

# 1600, 2200, 4000 GPH

HIGH CAPACITY SUBMERSIBLE BILGE PUMPS

**When you're looking for a high performance, Heavy Duty Bilge Pump, take a good look first at the SPX FLOW Johnson Pump line of high quality, DC bilge pumps.**

The Heavy Duty Bilge Pumps 4000, 2200 and 1600 GPH have been designed to exceed tough international, commercial standards.

Fully submersible, they have pumping capacities of as much as 252 l/min for the 4000 GPH and down to 100 l/min for the 1600 GPH and they are available in both 12V and 24V versions for a variety of bilge pumping hookups.

Wetted parts are made of high-impact, non-corrosive thermoplastic; the shaft of stainless steel. Together with a liquid-cooled, 12-pole, double ball-bearing equipped motor, these features ensure safe operation and years of long service. The motor shaft is sealed off by a lip seal on the 1600 GPH. On the 4000 and 2200 GPH there is a mechanical seal that eliminates shaft wear while providing service accessibility at the same time.

The impeller design has been carefully tested and optimized to provide reliable flow and maximize head.

Because the pumps snap into a universal mounting bracket/inlet screen, they can easily replace most similar bilge pumps.

The 4000, 2200 and 1600 GPH pumps include a removable check valve.



### Features & Benefits

- 12V and 24V versions
- Removable check valve included
- Heavy duty, 12-pole double ball bearing motor
- Liquid cooled for extended motor life
- Quality engineered mechanical/lip seal
- Automatic operation with optional float switch
- ISO 8849 Marine and CE standards
- Easily interchangeable with most similar bilge pumps

### Technical specifications and capacity data

	1600 GPH	2200 GPH	4000 GPH
SHAFT	SS2343	SS2343	SS2343
WIRE SIZE	16 GA (1.3 MM <sup>2</sup> )	16 GA (1.3 MM <sup>2</sup> )	14 GA (2 MM <sup>2</sup> )
MAX DIA	108 MM - 4.25"	108 MM - 4.25"	121 MM - 4.8"
MAX HEIGHT	149 MM - 5.86"	177 MM - 7"	216 MM - 8.5"
WEIGHT	1.3 KG - 2.75 LBS	2.25 KG - 4.96 LBS	2.45 KG - 5.40 LBS



PART NO.	PART NO. US	PUMP MODEL	CAPACITY 0.9 M HEAD (13.6V/27.2V)	CAPACITY STRAIGHT (13.6V/27.2V)	AMPERAGE	FUSE SIZE	HOSE SIZE
32-1600-01	1600-04	1600 12V	98 L/MIN - 1550 GPH	100 L/MIN - 1600 GPH	7A	10A	1 1/8" & 1 1/4"
32-1600-02	16084-00	1600 24V	98 L/MIN - 1550 GPH	100 L/MIN - 1600 GPH	3.5A	6A	1 1/8" & 1 1/4"
32-2200-01	22004	2200 12V	120 L/MIN - 1900 GPH	130 L/MIN - 2060 GPH	7.5A	12A	1 1/8" & 1 1/4"
32-2200-02	22084	2200 24V	120 L/MIN - 1900 GPH	130 L/MIN - 2060 GPH	4.5A	6A	1 1/8" & 1 1/4"
32-4000-01	40004	4000 12V	164 L/MIN - 2600 GPH	252 L/MIN - 4000 GPH	15A	25A	1 1/2" & 2"
32-4000-02	40084	4000 24V	164 L/MIN - 2600 GPH	252 L/MIN - 4000 GPH	7.5A	15A	1 1/2" & 2"

### 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 all Johnson Pump submersible pumps up to 20 amps at 12 and 10 amps at 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 SPX FLOW 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. Fuses are not included.

