

# SALES & ENGINEERING DATA

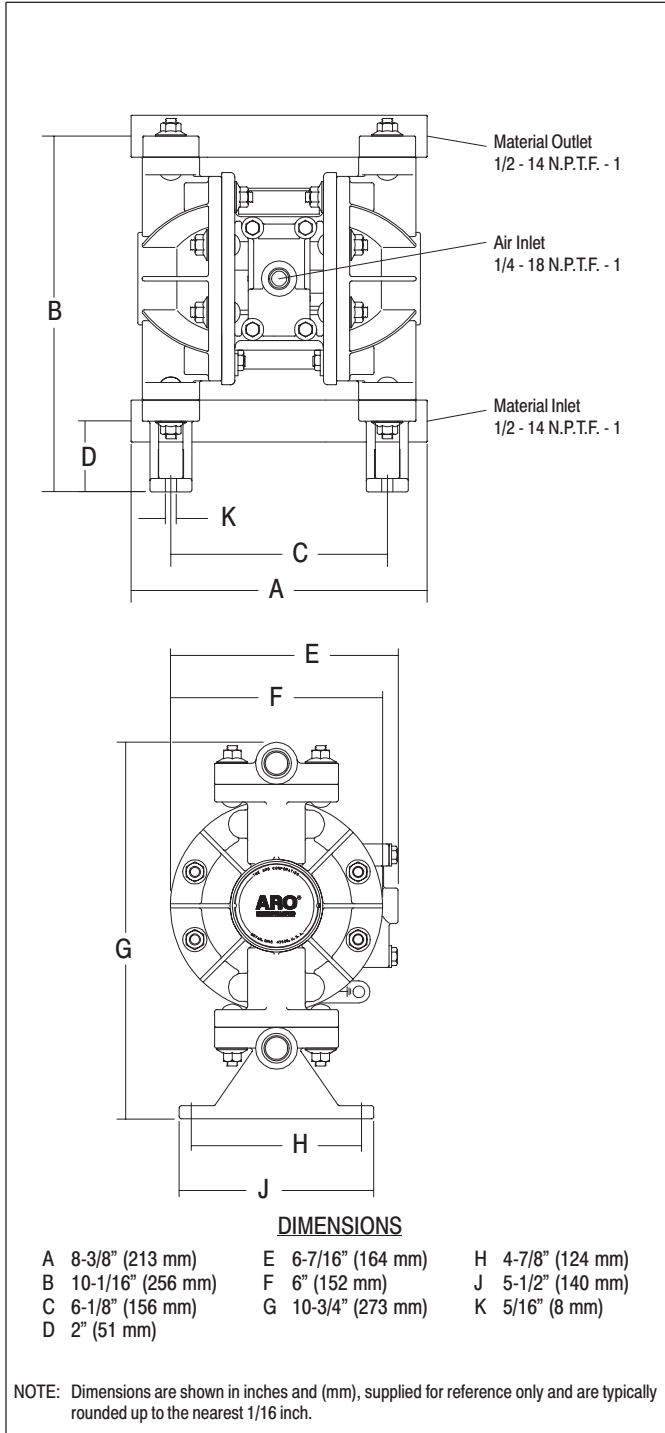
RATIO SERIES: **1:1**

FLUID PSI RANGE: **20 - 100**

## 650781-XXX, 650782-XXX & 650783-XXX 1/2" NON-METALLIC DIAPHRAGM PUMP

RELEASED: 5-1-98  
REVISED: 1-11-02  
S-950

### DIMENSIONAL DATA



### SPECIFICATIONS

#### CONSTRUCTION

Model Series	650781-XXX
Pump Type	Non-Metallic, Air Operated, Double Diaphragm <sup>®</sup>
Ratio	1:1
Material Inlet / Outlet	1/2 - 14 N.P.T.F. - 1 (female)
Air Inlet	1/4 - 18 N.P.T.F. - 1 (female)
Air Exhaust	standard - internal optional - 3/8 - 18 N.P.T.F. - 1 (female)
Weight	650781-XXX 7.2 lbs (3.3 kgs) 650782-XXX 8.8 lbs (4.0 kgs) 650783-XXX 9.5 lbs (4.3 kgs)
Air Section Service Kit	637141
Fluid Section Service Kit	637140-XX

65078X - X    
637140 -    
Diaphragm Material  
Ball Material

EXAMPLE: Model 650781-3EB  
Fluid Section Service Kit is 637140-EB

#### PERFORMANCE

Air Inlet Pressure Range	20 - 100 PSI (1.4 - 6.9 bar)
Maximum Material Inlet Pressure	10 PSI (0.69 bar)
Fluid Pressure Range	20 - 100 PSI (1.4 - 6.9 bar)
Maximum Flow Rate (flooded inlet)	7 g.p.m. (26.5 l.p.m.)
Maximum Particle Size	3/32" dia. (2.4 mm)
Maximum Temperature Limits	
650781-XXX	35° to 150°F (2° to 66°C)
650782-XXX	10° to 180°F (-12° to 82°C)
650783-XXX	10° to 200°F (-12° to 93°C)
Displacement / Cycle @ 100 psi	0.023 gal (0.087 l)
Noise Level @ 70 Psi - 60 Cpm <sup>①</sup>	71.1 db(A) <sup>②</sup>

#### Notes:

- ① Tested with 66972 Muffler installed.
- ② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L<sub>Aeq</sub>) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROPS S5.1 using four microphone locations.
- ③ 650782-XXX models are constructed of a groundable acetal. The material's conductivity allows it to be connected to a suitable ground.

#### ACCESSORIES:

66073-1 Air Line Connection Kit  
93092 Exhaust Cover\*  
93107 Gasket\*  
93110 Muffler\*

\* External muffler for piped exhaust applications.



# PERFORMANCE CURVES

## 650781-X 1/2" NON-METALLIC DIAPHRAGM PUMP

