

SALES & ENGINEERING DATA

RATIO SERIES: **1:1**

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

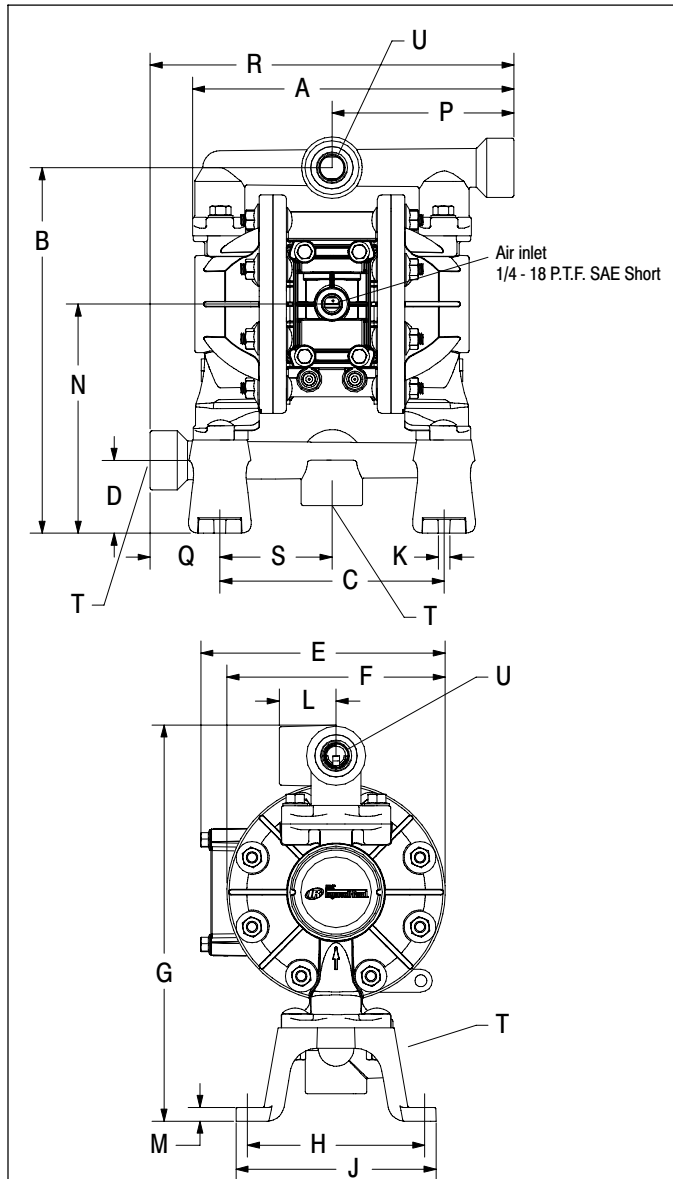
PD05P-XXS-XXX-B

1/2" NON-METALLIC DIAPHRAGM PUMP



RELEASED: 9-14-05
 REVISED: 8-7-15
 (REV. G) 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) |
| Hytre | -20° to 180° F (-29° to 82° C) |
| Kynar PVDF | 10° to 200° F (-12° to 93° C) |
| Nitrile | 10° to 180° F (-12° to 82° C) |
| Polypropylene | 35° to 175° F (2° to 79° C) |
| Polyurethane | 10° to 150° F (-12° to 66° C) |
| Santoprene | -40° to 225° F (-40° to 107° C) |
| 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_{Aeq}) 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

