

Working Principle

The Moniba AODD pump is double pumps in one, Chambers A&B are alternatively filled and emptied by drawing liquid in through a common inlet (C) and out through a common outlet (D). The diaphragms in each chamber are connected by a common shaft so that they move backwards and forwards together. Compressed dry air is directed by the air valve (E) alternatively behind each diaphragm to power discharge strokes. Pump speed and therefore fluid flow-rate can be infinitely controlled by increasing or decreasing air pressure and or volume.

Operation Sequence

The blue arrows show the pump cycle. Fluid is being drawn into inlet (C) by the suction stroke of the diaphragm in chamber B, which opens the Ball Valve (1) to allow liquid to enter the chamber. Ball Valve (3) is closed by the diaphragm suction. In chamber (A) air has been applied to the rear of the diaphragm to force out the liquid in the chamber through the Ball Valve (4) to the Liquid outlet. (D). This discharge stroke closes Ball Valve (2) to prevent further liquid entering the chamber. This cycle is repeated to provide a continuous flow to outlet D.

Standard AODD pumps are one : one ratio-maximum outlet pressure never exceed air supply pressure.

The media Airon pump can handle

A full list of chemicals and recommended elastomers is available on request, or our sales office can advise on the best pump & materials for specific media

Typical range of products you can pump.

ABRASIVES : Clay slip, titanium dioxide, frit, mill scale.

ALCOHOLS ACIDS : All mineral and organic acids.

CEMENT : Cement, Mortar

COSMETICS : Creams, emulsions, detergents.

CAUSTICS

CERAMICS : Slip glazes. Clay

DRILLING : Mud, grout, lubricants

DRINKS : Soft drinks, spirits, beer, wine, milk

EXPLOSIVES : Suspensions of gun powder explosive, etc.

INKS & DYES : Printing inks, driers, dyes, sixes and solvents

FOODS : Liquid and semi-solid foods, flavourings.

OILS : Petrol, diesel, hydraulic and cutting oils, lube oils, animal and vegetable oils and greases.

PULPS : Paper, wood, sizes bleaches

RESINS : Natural and synthetics, water and solvent based, monomeric and polymeric plastics

SLUDGE & WASTE : Sewage, effluents, coal and lime slurry.

SOLVENTS : Aromatic and aliphatics, ketones, aldehydes, esters and chlorinated hydrocarbons, de-icing fluids.

WATER : All types.

TIMBER PRESERVATIVES : Creosote, turpentine, copper naphenate.

PAINT : Emulsions, latexes, pigments., solvents, resins, thinners,

PHARMACEUTICALS : Liquids, creams and compounds.

PLATING : Aggressive acids, salts, sludge and effluents.

RUBBER : Natural and synthetic.

Advantage's of AODD pump

1. No seal, No leakage
2. No motor, No fire.
3. No rotation, No charging, less wear and tear.
4. Self priming, No foot valve need.
5. Pump can run dry
6. Variable flow, with same pump
7. Stop automatic on closing of discharge valve..
8. Can be submerge.
9. Light weight, handy in use.
10. Can handle solids 2mm to 10 mm.
11. Less stock of spare part to be maintain.
12. No skill person is needed to operator or repair pump.
13. Also can be use as metering pump up to accuracy of 3-5%
14. In short very simple and versatile pump.

Range of Moniba makes pumps



Peristaltic Hose Pump



S. S. Centrifugal Pump in Investment casting



Portable Submersible Sewage Pump



Magnetic Driven Pump



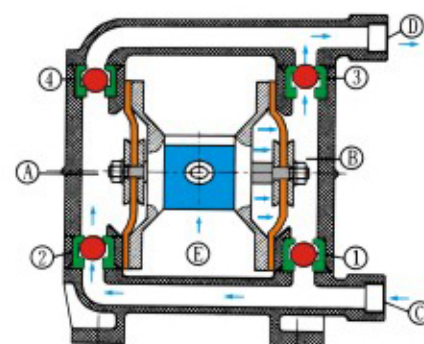
Polypropylene Pump

Distributor

Moniba Anand Electricals Pvt. Ltd.

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Stainless Steel
for chemical, food



Polypropylene Pump (For acid)



Aluminum
for solvent,
ceramic, paint, etc.



Barrel Pump
upto the last drop of liquid



Steam Jacketed
for Chocolate / Wax



Cast Iron
for waste water

AirOn

MONIBA
P U M P S

Air Operated Double Diaphragm Pumps