

# ARO® Diaphragm Pumps

ARO Air operated Diaphragm Pumps are designed for general use. They can easily pump from clean, light viscosity fluids to corrosive, abrasive medium viscosity fluids and can transfer large particles without damage. Due to their pneumatic motor, they can be used in potentially explosive areas. Most of the ARO Diaphragm Pumps are ATEX certified (CE ExII 2GD X).

## Highly flexible

ARO diaphragm pumps offer the ability to vary the flow outlet and discharge pressure as slow as one litre per minute up to 1040 litres per minute for our larger sizes and adjust fluid pressure up to 8.5 bars, with just using an air filter / regulator and a needle valve.

## Self-priming

These pumps are self-priming up to an elevation of 8.3m (with water) and can operate dry without any damage. If the fluid outlet is closed, the pump stops; it restarts with the reopening of the fluid circuit; no pressure relief valve or bypass is necessary.

## Wide range of material configurations

The ARO range of diaphragm pumps offers many material of construction compatible for the chemical industry: our metallic offering consists of aluminium, cast iron, stainless steel and Hastelloy. Our non-metallic offering consists of polypropylene, acetal and PVDF.



## ARO® Diaphragm Pumps Range and Applications

### Compact Pumps, 1/4" to 3/4" ports

Ideal for OEM and general industrial applications, these pumps feature big performance in a small package. Flow rates up to 56 l/min with a large range of material configurations.

### EXP Series Pumps, 1" to 3" ports

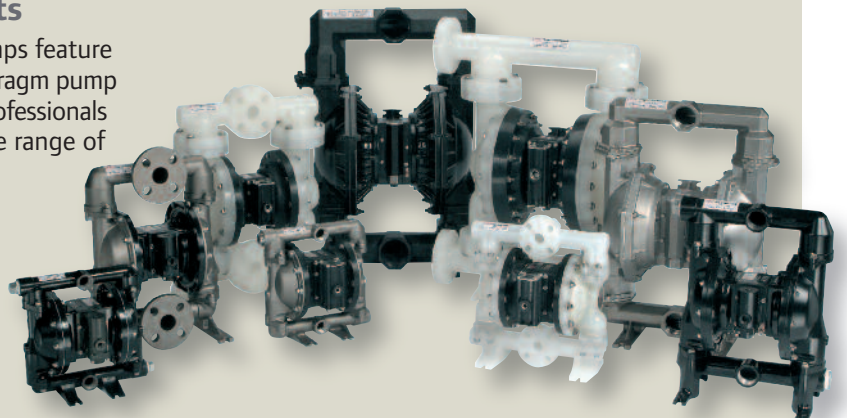
ARO's PROCESS GRADE, Expert Series Pumps feature the best total cost of ownership of any diaphragm pump on the market. A favourite among process professionals with flow rates up to 1041 l/min and a large range of material configurations.

### Pro Series Pumps, 1" to 3" ports

ARO's INDUSTRIAL GRADE, Pro-Series Diaphragm Pumps provide high performance and stall-free reliability with flow rates up to 897 l/min.

### Specialty Application Pumps

Pumps providing the same high level of performance and satisfaction but in a design tailored for your specific application. This range includes many specific models (see details pages 8 and 9).





**Productivity:** Maximised flow rates + Minimised pulsation and air consumption = Maximum Performance.



**Versatility:** Multiple porting options available along with interface options allow you to customise this pump specifically to your OEM application.



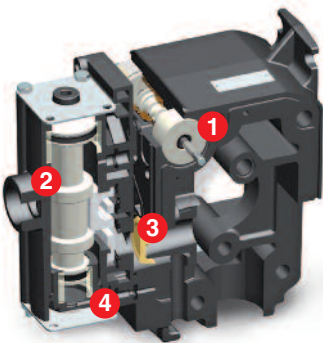
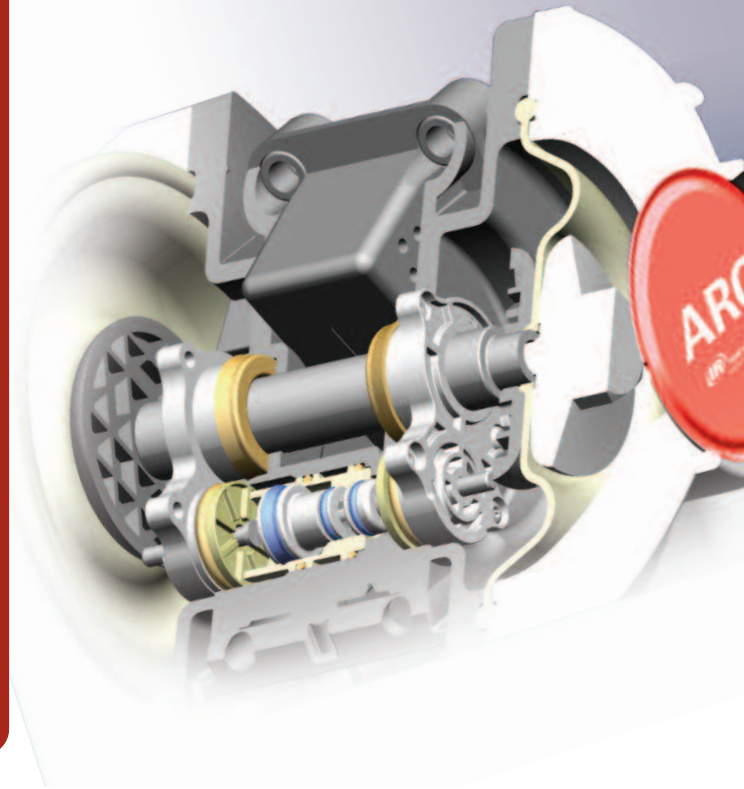
**Reliability:** Lube free patented differential valve both on major air valve and SimulShift™ (pilot valve) provides reliable worry free operation – fluid on demand every time.



**Environmentally Sound:** Bolted construction in conjunction with a wide range of material options provides maximum chemical and leak resistance.



**Serviceability:** Modular construction, reduced parts count and simple to use repair kits minimise repair time and cost.



### Patented ARO® Air Motor Technology

- 1 SimulShift™ Valve; avoids stall-out – provides faster pump trip-over with more flow.
- 2 Unbalanced™ Major Air Valve; eliminates pump stall-out, even under low air inlet pressures.
- 3 "D" Valve for optimum energy efficiency while avoiding costly air "blow-by" – ceramic construction for long service life.
- 4 Quick Dump™ Checks, eliminates pump ice-up by diverting cold, wet exhaust air away from the major air valve.

### ARO® Diaphragm Pumps: the best "total cost of ownership" in the industry

**Energy Efficient:** ARO EXP pumps are 20% to 40% more efficient than competitive models.

**Downtime Reduction:** The mean time between failure for EXP is up to four-times longer than competitive pumps.

**Installation/Repairs and Spare Parts:** EXP diaphragms provide up to four-times the life of competitive diaphragms. EXP spares include cost-effective service kits, not the expensive full-motor replacements of some competitors.

**EXP Total Value Proposition:** EXP provides the BEST total cost of ownership of any diaphragm pump on the market today.

