

Air-operated double diaphragm pumps have long been recognized as the most flexible pumps of the industry for handling difficult liquids at relatively low pressures and flows. The range of applications is virtually limitless. Meclube AODD pumps come in many sizes and choices of materials of construction. Almost every type of liquid can be pumped from highly corrosive acids through high viscosity paints and adhesives, to food and drink products.



- Special air system: lube-free, anti-stall, anti-freeze.
- Efficient air distribution design: low air consumption.
- Handled liquids with solids particles: ideal for abrasive and viscous fluids.
- All plastic air system: strong and corrosion-resistant in harsh environments.
- Efficient performance: high flow rates through optimal casing designs.
- They can be customized for specific applications:
- Multiple porting options available along with interface options.
- All bolted Construction: it provides maximum leak resistance and safety.
- Variable flow and head pressures, easy to adjust, without sophisticated controls.
- Wide range of sizes and materials suited to variety of conditions and chemicals fluids.
- Safely “dead head” function, against closed discharge, without pump damage.
- Self-priming dry up to 6 meters: works in suction lift applications.
- 100% wet tested after final assembly: deadheading, priming, and sealing.



1. Suction Cycle

Compressed air fills right inner chamber, causing the opposing diaphragm to create suction, lifting the lower valve ball, pulling in fluid at inlet. Simultaneously, the right chamber is in “Discharge” cycle.



2. Discharge Cycle

Compressed air fills left inner chamber, causing upper valve ball to open and discharge fluid. Simultaneously, the right chamber is in “Suction” cycle.