Compact and simple design.
- Filter-less.
- Quiet running.
- Capable of extensive dry running.
- Corrosion resistant parts.

- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
  - ISO 8849 MARINE (Bilge Pump Standard).
- Fitting:** Connections for 3/4" (19mm) ID Hose.
- Size:** 11.7" long x 5.9" wide x 4.4" high (29.7cm x 15cm x 11.1cm).
- Weight:** 6lb (2.7kg).
- 50880-1000** 12 volt DC model, fuse 10 amp.
- 50880-1100** 24 volt DC model, fuse 5 amp.
- SK880** Service Kit.

For service and spare parts listing see [page 189](#).



### PAR-Max 4 31705

**New generation, continuous rated bilge pump with waterproof coating for harsh environments.**

- 258 usgph (978 lph) open flow output
- Self-priming up to 10ft (3m) allows mounting above wet bilges.
- Diaphragm design allows extended dry running.
- Build-in thermal overload protection.
- Complete with Pumpgard™ strainer.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).

- ISO 8849 MARINE (Bilge Pump Standard).
- Fitting:** Connections for 3/4" (19mm) ID hose.
- Size:** 7 1/4" long x 4 1/8" wide x 4 1/16" high (18cm x 10.5cm x 10cm).
- Weight:** 5.5lb (2.5kg).
- 31705-0092** 12 volt DC, fuse 10 amp.
- 31705-0094** 24 volt DC, fuse 7 amp.
- 18912-3050** Diaphragm Kit.

For service and spare parts listing see [page 197](#).



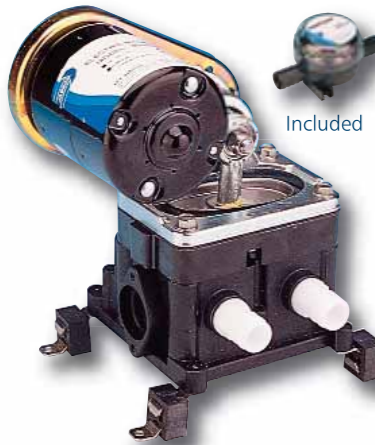
### 37202 Series 2

**Quiet running and corrosion resistant bilge, shower and sink drain pump.**

- 200 usgph (780 lph) open flow output.
- Self-priming up to 6ft (2m) vertical lift.
- Diaphragm design allows extended dry running.
- Complete with Pumpgard™ pre-filter.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
- ISO 8849 MARINE (Bilge Pump Standard).

- Fitting:** Connections for 3/4" (19mm) ID hose.
- Size:** 5 1/4" wide x 5 3/4" high x 7 1/2" deep (13cm x 15cm x 19cm).
- Weight:** 5 1/2lb (2.5kg).
- 37202-2012** 12 volt DC model, fuse 10 amp.
- 37202-2024** 24 volt DC model, fuse 5 amp.
- 50095-1000** Service Kit.

For service and spare parts listing see [page 188](#).



### PAR 36680

**Fully serviceable, bilge and deckwash pump.**

- 330 usgph (1250 lph) open flow output.
- Self-priming up to 7ft (2m) vertical lift, allows mounting above wet bilges.
- Diaphragm design allows extended dry running.
- Complete with Pumpgard™ strainer.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
- ISO 8849 MARINE (Bilge Pump Standard).

- Fitting:** Connections for 3/4" (19mm) ID hose.
- Size:** 7 5/8" long x 6 1/2" wide x 8 1/2" high (19.4cm x 16.5cm x 21.6cm).
- Weight:** 8lb (6kg).
- 36680-2000** 12 volt DC model, fuse 10 amp.
- 36680-2010** 24 volt DC model, fuse 6 amp.
- 43990-0062** Service Kit. (new, -2xxx models only).

For service and spare parts listing see [page 191](#).

## Electric Diaphragm Pumps



### PAR 36600

**Fully serviceable, bilge pump.**

- 475 usgph (1800 lph) open flow output.
- Self-priming up to 10ft (3m) vertical lift, allows mounting above wet bilges.
- Diaphragm design allows extended dry running.
- Complete with Pumpgard™ strainer.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 3/4" (19mm) ID hose.

**Size:** 8 5/8" long x 5 7/8" wide x 8 1/4" high (22cm x 15cm x 21cm).

**Weight:** 11lb (5kg).

- 36600-0000** 12 volt DC model, fuse 15 amp.
- 36600-0010** 24 volt DC model, fuse 8 amp.
- 30124-0000** Service Kit.

For service and spare parts listing see [page 193](#).



### PAR 34600

**Fully serviceable, bilge pump.**

- 645 usgph (2450 lph) open flow output.
- Self-priming up to 10ft (3m) vertical lift, allows mounting above wet bilges.
- Diaphragm design allows extended dry running.
- Permanently lubricated ball bearings add to pump life.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 1" (25mm) ID hose.

**Size:** 9 3/16" long x 8 5/8" wide x 10 1/2" high (23.4cm x 22cm x 26.7cm).

**Weight:** 13lb (6kg).

- 34600-0000** 12 Vvolt DC model, fuse 15 amp.
- 34600-0010** 24 volt DC model, fuse 8 amp.

Requires a Bilge Strainer, see accessories [page 61](#).

**30101-0000** Service Kit.

For service and spare parts listing see [page 190](#).



### Bilge Pumpgard™ Strainer

- Strainer protects all electric diaphragm bilge pumps.
- Prevents unnecessary pump breakdowns caused by particles in the water.
- Transparent housing allows instant inspection.
- 46200-0000 model installs in-line between bilge pick up and pump.
- Quick in-place cleaning of the 20 mesh stainless steel screen.

**Fitting:** Connections for 3/4" (19mm) ID hose.

**Weight:** 1/2lb (0.2kg).

**Size:** 4 3/4" long x 2 3/4" wide x 2 1/2" high (12cm x 7cm x 6cm).

- 46200-0000** Model for 3/4" (19mm) ID Hose.
- 46200-0010** 3/4" (19mm) ID Hose x Plug-in 90 degree.
- 18753-0020** Replacement 20# Mesh Filter.



### Bilge Master

**Water resistant Master Panel with 3-way switch and front access fuse holder for any automatically controlled 12 or 24 Volt dc electric (or electromagnetic clutch) bilge pump to 30 amps.**

- Water resistant switch and fuse holder allows mounting in exposed positions.
- Amber light shows that automatic mode is set, whilst red light shows whenever pump runs.

**Size:** 3 7/8" wide x 2 3/8" high (10cm x 6cm).

**Weight:** 1/4lb (0.1kg).

- 29140-0000** Illuminated Switch Panel, for 12 and 24 volt DC up to 30 amps complete with 5, 10, 20 and 30 amp fuses.

*Not available in the USA.*

## Electric Flexible Impeller Pumps



### Water Puppy

**Continuously rated duty bilge/sump pump.**

- 380 usgph (1430 lph) output at 3m (10ft) total head.
- Self-priming up to 4ft (1.2m) vertical lift..
- Simple design means fewer wearing parts - all user serviceable.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 1/2" NPT male threaded fittings, and for 1" (25mm) ID hose.

**Size:** 6 3/8" long x 4 3/4" wide x 3 1/2" high (16.2cm x 12.1cm x 8.9cm).

**Weight:** 6 1/2 lb (3kg).

- **18660-0121** 12 volt DC model, fuse 15 amp (Non CE).
- **6303-0001** Replacement Impeller.

For service and spare parts listing see [page 185](#).



### Commercial Duty Water Puppy

**High flow, continuously rated bilge pump offering good discharge head.**

- 470 usgph (1770 lph) output at 10ft (3m) total head.
- Self-priming up to 8ft (2.4m) vertical lift.
- Bilge debris presents no problem to this bronze bodied, flexible impeller design.
- Simple design means fewer wearing parts - all user serviceable.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).
- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 1" (25mm) ID hose, or 1/2" NPT male threads.

Do not use plumbing of less than 3/4" (19 mm) internal diameter.

**Size:** 7 1/8" long x 4 3/4" wide x 3 1/2" high (18.1cm x 12.1cm x 8.9cm).

**Weight:** 8lb (3.6kg).

- **18670-0123** 12 volt DC model, fuse 15 amp (Non CE).
- **18670-0243** 24 volt DC model, fuse 10 amp (Non CE).
- **23680-4003** 12 volt DC model, fuse 15 amp.
- **23680-4103** 24 volt DC model, fuse 10 amp.
- **6303-0003** Replacement Impeller.

For service and spare parts listing see [page 185](#).



### Utility Puppy 2000

**Continuous rated Utility Puppy 2000 offers high flow for bilge, deck wash and general purpose use, and ten minutes dry running.**

- 500 usgph (1920 lph) output at 10ft (3m) total head.
- Dry running for twenty minutes after initial use.
- Self-priming up to 4ft (1.2m) vertical lift.
- Bilge debris presents no problem to this bronze bodied, flexible impeller design.
- Simple design means fewer wearing parts - all user serviceable.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).

- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 3/4" male threads.

**Size:** 7 1/2" long x 4 3/4" wide x 3 1/2" high (19cm x 12cm x 9cm).

**Weight:** 9.7lb (3.4kg).

- **23920-2403** 12 volt DC BSP model, fuse 15 amp.
- **23920-2503** 24 volt DC BSP model, fuse 10 amp.
- **23920-9403** 12 volt DC NPT model, fuse 15 amp.
- **23920-9503** 24 volt DC NPT model, fuse 10 amp.

For service and spare parts listing see [page 185](#).



### Utility Puppy 3000

**Continuous rated heavy duty Utility Puppy 3000 offers very high flow for bilge, deck wash and general purpose use, and ten minutes dry running.**

- 680 usgph (2580 lph) output at 10ft (3m) total head.
- Dry running for ten minutes after initial use.
- Self-priming up to 8ft (2.4m) vertical lift.
- Mechanical seal for extra long life.
- Bilge debris presents no problem to this bronze bodied, flexible impeller design.
- Simple design means fewer wearing parts - all user serviceable.
- Complies with USCG 183.410 and ISO 8846 MARINE (Ignition Protection).

- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 3/4" male threads.

**Size:** 8 1/2" long x 4 3/4" wide x 3 1/2" high (22cm x 12cm x 9cm).

**Weight:** 8.2lb (4.0kg).

- **23920-2213** 12 volt DC BSP model, fuse 15 amp.
- **23920-2313** 24 volt DC BSP model, fuse 10 amp.
- **23920-9213** 12 volt DC NPT model, fuse 25 amp.
- **23920-9313** 24 volt DC NPT model, fuse 15 amp.

For service and spare parts listing see [page 185](#).

## Electric Flexible Impeller Pumps



### Maxi Puppy 3000

**High flow, continuously rated bilge pump offering good discharge head.**

- 660 usgph (2640 lph) output at 3m (10ft) total head.
- Self-priming up to 8ft (2.4m) vertical lift.
- Bilge debris presents no problem to this bronze bodied, flexible impeller design.
- Simple design means fewer wearing parts - all user serviceable.
- ISO 8846 MARINE (Ignition Protected).
- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 1" (25mm) ID hose, or 1/2" BSP male threads. Do not use pipework of less than 19 mm (3/4") internal diameter.

**Size:** 8 1/2" long x 4 3/4" wide x 3 1/2" high (22cm x 12cm x 9cm).

**Weight:** 8lb (3.6kg).

- **23610-3003** 12 volt DC model, fuse 20 amp.
- **23610-3103** 24 volt DC model, fuse 10 amp.
- **7273-0003** Replacement Impeller.

For service and spare parts listing see [page 185](#).



### Junior Puppy

**High discharge head continuously rated bilge pump.**

- 225 usgph (900 lph) output at 10ft (3m) total head.
- Self-priming up to 5ft (1.5m) vertical lift.
- Bilge debris presents no problem to this bronze bodied, flexible impeller design.
- Simple design means fewer wearing parts - all user serviceable.
- ISO 8846 MARINE (Ignition Protected).
- ISO 8849 MARINE (Bilge Pump Standard).

**Fitting:** Connections for 3/8" BSP male threads, or 19mm (3/4") ID hose.

**Size:** 7 1/8" long x 4 1/4" wide x 3 1/4" high (18cm x 11cm x 9 cm).

**Weight:** 6.6lb (3kg).

- **23670-4003** 12 volt DC model, fuse 15 amp.
- **23670-4103** 24 V model, fuse 10 amp.
- **SK400-0023** Service Kit, includes 9200-0003 Nitrile Impeller.

For service and spare parts listing see [page 185](#).



### Mini Puppy

**Compact continuously rated low flow pump.**

- 83 usgph (330 lph) output at 10ft (3m) total head.
- Self-priming up to 5ft (1.5m) vertical lift.
- Small bilge debris presents no problem to this Brass bodied pump.
- Simple design means fewer wearing parts - all user serviceable.
- ISO 8846 MARINE (Ignition Protected)
- ISO 8849 MARINE (Bilge Pump Standard)

**Fitting:** Connections for 3/8" BSP male threads, or 19mm (3/4") ID hose.

**Size:** 6" long x 4 3/4" wide x 3 1/2" high (15cm x 12 cm x 8cm).

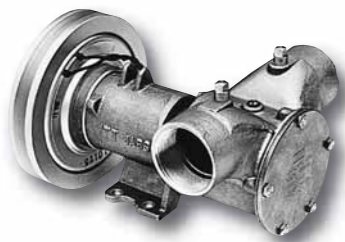
**Weight:** 2lb (0.9kg).

- **23620-4003** 12 volt DC model, fuse 5 amp.
- **23620-4103** 24 volt DC model, fuse 3 amp.
- **SK374-0003** Service Kit, includes 1414-0003 Nitrile Impeller.

For service and spare parts listing see [page 185](#).

## Engine Driven, Electric Clutch Pumps

Designed for North American Market



### 18330 Series Electric Clutch Pumps

*This manually activated clutch pump offers all the benefits of flexible impeller pumps with a high capacity flow rate and horizontally oriented ports.*

- 4710 usgph (18840 lph) at 10ft (3m) total head @ 1750 rpm.
- Self-priming to 15ft (4.5m) vertical lift.
- Mechanical face type shaft seal.
- Nitrile impeller.
- Two pulley options to accommodate either A and B size belts.
- Two single-row shaft ball bearings.

**Fitting:** 2" NPT.  
**Size:** 12-7/16" long x 5-15/16" wide x 5-3/4" high (excluding pulley)  
Pulley diameter - 7".

**Weight:** 24lb (11kg).

- 18330-0000** 12 volt DC Pump with double A groove Pulley.
- 18330-0040** 12 volt DC Pump with single B groove Pulley.
- 18330-0001** 24 volt DC Pump with double A groove Pulley.
- 18330-0041** 24 volt DC Pump with single B groove Pulley.

For service and spare parts listing see [pages 152-176](#).



### 11870 Series Electric Clutch Pumps

*This electrically activated clutch pump offers all the benefits of flexible impeller pumps with a substantial flow rate and horizontally oriented ports. The electric clutch offers convenient remote activation.*

- 3525 usgph (14100 lph) at 10ft (3m) total head @ 1750 rpm.
- Self-priming to 15ft (4.5m) vertical lift.
- Mechanical face type shaft seal.
- Nitrile impeller.
- Two pulley options to accommodate either A and B size belts.
- Double-row ball bearing.

**Fitting:** 1 1/4" NPT.  
**Size:** 8 3/16" long x 5 7/8" wide x 5 1/2" high (excluding pulley)  
Pulley diameter - 7".

**Weight:** 18lb (8kg).

- 11870-0005** 12 volt DC Pump with double A groove Pulley.
- 11870-0045** 12 volt DC Pump with single B groove Pulley.
- 11870-0006** 24 volt DC Pump with double A groove Pulley.
- 11870-0046** 24 volt DC Pump with single B groove Pulley.
- 11870-0007** 32 volt DC Pump with double A groove Pulley.

For service and spare parts listing see [pages 152-176](#).



### 50580 Series Electric Clutch Pumps

*Heavy duty bilge and deckwash pump belt driven from the engine, for leisure and commercial craft.*

- 1470 usgph (4880 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Can be remotely controlled from outside the engine room and can be automatically shut off by fitting a vacuum cut off switch.
- Neoprene impeller is fitted as standard.

**Fitting:** 1" NPT.  
**Size:** 6 1/2" long x 5" wide x 7" high (160mm x 120mm x 178mm).

**Weight:** 11lbs (5kg).

- 50580-9001** 12 volt DC 2A Pulley E/M Clutch, fuse 5 amp.
- 50580-9101** 24 volt DC 2A Pulley E/M Clutch, fuse 2.5 amp.
- 50580-9201** 12 volt DC 1B Pulley E/M Clutch, fuse 5 amp.
- 50580-9301** 24 volt DC 1B Pulley E/M Clutch, fuse 2.5 amp.

For service and spare parts listing see [pages 152-176](#).

## Engine Driven, Electric Clutch Pumps

Designed for European Market



### 50270 Series Electric Clutch Pumps

*Very heavy duty bilge and deckwash pump belt driven from the engine, for leisure and commercial craft.*

- 4100 usgph (16350 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Can be remotely controlled from outside the engine room and can be automatically shut off by fitting a vacuum cut off switch.
- Neoprene impeller is fitted as standard.

**Fitting:** 2" BSP internal thread/  
optional 2" flange.

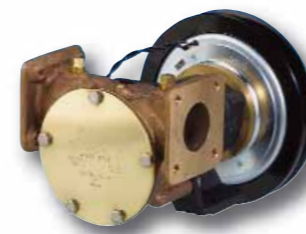
**Size:** 10" long x 7" wide x 7" high (264mm x 170mm x 178mm).

**Weight:** 27lb (12.2kg).

- 50270-X011** 12 volt DC 2A Pulley E/M Clutch, fuse 5 amp.
- 50270-X111** 24 volt DC 2A Pulley E/M Clutch, fuse 2.5 amp.
- 50270-X211** 12 volt DC 1B Pulley E/M Clutch, fuse 5 amp.
- 50270-X311** 24 volt DC 1B Pulley E/M Clutch, fuse 2.5 amp.

'X' = 0, flanged ports, 'X' = 2, BSP ports.

For service and spare parts listing see [pages 152-176](#).



### 50220 Series Electric Clutch Pumps

*Very heavy duty bilge, deckwash, and fire fighting pump belt driven from the engine, for leisure and commercial craft.*

- 2925 usgph (11700 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Can be remotely controlled from outside the engine room and can be automatically shut off by fitting a vacuum cut off switch.
- Neoprene impeller is fitted as standard.

**Fitting:** 1 1/2" flange

**Size:** 9 1/2" long x 6" wide x 7" high (239mm x 153mm x 178mm).

**Weight:** 25lbs (11.2kg).

- 50220-0011** 12 volt DC 2A Pulley E/M Clutch, fuse 5 amp.
- 50220-0111** 24 volt DC 2A Pulley E/M Clutch, fuse 2.5 amp.
- 50220-0211** 12 volt DC 1B Pulley E/M Clutch, fuse 5 amp.
- 50220-0311** 24 volt DC 1B Pulley E/M Clutch, fuse 2.5 amp.

For service and spare parts listing see [pages 152-176](#).



### 50200 Series Electric Clutch Pumps

*Very heavy duty bilge, deckwash, and firefighting pump belt driven from the engine, for leisure and commercial craft.*

- 2925 usgph (11700 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Can be remotely controlled from outside the engine room and can be automatically shut off by fitting a vacuum cut off switch.
- Neoprene impeller is fitted as standard.

**Fitting:** 1 1/2" BSP internal thread.

**Size:** 9 1/2" long x 6" wide x 7" high (239mm x 153mm x 178mm).

**Weight:** 25lbs (11.2kg).

- 50200-2011** 12 volt DC 2A Pulley E/M Clutch, fuse 5 amp.
- 50200-2111** 24 volt DC 2A Pulley E/M Clutch, fuse 2.5 amp.
- 50200-2211** 12 volt DC 1B Pulley E/M Clutch, fuse 5 amp.
- 50200-2311** 24 volt DC 1B Pulley E/M Clutch, fuse 2.5 amp.

For service and spare parts listing see [pages 152-176](#).



### 50580 Series Electric Clutch Pumps

*Heavy duty bilge and deckwash pump belt driven from the engine, for leisure and commercial craft.*

- 1470 usgph (4880 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Can be remotely controlled from outside the engine room and can be automatically shut off by fitting a vacuum cut off switch.
- Neoprene impeller is fitted as standard.

**Fitting:** 1" BSP internal thread

**Size:** 6 1/2" long x 5" wide x 7" high (160mm x 120mm x 178mm).

**Weight:** 11lbs (5kg).

- 50580-2001** 12 volt DC 2A Pulley E/M Clutch, fuse 5 amp.
- 50580-2101** 24 volt DC 2A Pulley E/M Clutch, fuse 2.5 amp.
- 50580-2201** 12 volt DC 1B Pulley E/M Clutch, fuse 5 amp.
- 50580-2301** 24 volt DC 1B Pulley E/M Clutch, fuse 2.5 amp.

For service and spare parts listing see [pages 152-176](#).

## Engine Driven, Manual Clutch Pumps

Designed for European Market



### 51270-9013 Manual Clutch Pumps

*This manually activated clutch pump offers all the benefits of flexible impeller pumps with a high capacity flow rate and horizontally oriented ports.*

- 4100 usgph (16350 lph) at 10ft (3m) total head @ 1500 rpm.
- Self-priming to 15ft (4.5m) vertical lift.
- Mechanical face type shaft seal.
- Nitrile impeller.
- Clutch pulley accommodates both A and B size belts.

- Two single-row shaft ball bearings.
- Fitting:** 2" NPT.
- Size:** 12<sup>7</sup>/<sub>16</sub>" long x 5<sup>15</sup>/<sub>16</sub>" wide (excluding pulley) x 8<sup>7</sup>/<sub>8</sub>" high; Pulley dia. 7".
- Weight:** 24lb (11kg).

**51270-9013** Pump with Nitrile Impeller, Full Cam and Mechanical Seal.

For service and spare parts listing see [pages 152-176](#).



### 51200-9013 Manual Clutch Pumps

*This manually activated clutch pump offers all the benefits of flexible impeller pumps with a substantial flow rate.*

- 2925 usgph (11700 lph) at 10ft (3m) total head @ 1500 rpm.
- Self-priming to 15ft (4.5m) vertical lift.
- Mechanical face type shaft seal.
- Nitrile impeller.
- Clutch pulley accommodates both A and B size belts.

- Double-row ball bearing.
- Fitting:** 1<sup>1</sup>/<sub>2</sub>" NPT.
- Size:** 9<sup>5</sup>/<sub>8</sub>" long x 5<sup>15</sup>/<sub>16</sub>" wide (excluding pulley) x 8<sup>7</sup>/<sub>8</sub>" high; Pulley diameter - 7".
- Weight:** 18lb (8kg).

**51200-9013** Pump with Nitrile Impeller, Full Cam and Mechanical Seal.

For service and spare parts listing see [pages 152-176](#).



### 6590-0005 Manual Clutch Pumps

*This manually activated clutch pump offers all the benefits of flexible impeller pumps with a substantial flow rate and horizontally oriented ports.*

- 3525 usgph (14100 lph) at 10ft (3m) total head @ 1750 rpm.
- Self-priming to 10ft (3m) vertical lift.
- Nitrile impeller.
- Clutch pulley accommodates a B size belt.
- Double-row ball bearing.

- Fitting:** 1<sup>1</sup>/<sub>4</sub>" NPT.
- Size:** 8<sup>1</sup>/<sub>16</sub>" long x 5<sup>1</sup>/<sub>2</sub>" wide (excluding pulley) x 8<sup>1</sup>/<sub>8</sub>" high; Pulley diameter - 6".
- Weight:** 18lb (8kg).

**6590-0005** Pump with Nitrile Impeller, Full Cam and Mechanical Seal.

For service and spare parts listing see [pages 152-176](#).



### 51580-9001 Manual Clutch Pumps

*This manually activated clutch pump offers all the benefits of flexible impeller pumps with a moderate flow rate and horizontally oriented ports.*

- 1470 usgph (4880 lph) at 10ft (3m) total head @ 1500 rpm.
- Self-priming to 15ft (4.5m) vertical lift.
- Mechanical face type shaft seal.
- Neoprene impeller.
- Clutch pulley accommodates both A and B size belts.
- Spaced sealed for life bearings.

- Fitting:** 1" NPT.
- Size:** 7<sup>13</sup>/<sub>16</sub>" long x 4<sup>3</sup>/<sub>4</sub>" wide (excluding pulley) x 7<sup>7</sup>/<sub>16</sub>" high; Pulley diameter - 6".
- Weight:** 9lb (4kg).

**51580-9001** Pump with Manual Clutch.

For service and spare parts listing see [pages 152-176](#).

## Engine Driven, Manual Clutch Pumps

Designed for European Market



### 51270 Series Manual Clutch Pumps

*Very heavy duty bilge, deckwash, and fire-fighting pump belt driven from the engine, for leisure and commercial craft.*

- 4100 usgph (16350 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Dependable manual control will operate even under the toughest conditions.
- Clutch pulley will accommodate both A and B type pulley belts.

- Easily serviced and maintained.
- Neoprene impeller is fitted as standard.
- Fitting:** 2" BSP Internal Thread/ Optional 2" Flange
- Size:** 12" long x 7" wide x 9" high (316mm x 170mm x 224mm).
- Weight:** 25lbs (11kg).

**51270-0011** Manual Clutch, flanged ports.

**51270-2011** Manual Clutch, BSP ports.

For service and spare parts listing see [pages 152-176](#).



### 51220 Series Manual Clutch Pumps

*Very heavy duty bilge, deckwash, and fire-fighting pump belt driven from the engine, for leisure and commercial craft.*

- 2725 usgph (11700 lph) at 10ft (3ft) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Dependable manual control will operate even under the toughest conditions.

- Clutch pulley will accommodate both A and B type pulley belts.
- Easily serviced and maintained.
- Neoprene impeller is fitted as standard.
- Fitting:** 1<sup>1</sup>/<sub>2</sub>" flange.
- Size:** 11<sup>1</sup>/<sub>2</sub>" long x 6" wide x 9" high (292mm x 152mm x 226mm).
- Weight:** 22lbs (10kg).

**51220-0011** Manual Clutch

For service and spare parts listing see [pages 152-176](#).



### 51200 Series Manual Clutch Pumps

*Heavy duty bilge and deckwash pump belt driven from the engine, for leisure and commercial craft.*

- 2925 usgph (11700 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Dependable manual control will operate even under the toughest conditions.
- Clutch pulley will accommodate both A and B type pulley belts.

- Easily serviced and maintained.
- Neoprene impeller is fitted as standard, optional nitrile impeller available.
- Fitting:** 1<sup>1</sup>/<sub>2</sub>" BSP internal thread.
- Size:** 9<sup>1</sup>/<sub>2</sub>" long x 6" wide x 9" high (244mm x 150mm x 226mm).
- Weight:** 18lbs (8kg).

**51200-2011** Manual Clutch.

For service and spare parts listing see [pages 152-176](#).



### 51580 Series Manual Clutch Pumps

*Heavy duty bilge and deckwash pump belt driven from the engine, for leisure and commercial craft.*

- 1470 usgph (4880 lph) at 10ft (3m) total head @ 1,500 rpm.
- Self-priming up to 15ft (4.5m) vertical lift.
- Bilge debris present no problems to this robust bronze bodied flexible impeller pump.
- Dependable manual control will operate even under the toughest conditions.
- Clutch pulley will accommodate both A and B type pulley belts.

- Easily serviced and maintained.
- Neoprene impeller is fitted as standard.
- Fitting:** 1" BSP internal thread.
- Size:** 8" long x 5" wide x 7<sup>1</sup>/<sub>2</sub>" high (198mm x 120mm x 189mm).
- Weight:** 11lbs (5kg).
- 51580-2001** Manual Clutch.

For service and spare parts listing see [pages 152-176](#).



### Hydro Air Switch

*Ultra reliable bilge switch, which will automatically operate bilge pumps once water level reaches 2 1/4" (55mm). As water rises in the bilge, air pressure in the bell and tube increases, operating a diaphragm switch in the switch unit. All electrical components are clear of the water and no sensitive electronics are used.*

- Proven highly reliable design using new moulding techniques.
- Styling compliments modern interiors.
- Automatic operation of bilge pumps or audible and visual high water level alarms.

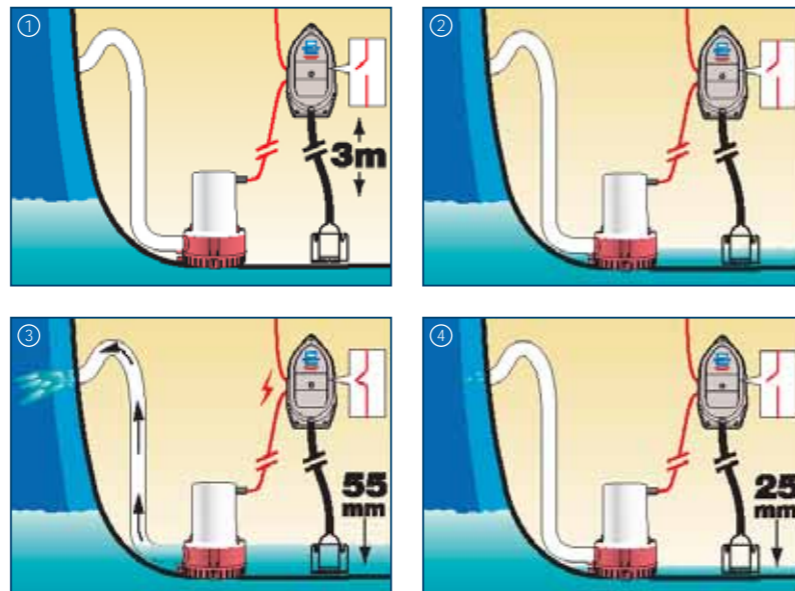
- Turns on at 2 1/4" (55mm), off at 1" (25mm).
  - Diaphragm switch can be mounted up to 10ft (3m) above plastic airbell.
- Size:** Switch - 6" x 1 3/4" x 3" (15.3cm long x 4.5cm high x 7.5cm wide).  
Airbell - 2 3/8" x 1 1/4" x 4" (6cm long x 3cm wide x 10cm high).

**Weight:** Switch - 1/2lb (0.2kg).

**59400-0012** Hydro Air Switch for 12 volt DC, up to 20 amps.

**59400-0024** Hydro Air Switch for 24 volt DC, up to 10 amps.

**59407-1000** Replacement Air Bell.



### Bilge Master

*Water resistant Master Panel with 3-way switch and front access fuse holder for any automatically controlled 12 or 24 Volt dc electric (or electromagnetic clutch) bilge pump to 30 amps.*

- Water resistant switch and fuse holder allows mounting in exposed positions.
- Amber light shows that automatic mode is set, whilst red light shows whenever pump runs.

*Not available in the USA.*

**Size:** 3 7/8" wide x 2 3/8" high (10cm x 6cm).

**Weight:** 1/4lb (0.1kg).

**29140-0000** Illuminated switch panel, for 12 and 24 Volt dc up to 30 amps complete with 5, 10, 20 and 30 amp fuses.



### Y-Valve

*Robust Y-Valve for use in bilge applications. Allows two bilge sections to be emptied by one pump.*

- Rotating ports allow routing of hoses onto the valve from almost any direction.
- Can be operated through bulkhead by use of optional handle extension.
- Waste and corrosion resistant construction throughout.
- Can be padlocked.



Padlock NOT included

**Fitting:** Connections for with both 1 1/2" (38mm) ports and extra 1" (25mm) straight inlet port.

**Size:** 7 5/8" long x 7 1/4" wide x 4 5/8" high (20cm x 19cm x 12cm).

**Weight:** 2lb (0.9kg).

- 45490-1000** Y-Valve.
- 45500-1000** Handle Extension Kit.
- 45488-0000** Service Kit.
- 45493-0000** Replacement Handle.
- 18753-0661** Replacement Ports Kit.

### Bilge Strainers with Non-return Valves

*Stop bilge debris blocking inlet suction hose and reduces the risk of debris entering and blocking the pump.*

- Available to suit 3/4", 1" and 1 1/2" (19mm, 25mm and 38mm) ID hose.
- Non-return valve fitted to stop bilge water draining back when pumping stops.
- Repositional ports allow horizontal, vertical or sideways hose leads.
- Easily removable strainer plate for cleaning.
- Corrosion resistant materials throughout.



**Fitting:** Connections for 3/4", 1" or 1 1/2" (19mm, 25mm or 38mm) ID hose.

**Size:** 6 3/4" long x 2 3/4" wide x 2 1/2" high (17cm x 7.2cm x 6cm).

**Weight:** 1/4 lb (0.1 kg).

- 29290-1020** Bilge Strainer for 3/4" (19mm) ID Hose.
- 29290-1000** Bilge Strainer for 1" (25mm) ID Hose.
- 29290-1010** Bilge Strainer for 1 1/2" (38mm) ID Hose.

### Vacuum Switch

*Protects any 12 or 24v dc electric, or electromagnetic clutch, bilge pump up to 15 amp from dry running drainage - especially flexible impeller designs.*

- Manual start, automatic stop - remote start possible.
- Vacuum sensor shuts off power to pump motor or clutch when bilges are clear.
- Simply mounts between bilges and pump.
- Some Jabsco pumps have integral mounting point.

**Fitting:** Connection for 1/4" female thread and supplied with 1/4" x close nipple.

Suitable for 12 and 24 volt DC, 220 volt AC, up to 15 amp, 110 volt AC up to 10 amp. For remote start, install 15 amp push button next to Master Switch.

**Size:** 4" diameter x 3 1/2" high (11cm x 9cm).  
**Weight:** 1 1/2lb (0.7kg).

**4732-0000** Vacuum Switch.



### WARNING

Jabsco Vacuum Switch is not ignition protected, do not install where flammable vapors are present.