SALES & ENGINEERING DATA

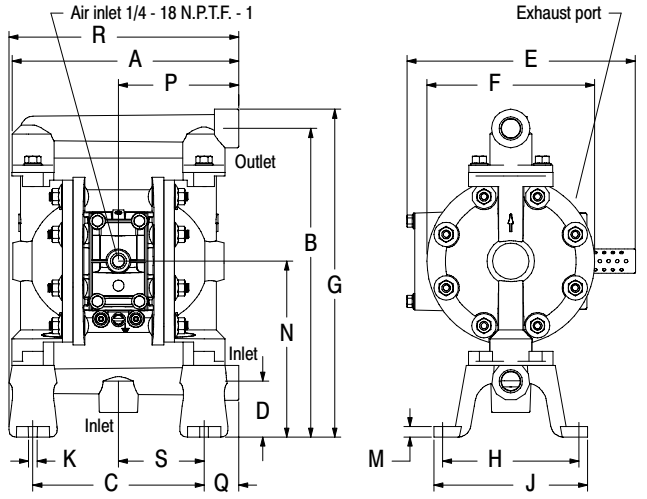
RATIO SERIES:	1:1
FLUID P.S.I. RANGE:	10 - 100

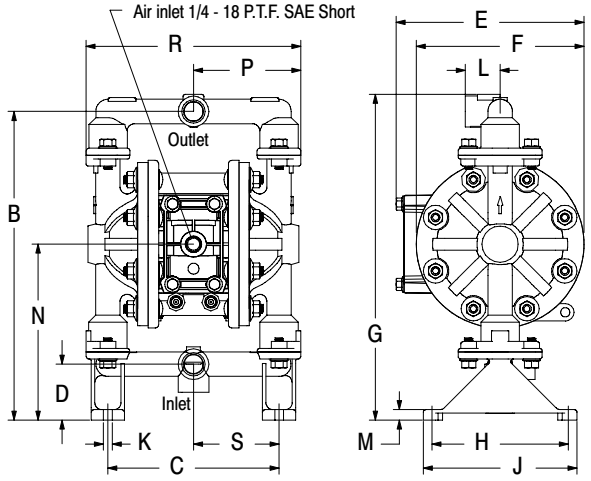
PD05A-XXS-XXX-B & PD05R-XXS-XXX-B

1/2" METALLIC DIAPHRAGM PUMP

RELEASED: 11-23-05
REVISED: 6-8-10
(REV. 04) S-1381

DIMENSIONAL DATA





DIMENSIONS

A	8-1/8" (206.0 mm)	G	see below	N	6-5/16" (159.9 mm)
B	11-1/16" (280.4 mm)	H	4-7/8" (123.8 mm)	P	see below
C	6-1/8" (155.6 mm)	J	5-1/2" (139.7 mm)	Q	1-1/4" (31.6 mm)
D	2" (50.8 mm)	K	5/16" (8.0 mm)	R	see below
E	see below	L	1-1/4" (31.8 mm)	S	3-1/16" (77.8 mm)
F	6" (152.4 mm)	M	3/8" (9.5 mm)		

Dimension	PD05A-XXS-XXX-B	PD05R-XXS-XXX-B
"E"	8-3/16" (207.9 mm)	6-23/32" (170.6 mm)
"G"	11-3/4" (297.9 mm)	11-21/32" (296.0 mm)
"P"	4-5/16" (109.3 mm)	3-27/32" (97.4 mm)
"R"	8-7/32" (208.5 mm)	7-11/16" (194.9 mm)

NOTE: Dimensions are shown in inches and (mm), supplied for reference only and are typically rounded up to the nearest 1/16 inch.

SPECIFICATIONS

CONSTRUCTION

Model Series PD05X-XXS-XXX-B
Pump Type . . . . . Metallic, Air Operated, Double Diaphragm
Ratio 1:1
Material Inlet / Outlet (female)
PD05X-AXS-XXX-B . . . . . 1/2 - 14 N.P.T.F. - 1
PD05X-BXS-XXX-B . . . . . Rp 1/2 (1/2 - 14 BSP, parallel)
Air Inlet (female)
PD05A-XXS-XXX-B . . . . . 1/4 - 18 N.P.T.F. - 1
PD05R-XXS-XXX-B . . . . . 1/4 - 18 P.T.F. SAE short
Air Exhaust (PD05A-XXS-XXX-B) . . . 3/8 - 18 N.P.T.F. - 1
(PD05R-XXS-XXX-B) . . . internal
(optional)(PD05R-X-X-B) 3/8 - 18 N.P.T.F. - 1
Weight . . PD05A-XAS-XXX-B . . . . 10.36 lbs (4.70 kgs)
PD05A-XSS-XXX-B . . . . 16.57 lbs (7.52 kgs)
PD05R-XAS-XXX-B . . . . 8.04 lbs (3.65 kgs)
PD05R-XSS-XXX-B . . . . 14.25 lbs (6.46 kgs)
Air Section Service Kit 637428
Fluid Section Service Kit 637427-XX

PD05X-XXS- X [X][X]-B
637427 - [X][X]
Diaphragm Material
Ball Material

EXAMPLE: Model #PD05A-AAS-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) . . 12.0 g.p.m. (45.4 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)
E.P.R. / EPDM . . . . . -60° to 280° F (-51° to 138° C)
Hytrel . . . . . -20° to 150° F (-29° to 66° 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)
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

PD05X-XXS-XXX-B 1/2" METALLIC DIAPHRAGM PUMP

