

# SALES & ENGINEERING DATA

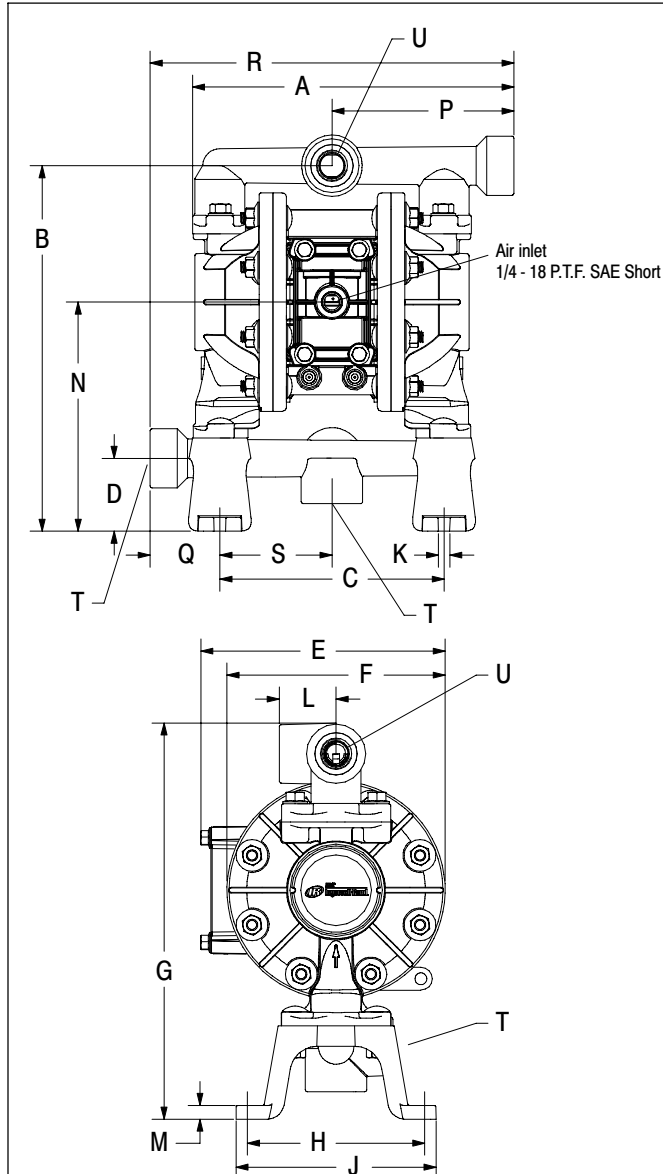
## PD05P-XXS-XXX-B

### 1/2" NON-METALLIC DIAPHRAGM PUMP

|                        |          |
|------------------------|----------|
| RATIO<br>SERIES:       | 1:1      |
| FLUID P.S.I.<br>RANGE: | 10 - 100 |

RELEASED: 9-14-05  
REVISED: 9-25-06  
(REV. 03) S-1380

#### DIMENSIONAL DATA



#### DIMENSIONS

|                       |                      |                      |
|-----------------------|----------------------|----------------------|
| A 8-27/32" (224.3 mm) | G 10-7/8" (275.7 mm) | N 6-5/16" (159.9 mm) |
| B 10-1/16" (255.0 mm) | H 4-7/8" (123.8 mm)  | P 5" (127.0 mm)      |
| C 6.164" (156.6 mm)   | J 5-1/2" (139.7 mm)  | Q 1-59/64" (48.8 mm) |
| D 2" (50.8 mm)        | K 5/16" (8.0 mm)     | R 10" (254.0 mm)     |
| E 6-23/32" (170.6 mm) | L 1-9/16" (39.7 mm)  | S 3-3/32" (78.3 mm)  |
| F 6" (152.4 mm)       | M 3/8" (9.5 mm)      |                      |

|                 |                       |                       |
|-----------------|-----------------------|-----------------------|
| Model           | "T" Material Inlet    | "U" Material Outlet   |
| PD05P-AXS-XXX-B | 1/2 - 14 N.P.T.F. - 1 | 1/2 - 14 N.P.T.F. - 1 |
| PD05P-BXS-XXX-B | Rp 1/2 (1/2 - 14 BSP) | Rp 1/2 (1/2 - 14 BSP) |

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

#### SPECIFICATIONS

##### CONSTRUCTION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Model Series                     | PD05P-XXS-XXX-B                              |
| Pump Type                        | Non-Metallic, Air Operated, Double Diaphragm |
| Ratio                            | 1:1                                          |
| Material Inlet / Outlet (female) |                                              |
| PD05P-AXS-XXX-B                  | 1/2 - 14 N.P.T.F. - 1                        |
| PD05P-BXS-XXX-B                  | Rp 1/2 (1/2 - 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                           |                                              |
| PD05P-XDS-XXX-B                  | 6.28 lbs (2.85 kgs)                          |
| PD05P-XES-XXX-B                  | 6.67 lbs (3.03 kgs)                          |
| PD05P-XKS-XXX-B                  | 6.78 lbs (3.08 kgs)                          |
| PD05P-XLS-XXX-B                  | 7.24 lbs (3.28 kgs)                          |
| PD05P-XPS-XXX-B                  | 5.21 lbs (2.36 kgs)                          |
| PD05P-XRS-XXX-B                  | 5.44 lbs (2.47 kgs)                          |
| Air Section Service Kit          | 637428                                       |
| Fluid Section Service Kit        | 637427-XX                                    |

PD05P-XXS- X X X -B  
637427 - X X

Diaphragm Material  
Ball Material

EXAMPLE: Model #PD05P-ARS-SAA-B  
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)                             | 14.4 g.p.m. (54.5 l.p.m.)        |
| Displacement / Cycle @ 100 p.s.i.                             | 0.039 gal. (0.15 lit.)           |
| Maximum Particle Size                                         | 3/32" dia. (2.4 mm)              |
| Maximum Temperature Limits (diaphragm / ball / seat material) |                                  |
| Acetal                                                        | 10° to 180° F (-12° to 82° C)    |
| Hytrek                                                        | -20° to 150° F (-29° to 66° C)   |
| Kynar PVDF                                                    | 10° to 200° F (-12° to 93° C)    |
| Nitrile                                                       | 10° to 180° F (-12° to 82° C)    |
| Polypropylene                                                 | 35° to 150° F (2° to 66° C)      |
| Polyurethane                                                  | 10° to 150° F (-12° to 66° C)    |
| Santoprene                                                    | -40° to 225° F (-40° to 107° C)  |
| Teflon PTFE                                                   | 40° to 225° F (4° to 107° C)     |
| Viton                                                         | -40° to 350° F (-40° to 177° 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

# PERFORMANCE CURVES

## PD05P-XXS-XXX-B 1/2" NON-METALLIC DIAPHRAGM PUMP

