

# SALES & ENGINEERING DATA

## PD07P-XPS-PXX

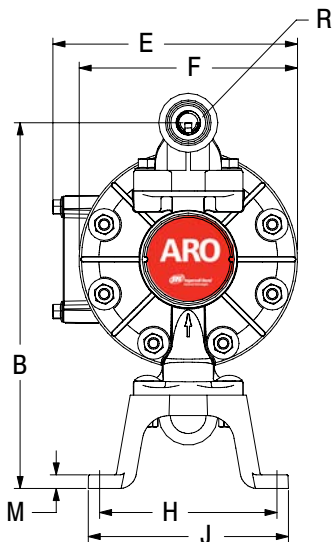
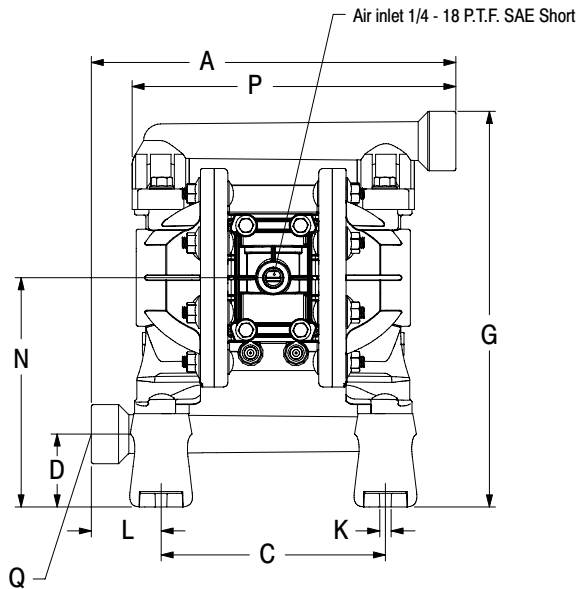
### 3/4" NON-METALLIC DIAPHRAGM PUMP

RATIO  
SERIES: 1:1

FLUID P.S.I.  
RANGE: 10 - 100

RELEASED: 12-4-06  
REVISED: 6-8-10  
(REV. 03) S-1409

#### DIMENSIONAL DATA



#### DIMENSIONS

|                         |                          |                        |
|-------------------------|--------------------------|------------------------|
| A - 10-1/16" (254.2 mm) | F - 6-1/32" (153.1 mm)   | L - 1-15/16" (48.9 mm) |
| B - 10-3/32" (256.1 mm) | G - 10-29/32" (276.8 mm) | M - 3/8" (9.6 mm)      |
| C - 6-3/16" (157.1 mm)  | H - 4-29/32" (124.2 mm)  | N - 6-5/16" (160.5 mm) |
| D - 2" (51.0 mm)        | J - 5-17/32" (140.2 mm)  | P - 8-7/8" (225.3 mm)  |
| E - 6-3/4" (171.0 mm)   | K - 5/16" (8.0 mm)       |                        |

|               |                       |                       |
|---------------|-----------------------|-----------------------|
| Model         | "Q" Material Inlet    | "R" Material Outlet   |
| PD07P-APS-PXX | 3/4 - 14 N.P.T.F. - 1 | 3/4 - 14 N.P.T.F. - 1 |
| PD07P-BPS-PXX | Rp 3/4 (3/4 - 14 BSP) | Rp 3/4 (3/4 - 14 BSP) |

NOTE: Dimensions are shown in inches and (mm) and are supplied for reference only.

#### SPECIFICATIONS

##### CONSTRUCTION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Model Series                     | PD07P-XPS-PXX                                |
| Pump Type                        | Non-Metallic, Air Operated, Double Diaphragm |
| Ratio                            | 1:1                                          |
| Material Inlet / Outlet (female) |                                              |
| PD07P-APS-PXX                    | 3/4 - 14 N.P.T.F. - 1                        |
| PD07P-BPS-PXX                    | Rp 3/4 (3/4 - 14 BSP parallel)               |
| Air Inlet (female)               | 1/4 - 18 P.T.F. SAE short                    |
| Air Exhaust (standard)           | internal                                     |
| (optional)(female)               | 3/8 - 18 N.P.T.F. - 1                        |
| Weight                           | 5.61 lbs (2.54 kgs)                          |
| Air Section Service Kit          | 637428                                       |
| Fluid Section Service Kit        | 637427-XX                                    |

PD07P-XPS- P ☒ ☒  
637427 - ☒ ☒  
Diaphragm Material  
Ball Material

EXAMPLE: Model #PD07P-APS-PAA  
Fluid Section Service Kit is 637427-AA

##### PERFORMANCE

|                                                               |                                  |
|---------------------------------------------------------------|----------------------------------|
| Air Inlet Pressure Range                                      | 10 - 100 p.s.i. (0.69 - 6.9 bar) |
| Maximum Material Inlet Pressure                               | 10 p.s.i. (0.69 bar)             |
| Fluid Outlet Pressure Range                                   | 10 - 100 p.s.i. (0.69 - 6.9 bar) |
| Maximum Flow Rate (flooded inlet)                             | 14.8 g.p.m. (56.0 l.p.m.)        |
| Displacement / Cycle @ 100 p.s.i.                             | 0.032 gal. (0.12 lit.)           |
| Maximum Particle Size                                         | 3/32" dia. (2.4 mm)              |
| Maximum Temperature Limits (diaphragm / ball / seat material) |                                  |
| Hytel                                                         | -20° to 150° F (-29° to 66° C)   |
| Polypropylene                                                 | 35° to 150° F (2° to 66° C)      |
| Santoprene                                                    | -40° to 225° F (-40° to 107° C)  |
| PTFE                                                          | 40° to 225° F (4° to 107° C)     |
| Noise Level @ 70 p.s.i. - 60 c.p.m.①                          | 75.0 db(A)②                      |

##### Notes:

- ① Tested with 67367 muffler assembly installed.
- ② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L<sub>Aeq</sub>) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

##### ACCESSORIES:

66073-1 Air Line Connection Kit  
637438 Ported Exhaust Kit  
93110 Muffler

airpumping.co.uk

Unit 16, Upminster Trading Park, Warley St, Upminster, Essex, RM14 3PJ, ENGLAND

**ARO**   
Industrial Technologies

# PERFORMANCE CURVES

## PD07P-XPS-PXX 3/4" NON-METALLIC DIAPHRAGM PUMP

