

SALES & ENGINEERING DATA

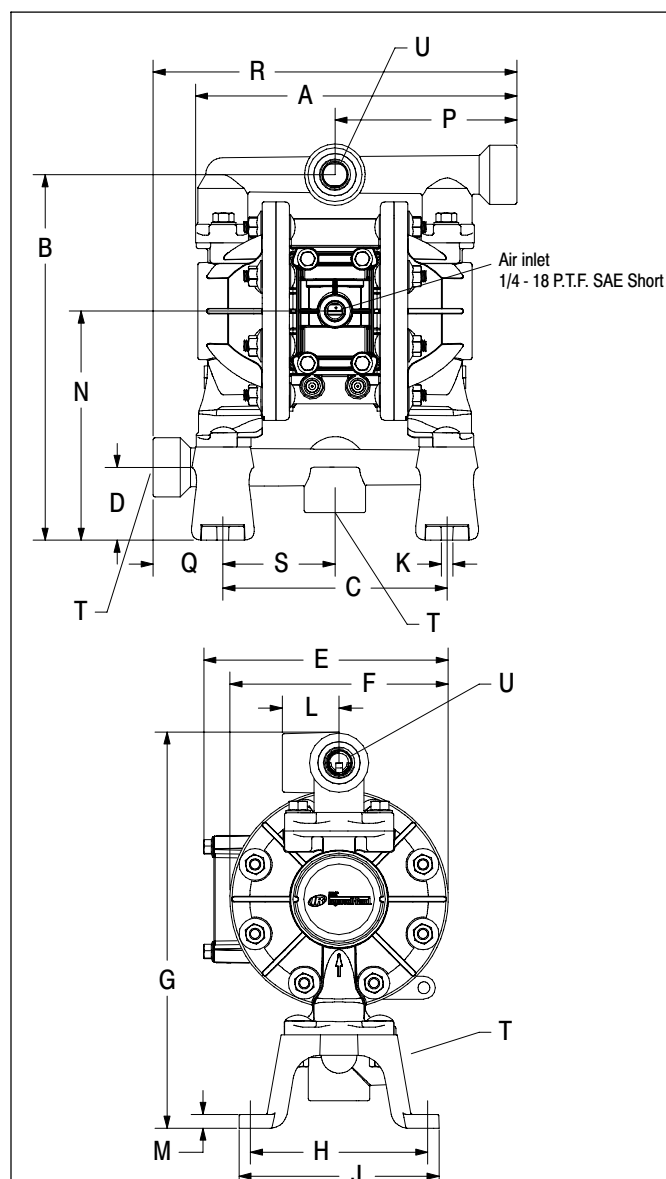
PD05P-XXS-XXX-B

1/2" NON-METALLIC DIAPHRAGM PUMP

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

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 ☒ ☒ ☒ -B
 637427 - ☒ ☒ ☒

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 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

INGERSOLL RAND COMPANY LTD
 209 NORTH MAIN STREET - BRYAN, OHIO 43506

① (800) 495-0276 • FAX(800) 892-6276
 arozone.com

© 2015

CCN 15252927

ARO Ingersoll Rand

PERFORMANCE CURVES

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

