SEAFLO SFDP1-055-060-55

SEAFLO 55-Series 12V DC Diaphragm Water Pump Instruction Manual

Model: SFDP1-055-060-55

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your SEAFLO 55-Series 12V DC Diaphragm Water Pump. This pump is designed for reliable water delivery in various applications, including RVs, marine vessels, and off-grid water systems. Please read this manual thoroughly before installation and operation to ensure safe and efficient use.



Image 1.1: SEAFLO 55-Series Diaphragm Water Pump and accessories.

2. Safety Information

- Always disconnect power before installing, servicing, or performing maintenance on the pump.
- Ensure all electrical connections are properly insulated and protected from moisture.
- Do not pump flammable liquids. This pump is designed for water only.
- Verify that the voltage and amperage of your power source match the pump's specifications.
- Install the pump in a dry, well-ventilated area, protected from extreme temperatures.
- Use appropriate plumbing fittings and ensure all connections are watertight to prevent leaks.

3. Product Overview and Features

The SEAFLO 55-Series Diaphragm Pump is a high-performance 12V DC pump designed for consistent and reliable water flow. Key features include:

- **High Flow Rate:** Delivers 5.5 Gallons Per Minute (GPM) with a 5-chamber diaphragm design, capable of supplying up to six fixtures simultaneously.
- **Heavy-Duty Pressure Switch:** Provides precise pressure control and stable performance, ensuring automatic on/off operation when faucets are opened or closed.
- **Built-In Bypass:** Reduces rapid cycling and allows water to flow back from the outlet to the inlet, extending pump life and ensuring smooth operation.
- **Self-Priming:** Achieves a suction lift of up to 9 feet (2.7M), allowing flexible mounting options away from the water source.
- **Dry Run Capability:** Designed to run dry without damage, offering peace of mind.
- **Quiet Operation:** Operates at a noise level comparable to a ceiling fan, with a semi-rigid rubber base to minimize vibrations.
- **Durable Construction:** Made with Santoprene for the diaphragm and EPDM for the valves, providing abrasion and corrosion resistance for both freshwater and saltwater applications.



Image 3.1: The 5-chamber diaphragm design ensures high flow and reduced cycling.



Image 3.2: Internal bypass and smart pressure switch for efficient operation.

4. Specifications

Attribute	Value
Model Number	SFDP1-055-060-55
Voltage	12V DC
Open Flow	5.5 GPM (20.8 LPM)
Max Draw	17A
Shut-off Pressure	60 PSI (4.2 BAR)
Priming Capabilities	9 FT (2.7M) suction lift

Attribute	Value
Max Recommended Temperature	140°F (60°C)
Material (Valves)	EPDM
Material (Diaphragm)	Santoprene
Ports	1/2"-14 MNPT Threaded
Noise Level	65 DB
Fixtures Quantity	Up to 6
Leads	16 AWG, 9" (22.8 cm) long
Duty Cycle	Intermittent
Product Dimensions	9.06"L x 6.3"W x 5.31"H
Item Weight	7 Pounds



Image 4.1: Detailed dimensions of the SEAFLO 55-Series pump.

5. Included Components

The following components are included with your SEAFLO 55-Series Diaphragm Pump:

- (1) SEAFLO 55-Series Diaphragm Pump
- (1) Set of Installation Instructions (this manual)
- (2) 1/2" Barbed Hose Adaptors
- (1) 50 Mesh Inlet Strainer



Image 5.1: Included accessories for installation.

6. Installation

6.1 Mounting

Mount the pump in a dry, accessible location. The semi-rigid rubber base minimizes vibrations and reduces noise. Ensure there is sufficient space around the pump for ventilation and future maintenance.



Image 6.1: Rubber mounting bracket base for reduced vibration.

6.2 Plumbing Connections

Connect the pump to your water system using the provided 1/2"-14 MNPT threaded ports and barbed hose adaptors. Install the 50 mesh inlet strainer on the intake side to protect the pump from debris. Ensure all connections are secure and leak-free.

6.3 Electrical Connections

Connect the pump's 16 AWG leads to a 12V DC power source. The red wire is positive (+), and the black wire is negative (-). It is recommended to install an appropriate fuse (not included) in the positive line to protect the pump and electrical system. The pump has a maximum draw of 17A.

7. Operation

7.1 Initial Startup

Once installed, ensure all water lines are open and the water source is available. Turn on the power to the pump. The pump will self-prime, drawing water from the source. Allow water to flow through all fixtures until air is purged from the system and a steady stream is achieved.

7.2 Automatic On/Off Operation

The integrated heavy-duty pressure switch automatically starts the pump when a faucet is opened and stops it when all faucets are closed. This provides a convenient, home-like water experience.

7.3 Bypass Valve Adjustment

The pump features an adjustable bypass valve to prevent excessive cycling, especially at low flow rates. If the pump cycles frequently when a faucet is partially open, you may need to adjust the bypass valve. Refer to the video below for detailed instructions.

Your browser does not support the video tag.

Video 7.1: This video demonstrates how to adjust the bypass valve on the SEAFLO 55 Series pump to optimize performance and reduce cycling.

7.4 Accumulator Tank Integration

For even smoother operation and reduced pump cycling, especially in systems with frequent small water draws, an accumulator tank can be integrated. This allows the pump to run less frequently by providing a buffer of pressurized water. Refer to the video below for a demonstration of the pump with an accumulator tank.

Your browser does not support the video tag.

Video 7.2: This video demonstrates the SEAFLO 55 Series water pump operating with a 2-gallon accumulator tank, showcasing improved flow and reduced cycling.

7.5 Flow Demonstration

Observe the pump's flow capabilities and how the bypass system manages varying water demands in the demonstration video below.

Your browser does not support the video tag.

Video 7.3: This video demonstrates the SEAFLO 55 Series 5.5 GPM Water Pressure Pump's flow rate and bypass functionality.

8. Maintenance

8.1 General Care

Regularly inspect the pump and all connections for leaks, corrosion, or damage. Keep the pump clean and free from debris. The durable Santoprene diaphragm and EPDM valves are designed for longevity in various water conditions.

8.2 Inlet Strainer Cleaning

Periodically check and clean the 50 mesh inlet strainer to ensure optimal water flow and prevent pump damage from particles. Disconnect power, remove the strainer, rinse it thoroughly, and reassemble.

8.3 Winterization

In freezing conditions, the pump and water system must be properly winterized to prevent damage. Drain all water from the pump and plumbing lines. Consider using RV/marine antifreeze according to product instructions.

9. Troubleshooting

- **Pump does not turn on:** Check power connections, fuse, and ensure the pressure switch is functioning. Verify adequate voltage.
- **No water flow:** Check water source, ensure inlet strainer is clear, and verify pump is primed. Inspect for kinks in hoses.
- **Low flow or pressure:** Check for blockages in lines or strainer. Ensure adequate power supply.
- **Pump cycles frequently:** This may indicate a leak in the system, a partially open faucet, or an improperly adjusted bypass valve. Refer to Section 7.3 for bypass adjustment.
- **Excessive noise:** Ensure pump is securely mounted and not vibrating against surfaces. Check for air in the system.

10. Warranty Information

The SEAFLO 55-Series Diaphragm Pump comes with a**4-Year Limited Warranty**. For warranty claims or detailed information, please refer to the official SEAFLO website or contact customer support.

11. Support

For further assistance, technical support, or to purchase replacement parts, please visit the official SEAFLO website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.
SEAFLO Official Website: Visit the SEAFLO Store on Amazon

© 2026 SEAFLO. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question