

SALES & ENGINEERING DATA

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

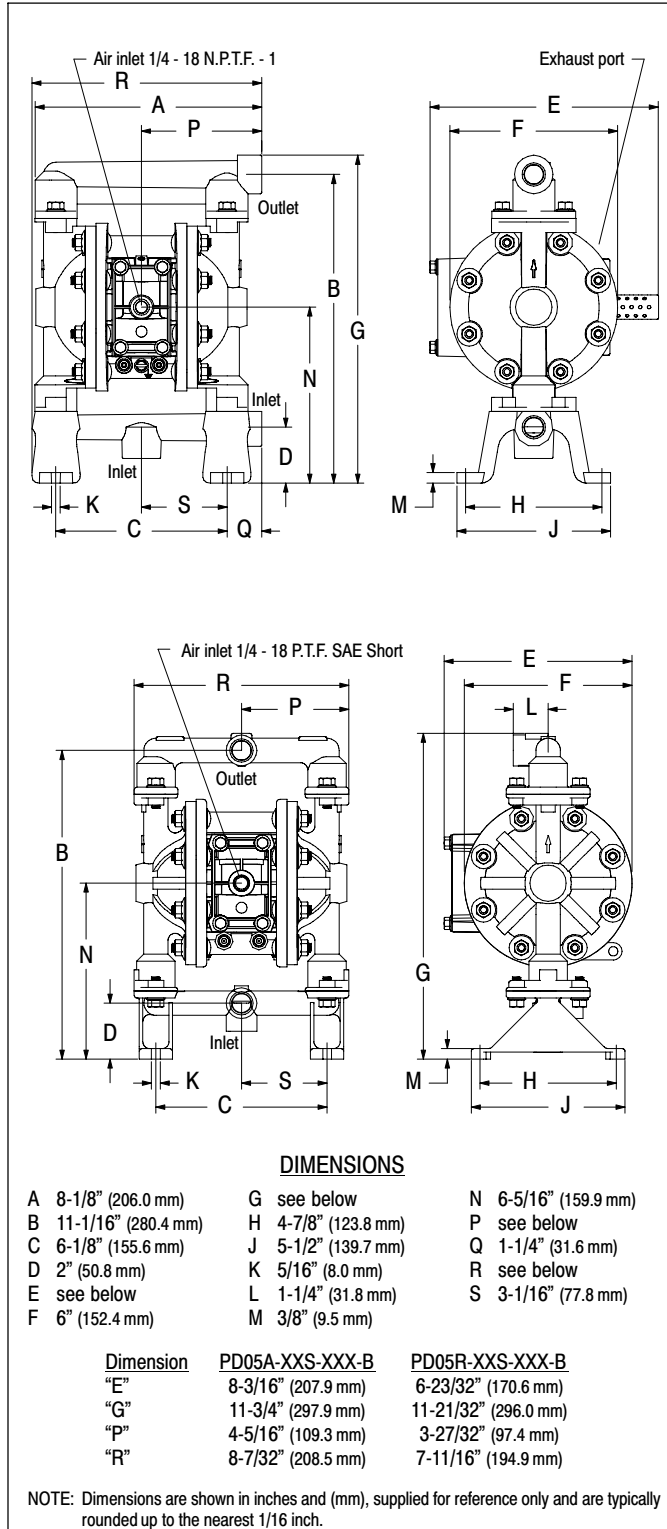
1/2" METALLIC DIAPHRAGM PUMP

RATIO
SERIES: 1:1

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

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

DIMENSIONAL DATA



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)
Hytrek	-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

airpumping.co.uk

est. 1979

Unit 16, Upminster Trading Park, Warley St., Upminster, Essex, RM14 3PJ, ENGLAND

ARO

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PERFORMANCE CURVES

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

