



# EXPert Series Diaphragm Pumps

1" THROUGH 3" FLUID PORTS

**With proven performance in the field and backed by a 5-year warranty, ARO EXP diaphragm pumps deliver consistency and reliability in the most demanding situations.**

A favorite among process professionals, ARO EXP diaphragm pumps are a truly versatile solution for numerous applications. Known for its efficiency and reliability, flow rates of up to 275 GPM (1041 LPM) and a large range of material and porting configurations, ARO has the right pump for your application.



**Productivity** - Maximized flow rates + Minimized pulsation and air consumption = Maximum Performance

**Versatility** - Multiple porting options available along with interface options allow you to customize 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 will minimize repair time and cost.

**Connectivity** - Electronic interface option enables interface with other electronic devices, provides precision cycle control and feedback.

## Where's Your EXP Opportunity?



See reverse side for additional information.



## Key Feature / Benefits

- ▶ **Stall-Free, Ice-Free Air Motor Design** – EXP air motor offers a unique combination of technology for reliable operation.
  - Unbalanced valve design eliminates valve centering and stall-out, even under low air inlet pressures. Eliminates the need for “percussion” maintenance.
  - Simul-Shift™ valve technology provides a reliable shift signal that avoids stall-out, insures faster pump trip over for more flow and less pulsation.
  - Quick Dump™ checks eliminate ice buildup in the pump by diverting cold, wet exhaust away from the major valve effectively eliminating motor icing.
- ▶ **Bolted construction** for leak free integrity providing a safer work environment and makes maintenance much easier and faster.
- ▶ **Materials of construction** available in a wide array to meet the most demanding fluid handling needs. Select the appropriate materials for your most demanding fluid handling needs.
- ▶ **Porting sizes and options** in a variety of options to simplify installation and provide leak free integrity. Options include threaded or flanged along with side or center porting.
- ▶ **Long lasting convoluted diaphragms** last up to four times longer than traditional diaphragms, do not require inversion during assembly and the PTFE diaphragms provide the same output as standard elastomers.



Models	1" Non-Metallic	1-1/2" Non-Metallic	2" Non-Metallic	1" Metallic	1-1/2" Metallic	2" Metallic	3" Metallic
Maximum Flow gpm (lpm)	53 (200)	123 (465)	184 (696)	52 (197)	123 (465)	172 (651)	275 (1,041)
Maximum Discharge Pressure psi (bar)	120 (8.3)	120 (8.3)	120 (8.3)	120 (8.3)	120 (8.3)	120 (8.3)	120 (8.3)
Material of Construction	Polypropylene PVDF	Polypropylene PVDF	Polypropylene PVDF	Aluminum Cast Iron Stainless Steel Hastelloy®	Aluminum Cast Iron Stainless Steel Hastelloy®	Aluminum Cast Iron Stainless Steel Hastelloy®	Aluminum Cast Iron Stainless Steel Hastelloy®
Maximum Solids in (mm)	1/8" (3.2)	1/4" (6.4)	1/4" (6.4)	1/8" (3.32)	1/4" (6.4)	1/4" (6.4)	3/8" (9.5)
Maximum Dry Suction Lift ft (m)	19 (5.7)	14 (4.2)	14 (4.2)	19 (5.7)	14 (4.2)	19 (5.7)	19 (5.7)

Hastelloy-C® is a registered trademark of Haynes International, Inc.