

# WHAT ARE BENEFITS OF AODD PUMP?

## 1. Handles a wide variety of fluids with solids content

Handling a wide range of viscosity - both caustic and abrasive, Diaphragm pumps are some of the most versatile pumps in the world. NO close – fitting or rotating parts so liquid with high solid % and/or size of solids can be pumped easily.

## 2. Self-priming function

Design of pump allows for great suction lift even with heavier fluids. In fact, Diaphragm pumps have some of the strongest lift capabilities of any kind of pump made.

## 3. Ability to run dry

No close fittings or sliding parts are at risk, therefore the pump can operate even when dry without massive damage. It is not recommended to dry run constantly or for long periods, due to the fact that one will consume the diaphragm stroke life, however other than the diaphragm life there is no danger posed to the pump or piping.

## 4. Explosion proof

Due to the fact that they operate on air they are intrinsically safe and considered explosion proof when grounded properly and following local code.

## 5. Pumping efficiency remains constant

There are no rotors, gears, vanes, or pistons, which wear over time and lead to a gradual decline in performance expected of some pumps.

## 6. Variable flow rate and discharge pressure

The pumps will run anywhere within their operating range by simply adjusting the air inlet pressure and liquid discharge settings. They are extremely flexible with one pump fitting a broad spectrum of applications

## 7. No over-heat problem

Compressed and filtered air, nitrogen or Clean Dry Air are all very cold. With this being

the source of power for Diaphragm pumps, they actually cool themselves during operation and won't overheat.

## 8. No Mechanical seals, couplings or motor

This eliminates much of the maintenance and leaking that is associated with other kinds of pumps. Essentially the Diaphragm pump is a "pump in a box".

## 9. Submersible

Provided compatibility, if an air hose is run above the liquid from the exhaust of the pump, then it can be submerged. This adds a tremendous amount of flexibility to the product

## 10. Portable

These pumps can be quickly toted to wherever they are needed and whenever they are needed. Again, the Diaphragm pump is one of the most flexible pumps in the world.

## 11. Dead head

When discharge pressure exceeds air pressure, the pumps will simply come to a stop. The discharge line may be closed with no power consumed, no temperature increases, and without damage or wear. The pump will not damage itself or system piping.

## 12. Simple installation

By simply connecting your air supply line and liquid lines, it is ready to perform. There are no complex controls, fittings or motors to install and operate

## 13. No pressure relief or bypass needed

Due to the fact that discharge pressure cannot exceed air pressure or the pump simply stops, there is no need for pressure relief at the pump. This saves installation expenses and possible operational problems.

## 14. Easily Maintained & inexpensive

Low Internal volume reduces waste and make clean-up easy.