

# Submersible Cartridge Bilge Pumps

**ALL-IN-ONE MOTOR, EASY REPLACEMENT AND CLEANING**

**Bilge pump cleaning and maintenance no longer call for complete disassembly. You can now leave the pump casing attached to both the boat and the hoses – assuming you own one of Johnson Pump's Cartridge bilge pumps.**

Cartridge bilge pumps from Johnson Pump can be removed for cleaning or replacement without the use of a single tool. Lift a tab on the top, give the cartridge a twist and pull it out; that's all there is to it. The cartridge contains an all-in-one motor/impeller unit with no loose parts.



## **Water Cooled For Extended Service**

The cartridge pumps are assembled in the United States and the new line encompasses five compact pumps, each for a different capacity need. All of them use remarkably little electricity for the amount of water they pump. Their efficient motors also provide increased service life, thanks in part to an ingenious solution which circulates the discharge water around the motor for cooling.

## **Features & Benefits**

- All-in one motor/impeller unit
- No tools needed for maintenance
- Extremely energy efficient
- Water cooled motor for long service life
- Five models for different capacity needs
- Can be equipped with a bilge pump switch for automatic operation
- Meets the strict international standard, ISO 8849 Marine

### Designed for a wide variety of uses

The Cartridge Pumps 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. The 500 GPH, 750 GPH, and 1000 GPH pumps comes 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.

### Technical specifications and capacity data

Based on water at 20°C

| MODEL                             | 500 GPH                      | 750 GPH                      | 1000 GPH                     | 1250 GPH                     |
|-----------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| HOSE SIZE                         | 3/4"                         | 3/4"                         | 3/4"                         | 1 1/8"                       |
| CAPACITY STRAIGHT (13.6V)         | 40 L/MIN/630 GPH             | 50 L/MIN/800 GPH             | 66 L/MIN/1050 GPH            | 79 L/MIN/1250 GPH            |
| CAPACITY 3FT (0.9 M) HEAD (13.6V) | 33 L/MIN/525 GPH             | 44 L/MIN/700 GPH             | 60 L/MIN/950 GPH             | 67 L/MIN/1060 GPH            |
| VOLTAGE                           | 12 V DC                      | 12 V DC                      | 12 V DC                      | 12 V DC                      |
| AMPERAGE                          | 2.5 A                        | 3 A                          | 3.2 A                        | 3 A                          |
| FUSE SIZE                         | 5 A                          | 5 A                          | 5 A                          | 5 A                          |
| HEIGHT                            | 112 MM                       | 112 MM                       | 112 MM                       | 112 MM                       |
| MAX DIA                           | 70 MM                        | 70 MM                        | 70 MM                        | 70 MM                        |
| WEIGHT                            | 0.27 KG                      | 0.27 KG                      | 0.27KG                       | 0.32 KG                      |
| BODY                              | THERMOPLASTIC                | THERMOPLASTIC                | THERMOPLASTIC                | THERMOPLASTIC                |
| SHAFT SEAL                        | LIP SEAL                     | LIP SEAL                     | LIP SEAL                     | LIP SEAL                     |
| WIRE SIZE                         | 16 GA (1.3 MM <sup>2</sup> ) | 16 GA (1.3 MM <sup>2</sup> ) | 16 GA (1.3 MM <sup>2</sup> ) | 16 GA (1.3 MM <sup>2</sup> ) |
| PART NO.                          | 32-1450-01                   | 32-1550-01                   | 32-1650-01                   | 32-1750-01                   |
| PART NO. US                       | 32503                        | 32703                        | 32903                        | 42123                        |



500 - 1000 GPH



1250 GPH

### Accessories

**Ultima Switch** With detector cells that are totally sealed, 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. Ultima Switch is rated to handle pumps up to 20 amps at 12 or 24 volts.



**Bilge Alert - High Water Alarm with Ultima Switch** High water alarm with Ultima Switch featuring digital technology using the patented Mirus field effect cell. 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 (8 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.



### Automatic Float Switch AS888

Equipped with 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 Johnson Pump bilge pump through the clip on "T-slot" and can be used with 6, 12, 24 or 32V systems.



**Control Panel ON-AUTO-OFF** 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 has an integrated fuse holder and operating light. Note! Fuses are not included.

