

SALES & ENGINEERING DATA

RATIO
SERIES: **1:1**

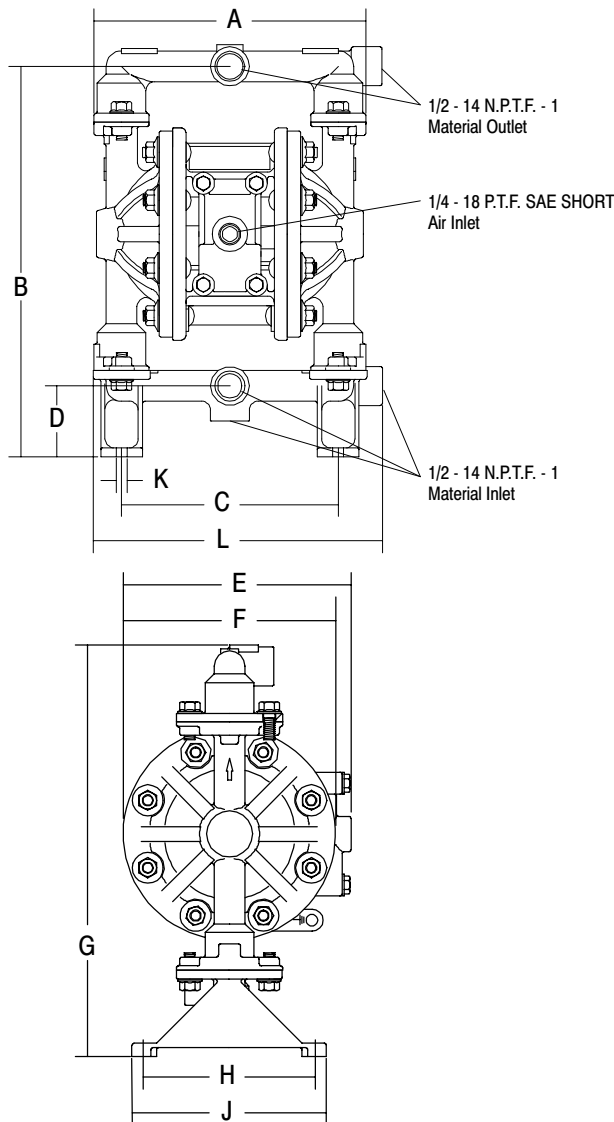
FLUID P.S.I.
RANGE: **20 - 100**

PD05P-AXS-XXX

1/2" DIAPHRAGM PUMP

RELEASED: 5-15-98
REVISED: 7-21-00
S-933

DIMENSIONAL DATA



DIMENSIONS

A	7-11/16" (195 mm)	E	6-7/16" (164 mm)	J	5-1/2" (140 mm)
B	11-1/16" (280 mm)	F	6" (152 mm)	K	5/16" (8 mm)
C	6-1/8" (156 mm)	G	11-5/8" (295 mm)	L	8-1/4" (209 mm)
D	2" (51 mm)	H	4-7/8" (124 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	PD05P-AXS-XXX
Pump Type	Air Operated, Double Diaphragm
Ratio	1:1
Material Inlet / Outlet	1/2 - 14 N.P.T.F. - 1 (female)
Air Inlet	1/4 - 18 P.T.F. SAE Short (f)
Air Exhaust (standard)	internal
(optional)	3/8 - 18 N.P.T.F. - 1 (female)
Weight (models PD05P-AAS-XXX)	8.36 lbs (3.8 kgs)
(models PD05P-ASS-XXX)	14.6 lbs (6.6 kgs)
Air Section Service Kit	637141
Fluid Section Service Kit	637140-XX

PD05P - AXS - X ☒ ☒
637140 - ☒ ☒
Diaphragm Material
Ball Material

EXAMPLE: Model PD05P-ASS-SAA
Fluid Section Service Kit is 637140-AA

PERFORMANCE

Air Inlet Pressure Range	20 - 100 p.s.i. (1.4 - 6.9 bar)
Maximum Material Inlet Pressure	10 p.s.i.g. (.69 bar)
Fluid Pressure Range	20 - 100 p.s.i. (1.4 - 6.9 bar)
Maximum Flow Rate (Flooded Inlet)	13 g.p.m. (49.2 l.p.m.)
Air Consumption	1 c.f.m. / gallon (approx.)
Maximum Particle Size	3/32" dia. (2.4 mm)
Maximum Temperature Limits	
models PD05P-AXS-PXX	150°F (66°C)
models PD05P-AXS-SXX	200°F (93°C)
Displacement / Cycle @ 100 p.s.i.	0.040 gal. (0.15 l)
Noise Level @ 70 p.s.i., 60 c.p.m. ^①	71.1 db(A) ^②

Notes:

- ① Tested with 66972 muffler 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
93092 Plate*
93107 Gasket*
93110 Muffler*

* External muffler for piped exhaust applications.



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INGERSOLL-RAND
FLUID PRODUCTS

PERFORMANCE CURVES

PD05P-AXS-XXX 1/2" DIAPHRAGM PUMP

