SEAFLO SFDP2-030-055-42

SEAFLO 42-Series Water Pressure Diaphragm Pump

Model: SFDP2-030-055-42

Product Overview

The SEAFLO 42-Series Water Pressure Diaphragm Pump is a 24V positive displacement pump designed for various applications including RVs, boats, yachts, water purification systems, and other liquid transfer needs. It features variable flow with bypass technology for reduced cycling, ensuring quiet and efficient operation. This pump is self-priming and capable of dry run operation without damage.



Image: The SEAFLO 42-Series Water Pressure Diaphragm Pump, showing the main pump unit, an inline strainer filter, and two barb straight pump fittings.

Key Features

- **UL 778 & CSA 22.2 Certified:** Ensures compliance with safety standards.
- **24 Volt, 3.0 GPM, 55 PSI:** Powerful positive displacement pump for consistent water flow.
- **Variable Flow With Bypass Technology:** Reduces pump cycling, leading to quieter operation and extended pump life.
- **Self-Priming And Capable Of Run Dry Operation:** Designed for reliability and durability, even in challenging conditions.
- **Four Chamber Design:** Contributes to quiet operation.
- **Adjustable Smart Pressure Switch:** Allows for automatic start/stop functionality and pressure adjustment (17-60 PSI).
- **Quiet High-Power Copper Motor:** Offers durability, efficiency, and resistance to environmental factors.
- **Rubber Base:** Minimizes vibration and reduces noise.



Image: Detailed diagram highlighting key features of the SEAFLO 42-Series pump, including the 4-chamber pump, sealed gasket, quiet copper motor, improved heavy-duty pressure switch, bypass technology, rubber base, and 1/2" NPT external pipe thread.

Setup and Installation

Proper installation is crucial for optimal performance and longevity of your SEAFLO pump. Please follow these guidelines:

1. Mounting

- Mount the pump in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures.
- Ensure the pump is mounted on a solid surface using the integrated rubber feet to minimize vibration and noise.
- Position the pump as close as possible to the water source to maximize suction lift (up to 6 feet).

2. Plumbing Connections

- Use appropriate fittings (included 51F01 1/2"-14 FNPT x 1/2" Barb Straight Pump Fitting) for secure, leak-free connections.
- Install the included 51S01 1/2" x 1/2" Inline Strainer Filter on the inlet side of the pump to protect it from debris.
- Ensure all connections are tight but do not overtighten.
- Use flexible hose on both inlet and outlet to further reduce vibration and noise.

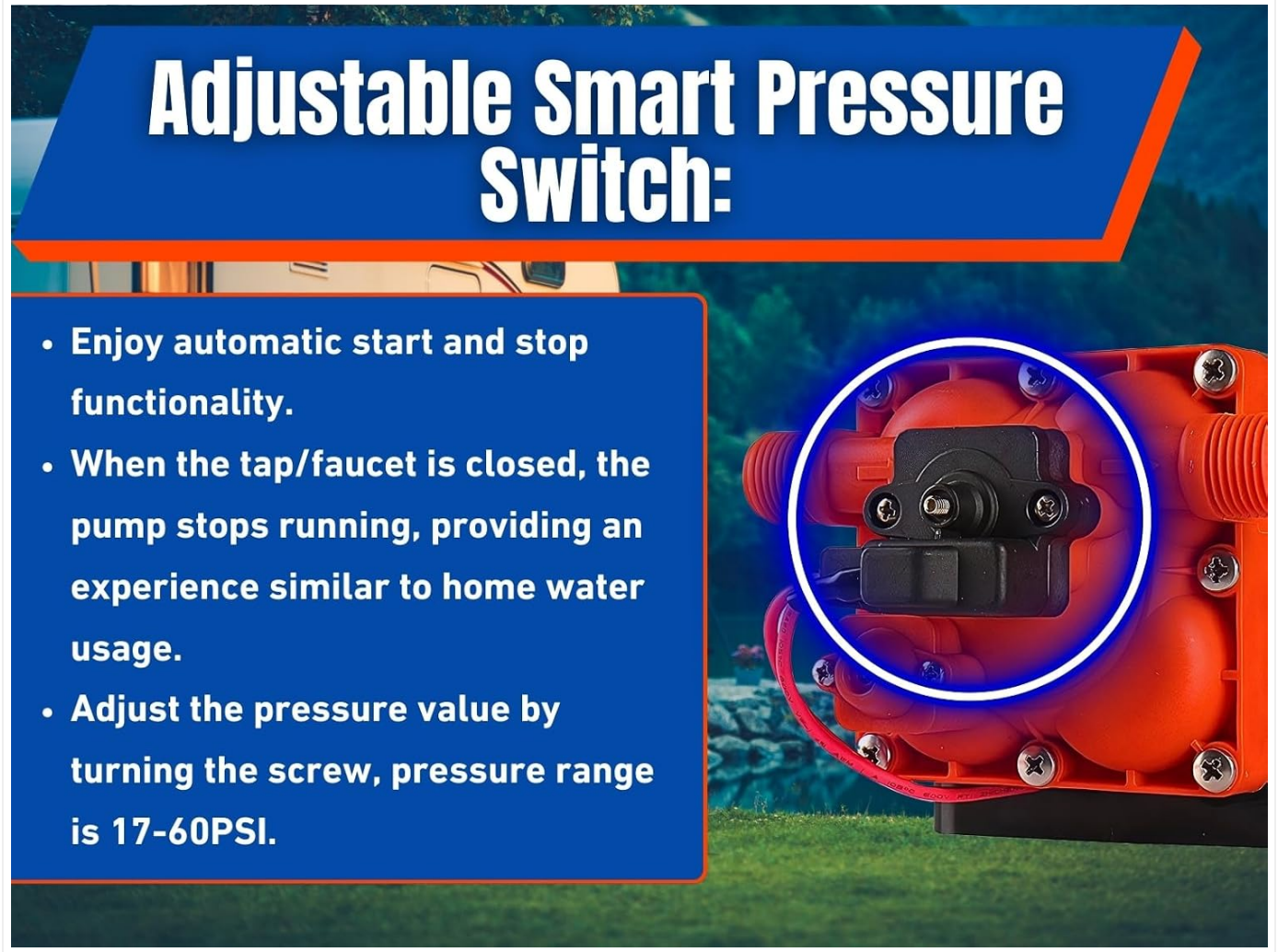


Image: The SEAFLO 42-Series pump shown with its included accessories: the inline strainer filter and two barb fittings, ready for plumbing connections.

3. Electrical Connections

- Connect the pump to a 24V DC power source.
- Ensure correct polarity: Red wire to positive (+), Black wire to negative (-).
- Use appropriate gauge wiring and fuse protection as per local electrical codes and pump specifications.
- All electrical connections should be waterproof and secure.

Operating Instructions

The SEAFLO 42-Series pump is designed for automatic operation based on demand.

Automatic Operation

- Once properly installed and powered, the pump will automatically start when a faucet or fixture is opened, providing instant water flow.
- When the faucet or fixture is closed, the pump will automatically stop.
- The integrated bypass technology ensures smooth, continuous flow even at very low flow rates, preventing rapid cycling (on/off) of the pump.

Adjusting Pressure Switch

- The pressure switch can be adjusted to fine-tune the pump's cut-off pressure.
- To adjust, locate the adjustment screw on the pressure switch (refer to product images for location).

- Turn the screw clockwise to increase the cut-off pressure, and counter-clockwise to decrease it. The adjustable range is typically 17-60 PSI.
- Adjust gradually and test the flow to achieve desired performance.



Image: Close-up view of the SEAFLO pump highlighting the adjustable smart pressure switch, which allows for automatic start/stop and pressure customization.

Operational Demonstration Video

[redacted]

Video: A demonstration of the SEAFLO 42 Series 3.0 gallon per minute quiet water pressure pump in operation, showcasing its variable flow and non-cycling performance even at low flow rates.

Maintenance

Regular maintenance will help ensure the long life and efficient operation of your SEAFLO pump.

- **Inspect Connections:** Periodically check all plumbing and electrical connections for leaks or corrosion. Tighten as necessary.
- **Clean Strainer Filter:** The inline strainer filter should be regularly inspected and cleaned to prevent debris from entering the pump and reducing flow.
- **Winterization:** If the pump is in an environment where freezing temperatures are possible, ensure it is properly drained and winterized to prevent damage.
- **General Cleaning:** Keep the exterior of the pump clean and free of dirt and grime.

Troubleshooting

Problem	Possible Cause	Solution
Pump does not turn on.	No power, loose wiring, blown fuse, faulty pressure switch.	Check power supply, inspect wiring, replace fuse, test/replace pressure switch.
Low flow or pressure.	Clogged inlet strainer, air leak in suction line, kinked hose, low voltage, worn pump head.	Clean strainer, check all connections for air leaks, straighten hose, verify voltage, inspect pump head.

Problem	Possible Cause	Solution
Pump cycles rapidly (on/off).	Air in system, small leak in plumbing, pressure switch needs adjustment, no accumulator tank.	Bleed air from system, check for leaks, adjust pressure switch, consider installing an accumulator tank.
Pump runs but no water.	No water in tank, air lock, clogged inlet, pump not primed.	Check water level, prime pump by opening a faucet, clear inlet, ensure pump is self-priming correctly.

Specifications

Attribute	Value
Brand	SEAFLO
Model Number	SFDP2-030-055-42
Voltage	24 Volts (DC)
Maximum Flow Rate	3 Gallons Per Minute
Pressure	55 PSI (Max)
Power Source	24V DC
Material	Stainless Steel (internal components)
Item Weight	4.77 pounds
Included Components	51S01 Filter, 51F01 Fitting

Warranty and Support

For specific warranty information and support, please refer to the documentation included with your product or contact SEAFLO directly. Extended protection plans may also be available for purchase.
Visit the official SEAFLO Store for more information:SEAFLO Store on Amazon

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