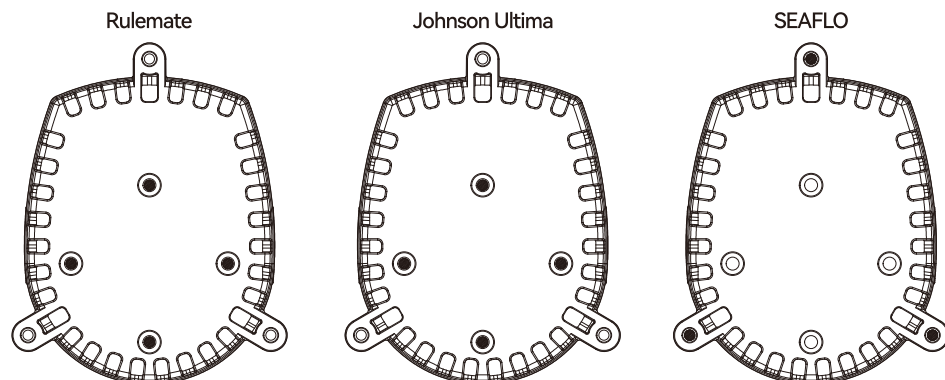
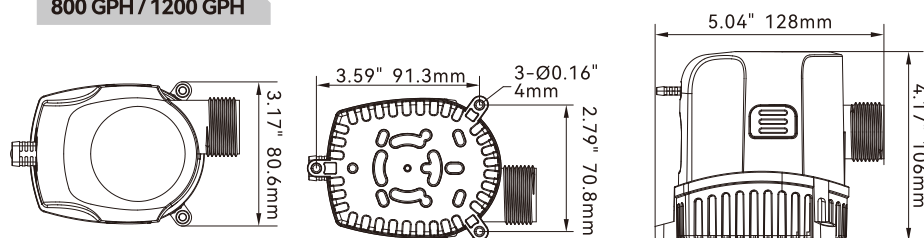


1500 GPH / 2000 GPH

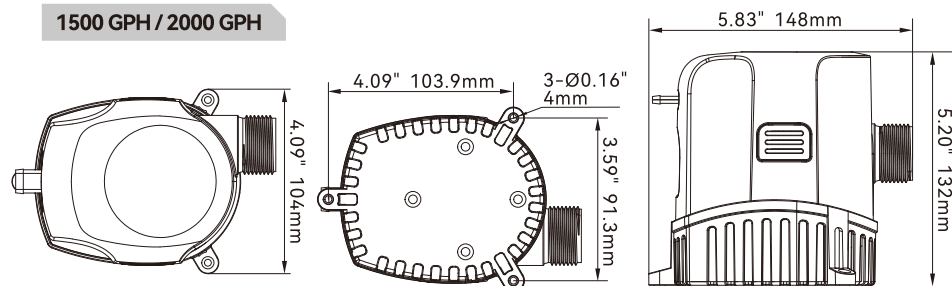


DIMENSION DRAWING

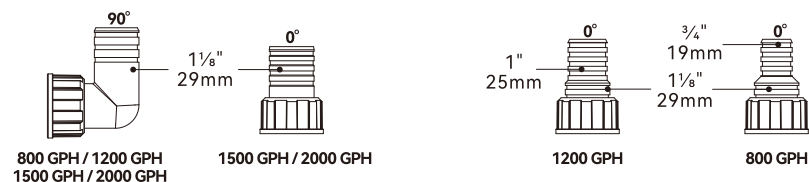
800 GPH / 1200 GPH



1500 GPH / 2000 GPH



STANDARD ACCESSORIES



SEAFLO[®]

Auto Bilge Pump Manual-17 Series



PURPOSE OF THIS MANUAL

The purpose of this manual is to provide necessary information for product installation, operation and maintenance.

⚠ CAUTION: Read this manual carefully before installing, using or servicing this product. Failure to follow the instructions within this manual could result in explosion, property damage, severe personal injury and/or death.

USER SAFETY

General safety rules. These are safety rules that apply:

- Always keep work area clean.
- Pay attention to the risks presented by gas and vapors in the work area.
- Avoid all electrical dangers. Pay attention to the risks of electric shock or arc flash hazards.
- Always bear in mind the risk of drowning, electrical accidents and burn injuries.

⚠ DANGER: The SEAFLO bilge pump has been carefully designed to exhaust standing water only. These pumps are not intended for damage control. Bilge pump capacities may not be sufficient to prevent flooding from rapid accumulation of water due to storms, rough weather and/or rapid leaks created by hull damages and/or unsafe navigational conditions.

⚠ WARNING: To eliminate personal injury or damage to property during installation, servicing and maintenance, make sure to disconnect electrical power. This pump is designed to remove standing bilge water only and should not be used to pump petroleum products such as gasoline, oil, or flammable liquids.

Make sure to use the appropriate fuse size recommended by your pump model. Using the wrong fuse can lead to personal injury, property damage and fire hazard.

DESCRIPTIVE

The SEAFLO bilge pump is a state-of-the-art automatic bilge pump that uses advanced electronic sensing technology to detect the presence of water in the bilge area of a boat and consequently discharge of that water. The pump is based on capacitive coupling sensing technology, which precisely measures water levels by detecting changes in capacitance. The SEAFLO bilge pump features an outstanding design and is easy to install.

FEATURES & BENEFITS

- Compact, all-in-one unit
- Advanced capacitive coupling sensing technology
- No float switch required
- Pump turns on when water level rises and shuts off when water is removed
- Snap-off strainer for easy cleaning
- Removable check valve included as standard
- Submersible and ignition protected
- Quick and easy installation

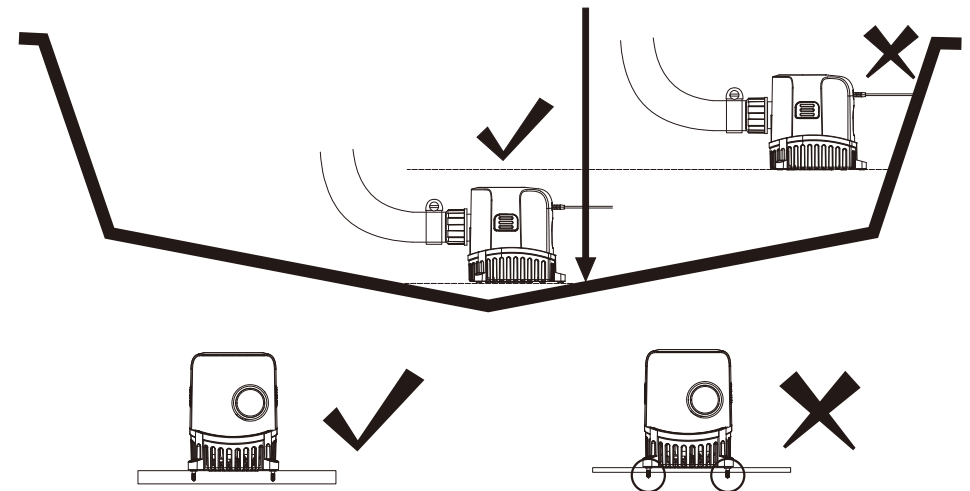
TECHNICAL PARAMETERS

Model	Flow rate	Volts	Current	Fuse	Head	Outlet diameter
SFBP1-G800-17	800 GPH	12 V	3 A	6 A	2.5 m	3/4"(19 mm) 1-1/8"(29 mm)
SFBP2-G800-17	800 GPH	24 V	1.5 A	3 A	2.5 m	3/4"(19 mm) 1-1/8"(29 mm)
SFBP1-G1200-17	1200 GPH	12 V	4 A	8 A	3 m	1"(25 mm) 1-1/8"(29 mm)
SFBP2-G1200-17	1200 GPH	24 V	2 A	4 A	3 m	1"(25 mm) 1-1/8"(29 mm)
SFBP1-G1500-17	1500 GPH	12 V	7 A	14 A	3 m	1-1/8"(29 mm)
SFBP2-G1500-17	1500 GPH	24 V	3.5 A	7 A	3 m	1-1/8"(29 mm)
SFBP1-G2000-17	2000 GPH	12 V	9 A	18 A	4 m	1-1/8"(29 mm)
SFBP2-G2000-17	2000 GPH	24 V	4.5 A	9 A	4 m	1-1/8"(29 mm)

INSTALLATION LOCATION

The bilge pump inlet shall be located so that excess bilge water can be removed from the bilge at static floating position, and at maximum conditions created by the boat's motion, heel, and trim.

1. When installing the SEAFLO bilge Pump, make sure that pump is clear of all obstacles, especially near the detector area.
2. Mount the pump level and parallel to the bottom of the boat.
3. Bilge pumps shall be mounted in an accessible location to permit servicing and cleaning of the intake and/or screening.



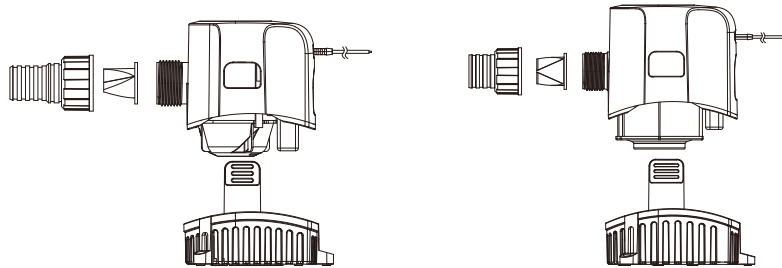
MOUNTING INSTRUCTIONS

1. Remove the pump from the strainer by depressing the two side tabs and pulling the strainer from pump body. Use the strainer to mark mounting holes. In order to avoid drilling through the hull of the vessel, set your drill to the appropriate depth for the pilot holes. Drill your pilot hole.
2. We recommend using #8 stainless steel flathead screws of an adequate length as to secure the pump but not penetrate the entire thickness of the hull. Use a flexible sealant in the screw holes to prevent water from penetrating the screw holes.
3. After the strainer is mounted down, place pump body onto strainer making sure that the side tabs lock onto pump body.
4. Connect the hose to the port and use stainless steel hose clamps to secure it. If installing the optional check valve, make sure to install the check valve before installing the hose and ports.
5. Make sure to avoid loops or bends in the hose. Support hose if necessary. It is important that the hose be constantly rising and not be allowed to dip below the outlet port as this may cause an airlock situation. For maximum performance use smooth bore, reinforced hose.

NOTE:

1. The check valve supplied with your SEAFLO bilge pump is used to prevent the backflow of water. The utilization of the check valve requires you to be mindful of its functionality. The check valve material is made of rubber material to be used for water applications only. Also, the check valve will reduce the flow of the pump. If flow is critical to the application of the pump, it is recommended that the check valve not be used. Also, when winterizing your boat, remove the check valve to avoid ice formation and/or degradation of the check valve.

2. Periodically remove, clean and inspect bilge pump, check valve and its surroundings for damage or debris that may reduce the performance of the pump.



800 GPH / 1200 GPH

1500 GPH / 2000 GPH

APPLICATION DIAGRAM

Automatic Operating Modes:

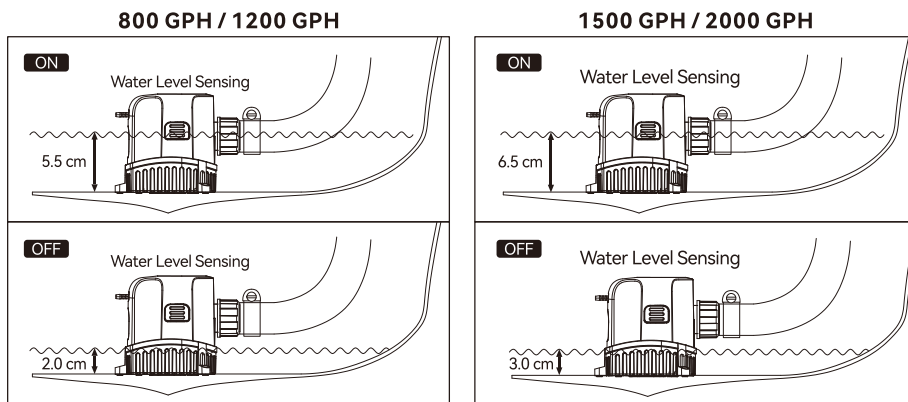
These bilge pumps feature automatic high or low water sensing modes.

800 GPH / 1200 GPH:

The pump starts when the water level reaches 5.5 cm (2.17 in) and stops when the water level drops below 2 cm (0.79 in).

1500 GPH / 2000 GPH:

The pump starts when the water level reaches 6.5 cm (2.56 in) and stops when the water level drops below 3 cm (1.18 in).



PERFORMANCE

SPECIFICHE PER 12 VOLT:

Model	Automotive Fuse Required (amps)	NRV Fitted	ABYC Specifications 13.6 Volts DC (GPH=Gallons Per Hour)			ISO Specifications 12 Volts DC (LPH=Liters Per Hour)			Max Head (ft@13.6V /m@12V)
			0 ft.Head GPH/amps	3.3 ft.Head GPH/amps	6.7 ft.Head GPH/amps	0m Head LPH/amps	1m Head LPH/amps	2m Head LPH/amps	
SFBP1-G800-17	6	N	812/3.3	684/3.2	295/3.1	2842/3.2	2208/3.1	1068/3	9.2/2.5
	6	Y	779/3.3	649/3.2	281/3.1	2782/3.2	1920/3.1	940/3	9.2/2.5
SFBP1-G1200-17	8	N	1182/4.6	798/4.5	551/4.3	3922/4.4	2696/4.4	1860/4.3	11.2/3
	8	Y	916/4.6	628/4.5	434/4.3	3093/4.4	2120/4.4	1465/4.3	11.2/3
SFBP1-G1500-17	14	N	1495/7.2	1286/7.1	613/6.7	5625/7	4447/6.9	2130/6.6	11.2/3
	14	Y	1165/7.2	1060/7.1	510/6.7	4687/7	3750/6.9	1775/6.6	11.2/3
SFBP1-G2000-17	18	N	2015/9.6	1412/9.4	1034/8.6	7212/9.4	4815/9.1	3528/8.4	14.5/4
	18	Y	1692/9.6	1186/9.4	868/8.5	6058/9.4	4041/9.1	2956/8.4	14.5/4

SPECIFICHE PER 24 VOLT:

Model	Automotive Fuse Required (amps)	NRV Fitted	ABYC Specifications 27.2 Volts DC (GPH=Gallons Per Hour)			ISO Specifications 24 Volts DC (LPH=Liters Per Hour)			Max Head (ft@27.2V /m@24V)
			0 ft.Head GPH/amps	3.3 ft.Head GPH/amps	6.7 ft.Head GPH/amps	0m Head LPH/amps	1m Head LPH/amps	2m Head LPH/amps	
SFBP2-G800-17	3	N	821/1.7	693/1.6	299/1.5	2862/1.6	2212/1.5	1077/1.4	9.2/2.5
	3	Y	787/1.7	656/1.6	285/1.5	2788/1.6	1932/1.5	952/1.4	9.2/2.5
SFBP2-G1200-17	4	N	1192/2.3	801/2.2	559/2.1	3936/2.2	2702/2.2	1875/2.1	11.2/3
	4	Y	926/2.3	635/2.2	440/2.1	3098/2.2	2132/2.2	1471/2.1	11.2/3
SFBP2-G1500-17	7	N	1502/3.6	1289/3.5	618/3.3	5645/3.5	4467/3.4	2140/3.3	11.2/3
	7	Y	1171/3.6	1068/3.5	516/3.3	4692/3.5	3762/3.4	1782/3.3	11.2/3
SFBP2-G2000-17	9	N	2021/4.8	1423/4.7	1051/4.3	7226/4.7	4831/4.5	3544/4.2	14.5/4
	9	Y	1702/4.8	1196/4.7	875/4.3	6063/4.7	4052/4.5	2961/4.2	14.5/4

INTELLIGENT

SEAFLO bilge pumps have built-in programming that can sense when the pump is running but not pumping water to protect the pump, vessel, and the vessel's batteries. If debris fouls the sensor or the pump becomes air-bound, the pump will stop running and begin to "check" every 2.5 minutes to see if it is pumping water. Once the debris is removed, the pump will revert to its normal operation.

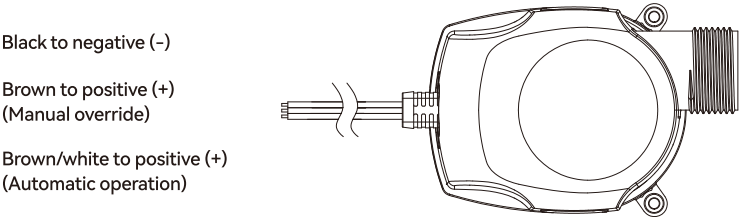
Our SEAFLO bilge pumps contain a fail-safe back-up program that measures the amount of work the motor is performing. If scale or wet tissue adheres to the pump sensor, it could "trick" the pump into thinking water remained in the bilge which could deplete the vessel's battery.

When the circuit board senses the motor is running but doing little work(not pumping water) for longer than fifteen seconds, the pump will enter into a cycling mode in the same fashion as the computerized pumps.

The pump will sense motor operation every 2.5 minutes and if it senses it is pumping water it will continue to run until the water is drained from the bilge.

After the debris is removed, the pump will automatically revert to the level sensing mode.

WIRING INSTRUCTIONS:

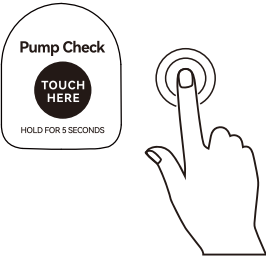


Refer to the wiring diagram below. Use appropriately sized connectors for the wires. The wiring connections should be made with water-resistant, permanent terminals. Liquid electrical tape should be used to coat the terminals.

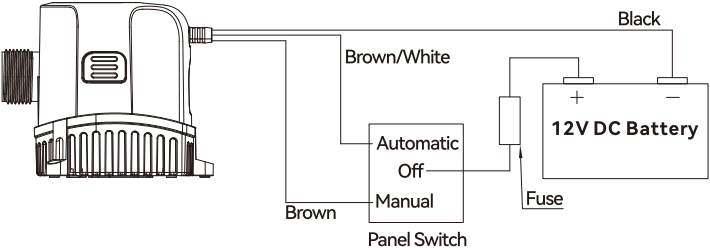
SEAFLO Model	Wire Size
SFBP1-G800-17/SFBP2-G800-17	18-gauge wire
SFBP1-G1200-17/SFBP2-G1200-17	18-gauge wire
SFBP1-G1500-17/SFBP2-G1500-17	16-gauge wire
SFBP1-G2000-17/SFBP2-G2000-17	16-gauge wire

The mount connections should be above the highest water level. The warranty will become void on this product if any electrical cord is cut back more than 3 inches, if electrical splices become submerged, failure to properly fuse or if pump is installed contrary to instructions or warnings.

You may install a three way switch panel that will allow the pump to be in manual or automatic mode. Make sure to fuse the pump. The fuse holder should be between positive battery terminal and three way panel switch. Make sure to use the appropriate fuse size for the models. To check the operation of the pump, place your finger over the circular areas on the back of the pump. After a short delay (about 5 seconds), the pump should turn on. If you remove your finger from the circle, the pump should turn off.

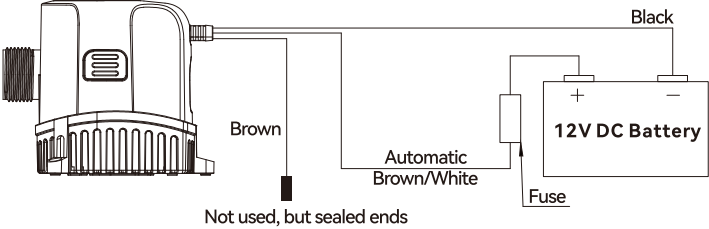


WIRING SCHEME



If you are using a 3-way switch, you can wire your pump to operate in the manual over-ride or automatic operation. As shown in the diagram, connect the black (-) ground wire to the negative terminal of the battery. For manual over-ride operation, connect the brown wire from the pump to the switch panel. For automatic operation, connect the brown wire with white tracer to the switch panel. Make sure to connect an appropriate in line fuse coming from the positive terminal of the battery to the switch panel as shown.

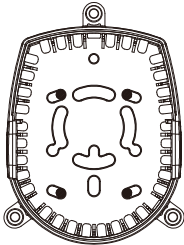
WIRING SCHEME WITHOUT PANEL SWITCH



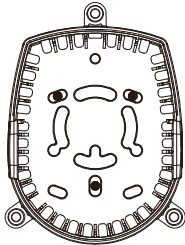
MOUNTING PATTERN COMPATIBILITY

800 GPH / 1200 GPH

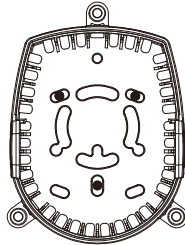
Rulemate (Old)



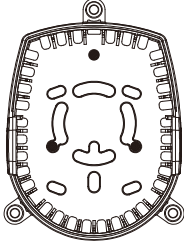
Sahara Mk1



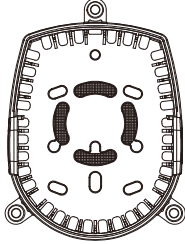
Johnson Ultima



Shoreline



Rulemate (New)/DA/SA



SEAFLO

