SALES & ENGINEERING DATA

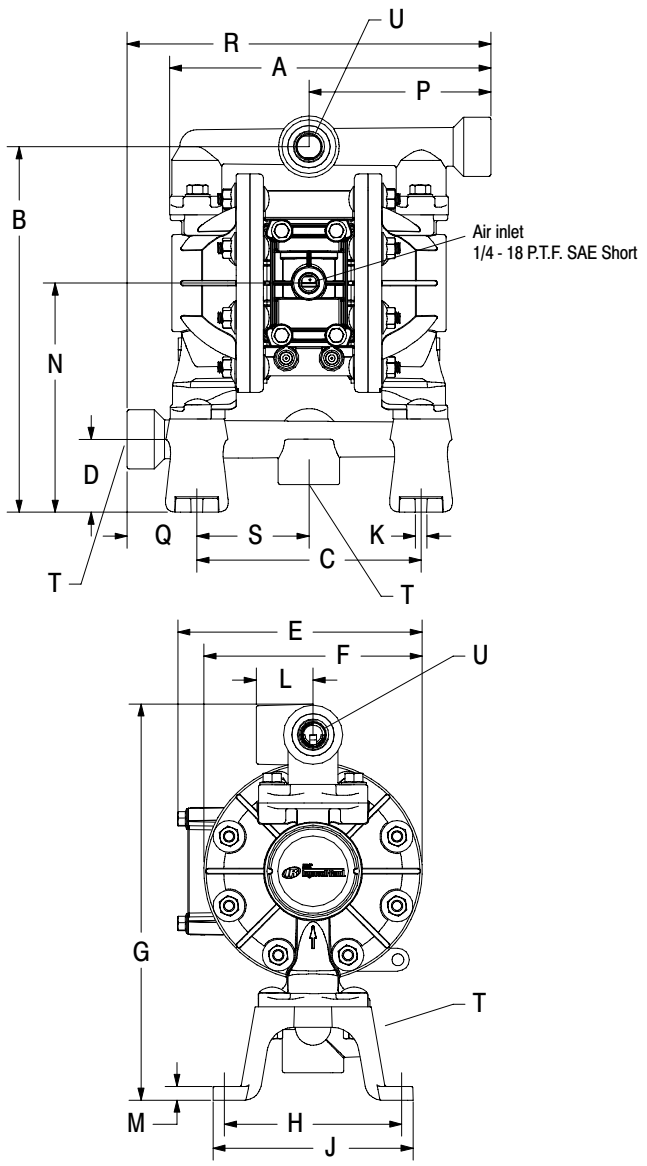
RATIO SERIES:	1:1
FLUID P.S.I. RANGE:	10 - 100

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)
Hytrel . . . . . -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

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PERFORMANCE CURVES

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

