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SEAFLO SFMTP1-04

SEAFLO 12V Quiet-Flush Marine Toilet Flush Pump SFMTP1-04 User Manual

Model: SFMTP1-04 | Brand: SEAFLO

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the SEAFLO 12V Quiet-Flush Marine Toilet Flush Pump, Model SFMTP1-04. This high-volume, self-priming discharge pump is designed as a direct replacement for existing SEAFLO and Jabsco Quiet Flush toilet systems. It features quiet operation and enhanced discharge performance, transitioning from traditional intake/exhaust to full-powered waste ejection with improved flow and reduced noise. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your pump.

PRODUCT COMPONENTS

The SEAFLO SFMTP1-04 pump package includes the following components:



Flush Valve (1)



Hardware



Flush Pump (1)



Joker Valve (1) & Skeleton (1)



Flush Pump Cover (1)

Figure 1: Included Components of the SEAFLO SFMTP1-04 Flush Pump.

- **Flush Pump (1):** The main pump unit.
- **Flush Pump Cover (1):** Protective cover for the pump.
- **Flush Valve (1):** Component for controlling water flow.
- **Hardware:** Mounting screws and fasteners.
- **Joker Valve (1) & Skeleton (1):** Internal components for waste management.

COMPATIBILITY

The SEAFLO SFMTP1-04 is designed as a direct replacement for various marine toilet flush systems. It is fully compatible with the following models:



12V Quiet-Flush Marine Toilet Flush Pump



COMPATIBILITY



**37045-0092, 37045-1092,
37245-0092, & 37245-1092**

**SFMTE1-03-R, SFMTE1-04-R,
SFMTE1-03, & SFMTE1-04**

Figure 2: Compatibility with SEAFLO and Jabsco Quiet Flush Toilet Systems.

- **SEAFLO Quiet Flush Toilet Models:** SFMTE1-03-R, SFMTE1-04-R, SFMTE1-03, SFMTE1-04.
- **Jabsco Quiet Flush Units:** 37045-0092, 37045-1092, 37245-0092, 37245-1092.
- **Replacement Equivalent for:** Jabsco pump assembly 37072-0092.

SPECIFICATIONS

Detailed technical specifications for the SEAFLO SFMTP1-04 pump are provided below:

| Feature | Specification |
|--------------|-----------------|
| Model | SFMTP1-04 |
| Voltage | 12V DC |
| Flow Rate | 25 GPM (95 LPM) |
| Current Draw | 16A |

| Feature | Specification |
|--------------------|--------------------------------------|
| Fuse Requirement | 25A |
| Ports | 0.78 inches |
| Impeller Material | Stainless Steel |
| Power Source | corded electric |
| Item Weight | 4.15 pounds |
| Package Dimensions | 9 x 6.25 x 4 inches |
| Application | Marine Electric Toilet Flush Systems |
| Warranty | 4 Years Limited Warranty |

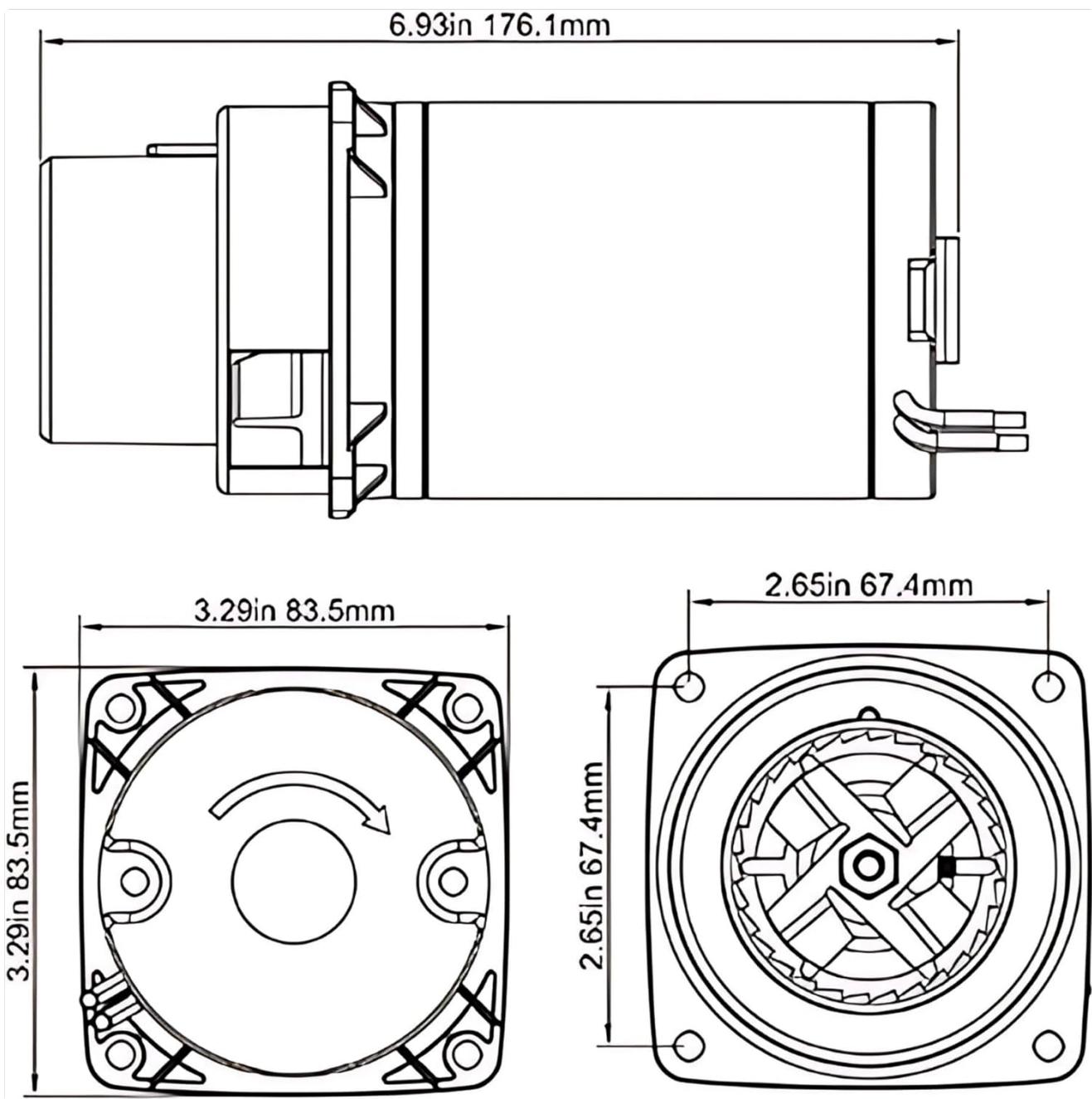


Figure 3: Dimensional Drawing of the SFMTP1-04 Pump.

SETUP AND INSTALLATION

The SEAFLO SFMTP1-04 pump is designed for straightforward installation as a replacement unit. Follow these general guidelines for proper setup:

1. **Safety First:** Ensure all power to the marine toilet system is disconnected before beginning installation. Close all relevant seacock valves.
2. **Remove Old Pump:** Carefully disconnect the wiring and plumbing from the existing flush pump. Be prepared for residual water in the lines.
3. **Mounting:** Position the new SEAFLO SFMTP1-04 pump in the desired location. The pump features a compact design and a plug-and-replace footprint for easy integration into tight marine head compartments. Use the provided mounting hardware to secure the pump firmly.
4. **Plumbing Connections:** Connect the inlet and outlet hoses to the pump's 0.78-inch ports. Ensure all connections are watertight using appropriate marine-grade clamps and sealants.
5. **Electrical Wiring:** Connect the pump's wiring to the vessel's 12V DC power supply. The pump draws 16A, so ensure the circuit is protected by a 25A fuse. The red wire is typically positive (+), and the black wire is negative (-). Consult your vessel's electrical diagram if unsure.
6. **Install Cover:** Place the flush pump cover over the pump unit for protection.
7. **Test System:** Once all connections are secure, open seacock valves and restore power. Test the flush system for proper operation and check for any leaks.



Figure 4: Example Installation of the SFMTP1-04 Pump on a Marine Toilet.



Figure 5: Detailed View of the SFMTP1-04 Pump Unit.

OPERATING INSTRUCTIONS

The SEAFLO SFMTP1-04 pump is designed for efficient waste discharge in marine electric toilet systems. Its operation is typically integrated with the toilet's flush control mechanism.

- **Flushing:** Activate the toilet's flush button or lever. The pump will engage to macerate and discharge waste.
- **Quiet Operation:** This upgraded pump is engineered for reduced noise during operation, enhancing comfort onboard.
- **Efficient Discharge:** The pump provides a high flow rate of 25 GPM (95 LPM) for effective and clog-free waste removal.
- **Water Supply:** Ensure an adequate water supply to the toilet for proper flushing.
- **Run Dry Protection:** The pump is thermally protected. Avoid prolonged dry running, which can cause damage.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your SEAFLO SFMTP1-04 flush pump.

- **Regular Inspection:** Periodically inspect all plumbing connections for leaks and ensure electrical connections are secure and free from corrosion.
- **Cleanliness:** Keep the pump area clean and free from debris.
- **Joker Valve Check:** The joker valve is crucial for preventing backflow. Inspect it periodically for wear or blockages.

and replace if necessary.

- **Winterization:** In freezing climates, ensure the pump and associated plumbing are properly winterized to prevent damage from ice expansion. Follow standard marine winterization procedures, typically involving flushing with non-toxic antifreeze.
- **Impeller Check:** While the impeller is stainless steel, inspect it during routine maintenance for any signs of wear or damage, especially if performance degrades.

TROUBLESHOOTING

If you encounter issues with your SEAFLO SFMTP1-04 pump, refer to the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
|----------------------------------|---|--|
| Pump does not run | No power; Blown fuse; Loose wiring connection; Motor fault. | Check power supply; Inspect and replace fuse (25A); Secure all electrical connections; If motor fault, contact support. |
| Low flow or poor discharge | Clogged intake/discharge line; Worn impeller; Blocked joker valve; Insufficient water supply. | Clear any blockages in plumbing; Inspect and replace impeller if worn; Clean or replace joker valve; Ensure adequate water supply to the toilet. |
| Pump runs continuously or cycles | Leak in discharge line; Faulty joker valve; Air leak in intake. | Inspect all plumbing for leaks and tighten connections; Replace joker valve; Check intake lines for air leaks. |
| Excessive noise or vibration | Loose mounting; Debris in pump; Worn bearings. | Tighten mounting hardware; Inspect pump for foreign objects; If bearings are worn, contact support. |

If these steps do not resolve the issue, please contact SEAFLO customer support.

WARRANTY INFORMATION

The SEAFLO SFMTP1-04 Quiet-Flush Marine Toilet Flush Pump is backed by SEAFLO's **4-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use and service. For full details regarding warranty terms, conditions, and claim procedures, please refer to the official SEAFLO warranty documentation or contact SEAFLO customer support.

CUSTOMER SUPPORT

For technical assistance, warranty claims, or to purchase replacement parts, please contact SEAFLO customer support. Have your product model number (SFMTP1-04) and purchase date available when contacting support. You can find contact information on the official SEAFLO website or through your product retailer.