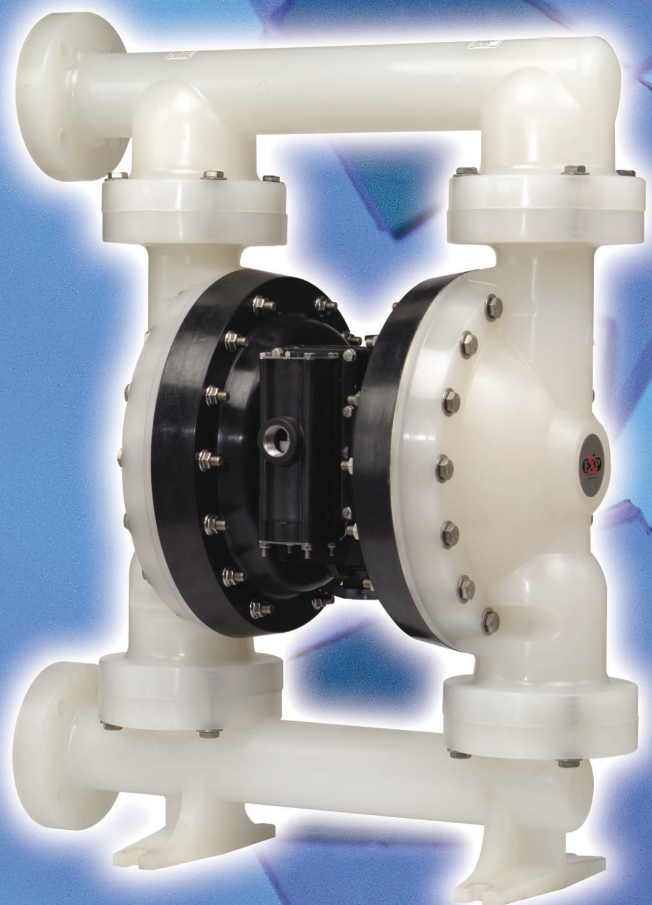




Expert Series Diaphragm Pumps

2-Inch Fluid Ports, Non-Metallic Construction



The Ultimate Process Pump Has Arrived: The **EXP** 2-Inch Non-Metallics

Expert Series Pumps

From its simple beginnings as a utility dewatering/ trash pump, thru its various phases of design evolution, the diaphragm pump has been a favorite with process professionals everywhere. Why? Simplicity. The ARO EXP design team has taken this fundamental feature and engineered effi-

ciency, compatibility and economy into every aspect of the new EXP 2-inch non-metallic pump. Economy in fewer repair parts and labor. Economy in saved energy. Economy in superior performance. Want to reduce pump downtime while boosting production? Here it is.

Side Fluid Inlet/Outlet Ports

Easy to install side porting permits fast plumb-up while avoiding fluid material leaking directly onto the pump. The EXP flange bolt pattern meets both DIN/ANSI requirements.

Body Materials of Construction

Choose from natural PVDF or natural polypropylene for optimum fluid compatibility and corrosion resistance.

Ribless Fluid Caps

Originally intended to provide greater structural integrity, many non-metallic diaphragm pump designs incorporate ribbed fluid caps. Since that time, state-of-the-art Finite Element Analysis testing has proven that fluid cap ribs are actually stress points that weaken rather than strengthen overall structural integrity. No ribs also allow for easier cleaning and washdown.

Corrosion- Resistant Center Body

Heavy Duty (Thermoset Vinyl Ester) Air Caps - Relied on for improved centrifugal pump component life throughout the process industries, thermoset vinyl ester has been proven to provide unrivaled chemical, high temperature and corrosion resistance. The EXP 2" pump makes use of this industry

preferred material with an air cap design that's not only chemically-compatible but ultra-strong and stress-free.

Non-Metallic Air Motor - Featuring a glass-filled polypropylene construction, the EXP air motor is both strong and resistant to chemical attack.

Long-Lasting Convoluted Diaphragms

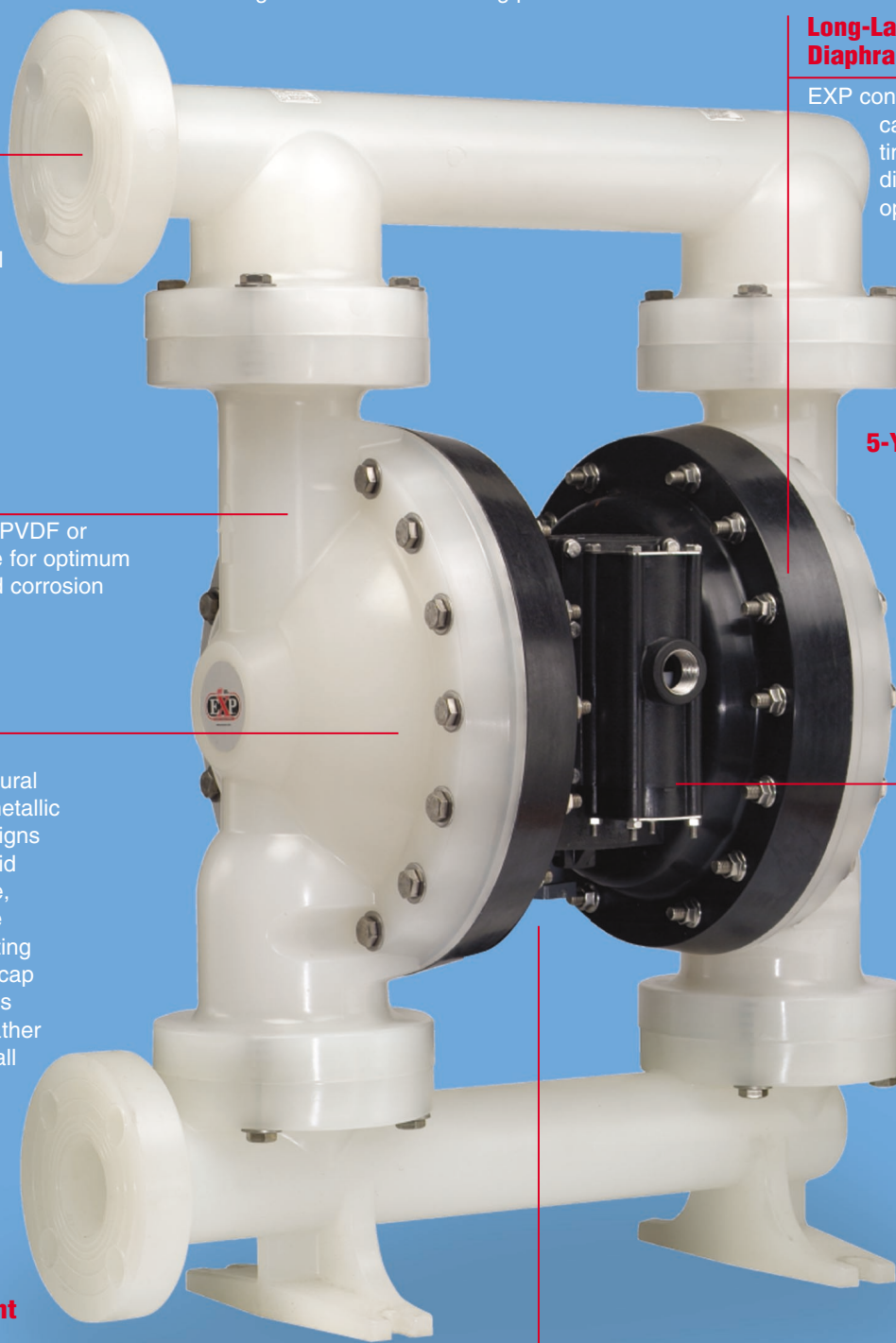
EXP convoluted diaphragms can last as long as 4 times that of traditional diaphragms under normal operating conditions.

5-Year Warranty

Stall-Free, Ice-Free Air Motor Design

The new EXP 2" air motor has exclusive SimulShift trip rod technology to help insure faster pump trip-over with smoother flow. It also features Quick Dump™ valves; the final answer to pump stalling due to ice build-up.

Stainless Steel Hardware - EXP air motor and end cap fasteners are made of 316 stainless steel for complete corrosion resistance.



Performance Specifications

RATIO:	1:1
MAXIMUM G.P.M. (L.P.M.):	184 (696)
DISPLACEMENT GALLONS (Liters) PER CYCLE:	1.4 (5.3)
AIR INLET:	3/4" NPTF (f)
FLUID INLET:	ANSI / DIN Flange
FLUID OUTLET:	ANSI / DIN Flange
MAX. OPERATING PRESSURE P.S.I. (bar):	120 (8.3)
SUSPENDED SOLIDS MAX. DIA. IN. (mm):	1/4-inch (6.4)
WEIGHT - LBS. (Kg):	85 (39) Polypropylene, 11 (50) Kynar® (PVDF)
MAXIMUM DRY SUCTION LIFT:	14 ft. (Rubber fitted)



Ordering

P D 2 0 P - F X S - X X X

Center Section	P	Polypropylene/ Vinyl Ester	Wetted Parts	P	Polypropylene	Hardware	S	Stainless Steel	Seat Material	P	Polypropylene	Ball Material	A	Santoprene®	Diaphragm Material	A	Santoprene
	K	PVDF (Kynar®)		K	PVDF (Kynar®)		S	Stainless Steel		K	PVDF (Kynar®)		G	Nitrile		G	Nitrile
Connection	F	2" ANSI / DIN Flange											T	Teflon®		T	Teflon®/ Santoprene
													V	Viton®		V	Viton®

Are EXP Energy Savings For Real? Lets Do The Math: EXP (ARO) Vs. Most "Advanced" Competitor

Test Subjects: 2" (Ports) Polypropylene
Constructed Pumps with Teflon
Diaphragms

Pump Operation: 8 Hours a Day/5 Days a
Week/250 Days
a Year = 2,000 Hours

Pump Delivery: 100 GPM @ 25 PSI (Back Pressure)

Energy Cost: \$0.06 Per Kilowatt Hour

EXP Air CFM Advantage: 37 @ 100 GPM

EXP Annual Cost Savings Per Pump: \$618.93



Do the Math and See the Savings!

Note: Testing of pumps based on Hydraulic Institute / ANSI (10.6) air-operated pump test guidelines. All tests were conducted on new, out-of-the-box models. Both pumps were tested on Hydraulic Institute - conforming test loop at 25 PSI back pressure, pumping 100 gallons per minute. The fluid being pumped was water. For complete test guidelines and information contact the manufacturer.

EXP Accessories

Air Line Kit

Heavy-duty kit includes an air line "piggy-back" filter/regulator with sight gauge, pipe nipple and 5-foot length of air hose for quick installation.

Order Model: 66473



Model 66473

Heavy-Duty Muffler

Muffler provides significant pump noise reduction. Engineered thermoplastic construction is corrosion-resistant and durable.

Order Model: 67323



Model 67323



Where's Your EXP Opportunity?

- Tanker / Truck / Train Unloading
- Bulk Tank / Tank Farm Transfer
- Waste Water Treatment / Fluid Filtration
- Formulation
- Basic Transfer / Supply
- Packaging / Filling
- Batching / Blending
- System Flush
- Recirculation / Reclamation

Chemical Processing

Formulation Of:

- ☐ Soaps
- ☐ Detergents
- ☐ Cleansing / Polishing Agents
- ☐ Paints / Dyes
- ☐ Adhesives
- ☐ Inks
- ☐ Shear Sensitive Materials

Surface Preparation:

Supply and Transfer of:

- ☐ e-Coat
- ☐ Etching
- ☐ Plating

Pharmaceuticals

Supply and Transfer of:

- ☐ FDA Materials

Get the Whole EXP Story!

Find out more about how the EXP Diaphragm Pump can "Solutionize" the high cost-of-total-pump-ownership thru superior air valve design and a host of other EXP-only features. Ask for the EXP Capability Brochure, Form # 0218-P.



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