

# SALES & ENGINEERING DATA

RATIO SERIES: **1:1**

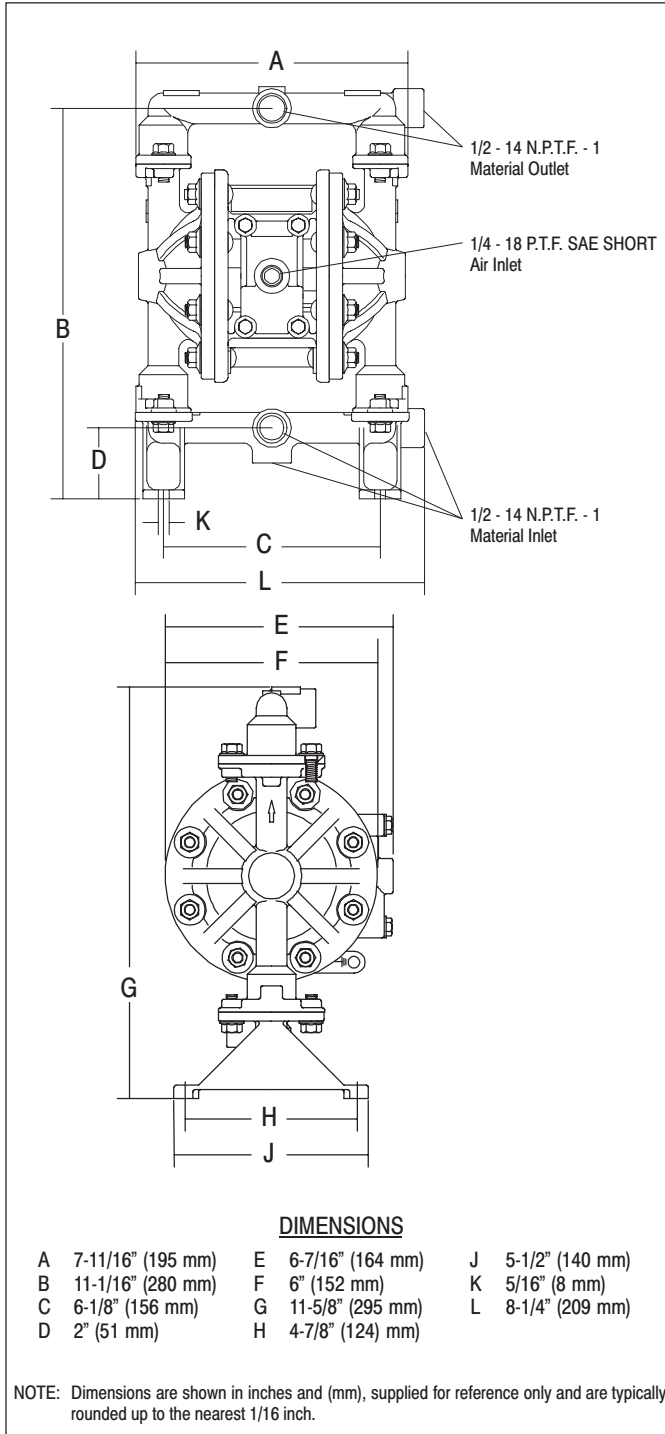
FLUID P.S.I. RANGE: **20 - 100**

## PD05P-AXS-XXX

### 1/2" DIAPHRAGM PUMP

RELEASED: 5-15-98  
 REVISED: 9-16-11  
 (REV. 02) S-933

#### DIMENSIONAL DATA



#### SPECIFICATIONS

##### CONSTRUCTION

Model Series ..... PD05P-AXS-XXX  
 Pump Type ..... Air Operated, Double Diaphragm  
 Ratio ..... 1:1  
 Material Inlet / Outlet (female) ..... 1/2 - 14 N.P.T.F - 1  
 Air Inlet (female) ..... 1/4 - 18 P.T.F. SAE Short  
 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-EXX ..... 200°F (93°C)  
 models PD05P-AXS-PXX ..... 175°F (79°C)  
 models PD05P-AXS-SXX ..... 200°F (93°C)  
 Displacement / Cycle @ 100 p.s.i. ... 0.040 gal. (0.15 lit.)  
 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-PNEUROPS 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.

# PERFORMANCE CURVES

## PD05P-AXS-XXX 1/2" DIAPHRAGM PUMP

