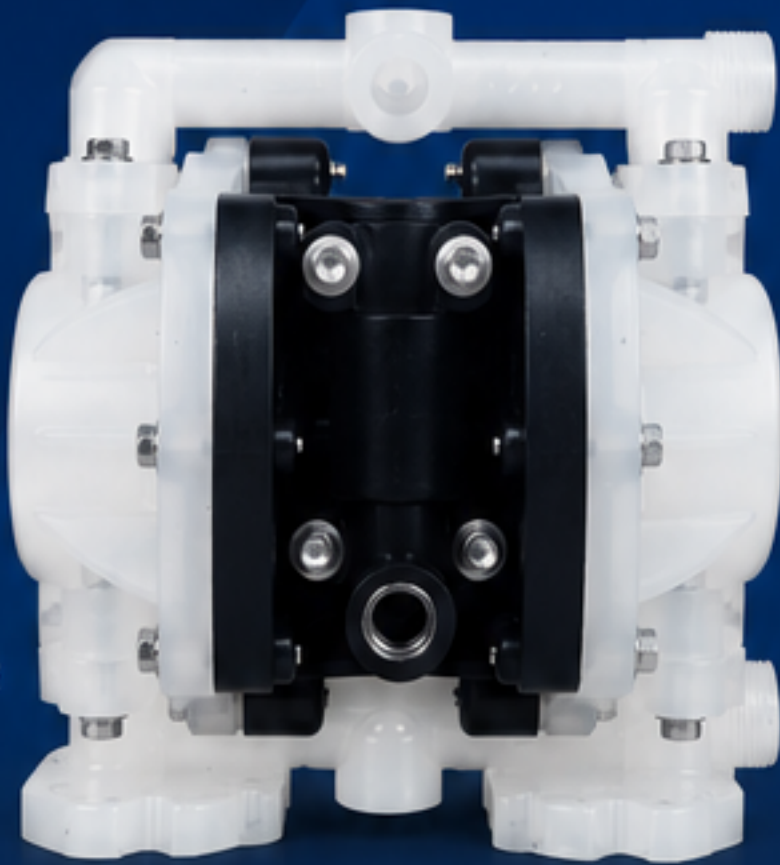


OPERATOR & MAINTENANCE MANUAL
KETTA AOD0.25AF
6 mm (1/4") POLYPROPYLENE
AIR OPERATED DOUBLE DIAPHRAGM PUMP

- 20 L/min
MAX FLOW
- 8.6 bar (125 psi)
MAX PRESSURE
- SELF-PRIMING
DRY RUN CAPABLE
- CHEMICAL
RESISTANT
- LOW NOISE
62.3 dBA



1. INTRODUCTION

Thank you for choosing a Ketta Pumps Air Operated Double Diaphragm (AODD) Pump.

The KETTA AOD0.25AF has been designed for reliable transfer of a wide range of industrial fluids while providing:

- Dry-run capability
- Self-priming operation
- Chemical resistance
- Low maintenance
- Safe pneumatic operation
- Seal-less construction

3. SPECIFICATIONS

ITEM	SPECIFICATION
Maximum Flow	20 L/min
Maximum Pressure	8.6 bar (125 psi)
Pump Ratio	1:1
Air Inlet	1/4"-18 PTF
Fluid Ports	1/4" NPT(F)
Displacement per Stroke	0.072 L/cycle
Dry Suction Lift	4.6 m
Maximum Solids Size	1.66 mm
Sound Level	62.3 dBA
Muffler	Integral
Wetted Material	Polypropylene
Diaphragm Options	Santoprene® or PTFE
Hardware	Stainless Steel
Weight	1.6 kg

2. SAFETY INFORMATION

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ALWAYS
 - Read this manual before installation and operation.
 - Wear appropriate personal protective equipment (PPE).
 - Depressurise the pump and disconnect air supply before servicing.
 - Ensure chemical compatibility of pumped media.
 - Install an air shutoff valve.
 - Secure all connections before operation.

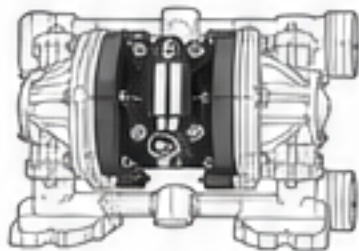
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NEVER
 - Exceed the maximum air pressure of 8.6 bar (125 psi).
 - Point discharge toward personnel.
 - Operate pump with damaged hoses or connections.
 - Modify the pump components.

4. PUMP DESCRIPTION

The KETTA AOD0.25AF is an air operated double diaphragm pump. Compressed air is applied to the air valve, which alternately shifts air to the back of each diaphragm. This creates a reciprocating motion that:

- Draws fluid into one chamber.
- Discharges fluid from the opposite chamber.
- Provides continuous flow.
- Stops automatically when discharge pressure equals inlet air pressure.



5. INSTALLATION

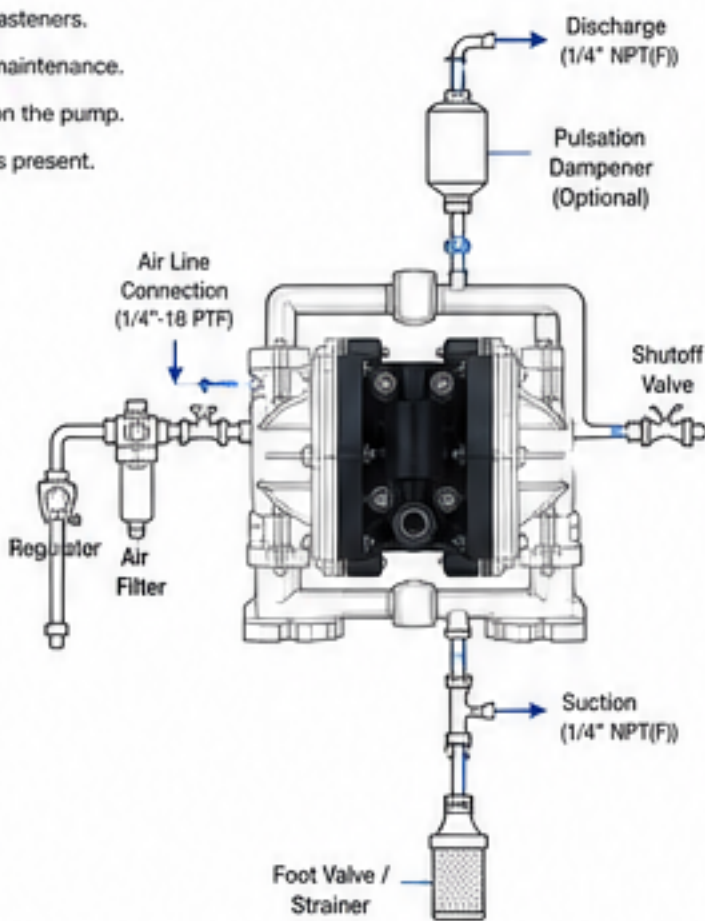
5.1 Mounting

- Mount the pump on a level surface using suitable fasteners.
- Ensure the pump is accessible for operation and maintenance.
- Support the piping independently to avoid strain on the pump.
- Use flexible hoses or connectors where vibration is present.

5.2 Recommended Accessories

- Air Regulator**
To control pump speed and flow.
- Air Filter**
To remove dirt and moisture from the air supply.
- Air Shutoff Valve**
For safe isolation during maintenance.
- Flexible Air Hose**
To reduce vibration and noise.
- Pulsation Dampener (optional)**
To reduce pulsation in the discharge line.

Typical Installation



6. AIR SUPPLY REQUIREMENTS

- Use clean, dry, regulated compressed air.
- Install an air filter and regulator as close to the pump as possible.
- Maximum inlet air pressure: 8.6 bar (125 psi).
- Recommended operating pressure range: 1.4 – 6.9 bar (20 – 100 psi).
- Air quality: ISO 8573-1 Class 4,4,4 or better.

7. OPERATING INSTRUCTIONS

Start-Up

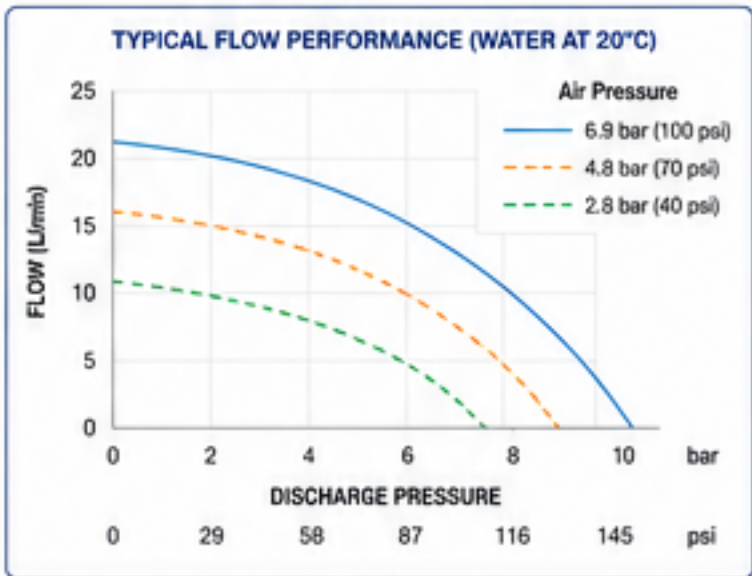
1. Ensure the pump is properly installed.
2. Check all connections and tighten if necessary.
3. Open the discharge valve.
4. Slowly open the air shutoff valve.
5. Adjust the air regulator to the desired flow rate.
6. Allow the pump to prime. The pump is self-priming.
7. Check for leaks and correct if required.

Shutdown

1. Close the air shutoff valve.
2. Relieve air pressure from the system.
3. Close the discharge valve if necessary.
4. Drain or flush the pump if the fluid may solidify or crystallize.
5. Disconnect air supply when maintenance is required.

8. PERFORMANCE GUIDELINES

- Performance may vary with fluid type, viscosity, temperature and inlet conditions.
- Maximum free flow: 20 L/min.
- Maximum discharge pressure: 8.6 bar (125 psi).
- Do not exceed the maximum recommended pressure.
- For optimum performance, operate the pump within the recommended air pressure range.



9. MAINTENANCE SCHEDULE

INTERVAL	TASK	DETAILS
Daily	Inspection	Check for leaks, unusual noise, and loose connections.
Weekly	Air System	Drain air filter and check for moisture or contamination.
Monthly	Pump Inspection	Inspect diaphragms, check valve balls and seats.
Annually	Service Kit	Replace diaphragms, valve balls, seats and seals.
As Required	Cleaning	Flush pump with suitable fluid to prevent build-up.