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Fluimac PF0050S-HTTST3-AB

Phoenix PF50 Food Grade Air Operated Double Diaphragm Pump User Manual

Model: PF0050S-HTTST3-AB | Brand: Fluimac

Product Overview

The Fluimac Phoenix PF50 is a high-performance, food-grade air-operated double diaphragm (AODD) pump designed for efficient and safe transfer of various fluids, particularly in applications requiring strict hygiene standards. Constructed with 316 stainless steel and PTFE components, it ensures durability and chemical compatibility for a wide range of media.



Image: Fluimac Phoenix PF50 Food Grade Air Operated Double Diaphragm Pump, showcasing its 316 SS body and 1-inch clamp connections.

Setup

1. Unpacking and Inspection

- Carefully remove the pump from its packaging.
- Inspect the pump for any visible damage that may have occurred during transit. Report any damage to the supplier immediately.
- Verify that all components listed in the packing slip are present.

2. Mounting

- Mount the pump on a stable, level surface capable of supporting the pump's weight and the weight of the fluid being pumped.
- Ensure adequate clearance around the pump for maintenance and operation.
- Use appropriate fasteners to secure the pump to prevent vibration and movement during operation.

3. Connections

- **Fluid Inlet/Outlet:** Connect the 1-inch clamp connections to your process piping. Ensure all connections are secure and leak-free. Use food-grade gaskets where applicable.
- **Air Supply:** Connect a clean, dry, regulated air supply to the 1/4" FNPT air inlet. An air filter/regulator/lubricator (FRL) unit is recommended to ensure optimal pump life and performance.
- **Air Exhaust:** Ensure the air exhaust port is clear and directed away from personnel or sensitive equipment. A muffler can be installed to reduce noise.

Operating Instructions

1. Pre-Operation Checks

- Confirm all fluid and air connections are tight.
- Ensure the fluid lines are free of obstructions.
- Verify the air supply pressure is within the recommended operating range (typically 20-100 PSI).

2. Initial Startup

- Slowly open the air supply valve to the pump. The pump will begin to cycle.
- Gradually increase the air pressure until the desired flow rate is achieved.
- Monitor the pump for any unusual noises or leaks during startup.

3. Normal Operation

- The pump's flow rate can be adjusted by varying the air supply pressure. Higher air pressure results in higher flow.
- Do not exceed the maximum recommended air pressure.
- Ensure the pump is not run dry for extended periods, as this can cause premature wear.

4. Shutdown Procedure

- Close the air supply valve to the pump.
- Allow the pump to complete its last cycle.
- If the pump will be idle for an extended period, drain the fluid lines and flush the pump with a compatible

cleaning solution, especially for food-grade applications.

Maintenance

1. Routine Checks

- Regularly inspect diaphragms, balls, and seals for signs of wear, cracking, or swelling.
- Check all fasteners for tightness.
- Monitor air supply quality; ensure air is clean and dry.

2. Cleaning

- For food-grade applications, follow a strict cleaning-in-place (CIP) or manual cleaning protocol.
- Flush the pump thoroughly with potable water or an approved cleaning solution after each use or as required by hygiene standards.
- Disassemble the fluid sections periodically for thorough cleaning and inspection of internal components.

3. Component Replacement

- Diaphragms, balls, and seals are wear items and will require periodic replacement.
- Refer to the pump's exploded view diagram (if available from manufacturer) for proper disassembly and reassembly procedures.
- Always use genuine Fluimac replacement parts to ensure compatibility and performance.

Troubleshooting

Problem	Possible Cause	Solution
Pump not cycling or no flow	No air supply; Air valve closed; Air motor stalled; Inlet clogged; Diaphragm rupture.	Check air supply and pressure; Open air valve; Inspect air motor; Clear inlet line; Inspect and replace diaphragms.
Reduced flow or pressure	Insufficient air pressure; Worn diaphragms/balls/seats; Partial inlet/outlet blockage; Air leak in system.	Increase air pressure; Inspect and replace worn components; Clear blockages; Check for and seal air leaks.
Fluid leaking from air exhaust	Diaphragm rupture.	Inspect and replace the ruptured diaphragm.
Excessive noise or erratic operation	Cavitation; Air motor issues; Loose fasteners; Worn components.	Ensure adequate fluid supply to inlet; Inspect air motor; Tighten fasteners; Replace worn parts.

Specifications

Attribute	Detail

Attribute	Detail
Brand	Fluimac
Model Number	PF0050S-HTTST3-AB
Body Material	316 Stainless Steel (AISI Body)
Diaphragm Material	HY+PTFE
Ball Material	PTFE
Seat Material	AISI
Seal Material	PTFE
Power Source	Air Operated
Air Inlet Connection	1/4" FNPT
Fluid Connection Type	1 Inch Clamp Connection
Maximum Flow Rate	19 GPM (Gallons Per Minute)
Maximum Solids Handling	1/8" (3.175 mm)
Noise Level	68 dB
Maximum Viscosity	20000 CPS
Suction Prime	19.6' (5.97 m)

Warranty and Support

For detailed warranty information, please refer to the documentation provided with your purchase or contact Fluimac directly. Technical support and genuine replacement parts can be obtained through authorized distributors or the manufacturer's customer service channels.

Always ensure that any service or repair is performed by qualified personnel to maintain product integrity and warranty validity.

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