SALES & ENGINEERING DATA

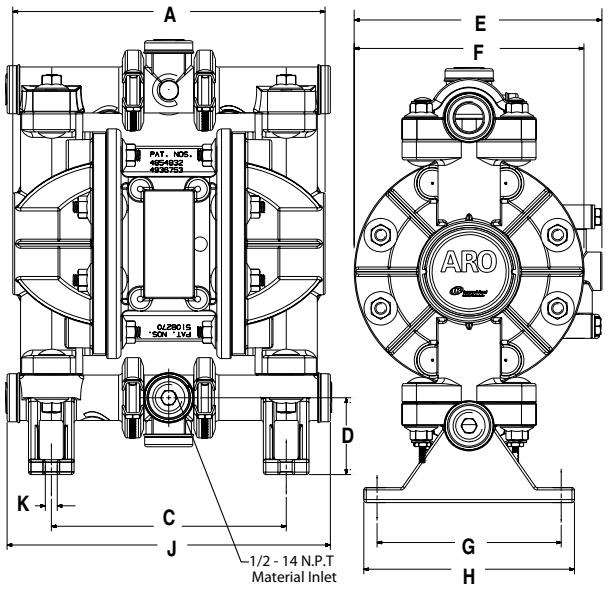
RATIO SERIES: 1:1

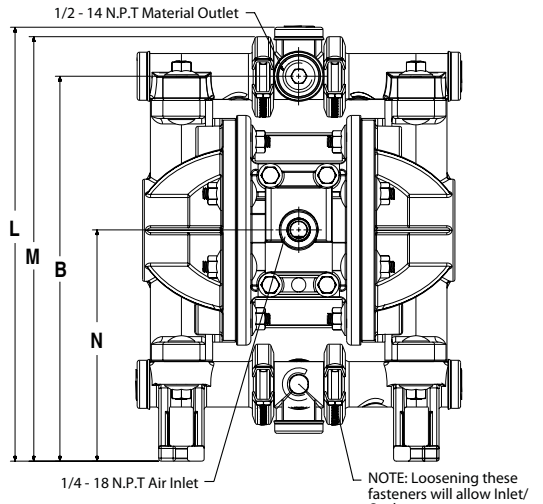
FLUID P.S.I RANGE: 20 -100

66605X-XXX
1/2" NON-METALLIC DIAPHRAGM PUMP

RELEASED: 1-31-97
REVISED: 8-7-15
(REV. G) S-875

DIMENSIONAL DATA





NOTE: Dimensions are shown in inches and (mm) and are supplied for reference only.

DIMENSIONS

A - 8.155" (207.1 mm)	E - 6.467" (164 mm)	J - 8.44 5" (2 15 mm)
B - 10.051" (255 mm)	F - 6.000" (152 mm)	K - 0.31 2" (8 mm)
C - 6.135" (155.8 mm)	G - 4.812" (122.2 mm)	L - 11 .331" (2 88 mm)
D - 2.005" (51 mm)	H - 5.500" (140 mm)	M - 11 .08 4" (2 82 mm)
		N - 6.040" (153 mm)

ACCESSORIES:

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

* External muffler for piped exhaust applications.

SPECIFICATIONS

CONSTRUCTION

Model Series 66605X-XX
Pump Type .....Non-Metallic, Air Operated, Double Diaphragm ③
Ratio 1:1
Material Inlet / Outlet (female) ..... 1/2 - 14 N.P.T.F. - 1
Air Inlet (female) ..... 1/4 - 18 N.P.T.F. - 1
Air Exhaust standard ..... internal
optional (female) ..... 3/8 - 18 N.P.T.F. - 1
Weight Polypropylene ..... 7.2 lbs (3.3 kgs)
Groundable Acetal..... 8.8 lbs (4.0 kgs)
Kynar PVDF ..... 5 lbs (4.3 kgs)
Air Section Service Kit 637141
Fluid Section Service Kit 637140-XX

66605X - X X X
637140 - X X
Diaphragm Material
Ball Material
EXAMPLE: Model 66605J-3EB
Fluid Section Service Kit is 637140-EB

PERFORMANCE

Air Inlet Pressure Range ..... 20 - 100 p.s.i. (1.4 - 6.9 bar)
Maximum Material Inlet Pressure..... 10 p.s.i. (0.69 bar)
Fluid Pressure Range ..... 20 - 100 p.s.i. (1.4 - 6.9 bar)
Maximum Flow Rate (flooded inlet)
ball check ..... 13 g.p.m. (49.2 l.p.m.)
duckbilll..... 10 g.p.m. (37.9 l.p.m.)
Maximum Particle Size
ball check ..... 3/32" dia. (2.4 mm)
duckbilll..... fibers
Maximum Temperature Limits (diaphragm / ball / seal material)
E.P.R..... -60˚ to 280˚F (-51˚ to 138˚C)
Groundable Acetal..... 10˚ to 180˚ F (-12˚ to 82˚ C)
Hytrel ..... -20˚ to 180˚ F (-29˚ to 82˚ C)
Kynar PVDF..... 10˚ to 200˚ F (-12˚ to 93˚ C)
Neoprene ..... 0˚ to 200˚ F (-18˚ to 93˚ C)
Nitrile ..... 10˚ to 180˚ F (-12˚ to 82˚ C)
Polypropylene..... 35˚ to 175˚ F (2˚ to 79˚ 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)

Displacement / Cycle @ 100 p.s.i
ball check ..... 0.040 gal. (0.15 lit.)
duckbill ..... 0.032 gal. (0.12 lit.)
Noise Level @ 100p.s.i. 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 (LAeq) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

③ 666056-XXX models are constructed of a groundable acetal. The material's conductivity allows it to be connected to a suitable ground.

INGERSOLL RAND COMPANY LTD
209 NORTH MAIN STREET- BRYAN, OHIO 43506
(800) 495-0276 • FAX (800) 892-6276
arozone.com

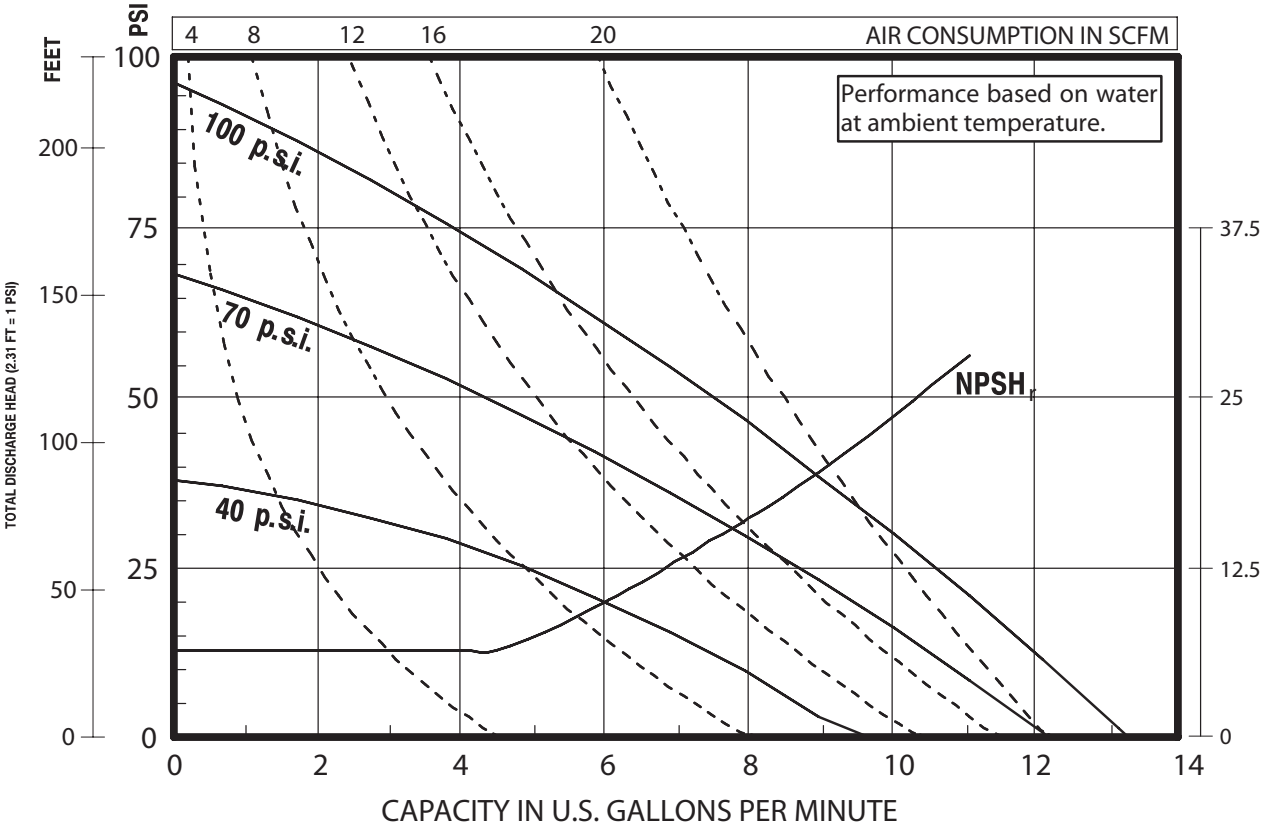
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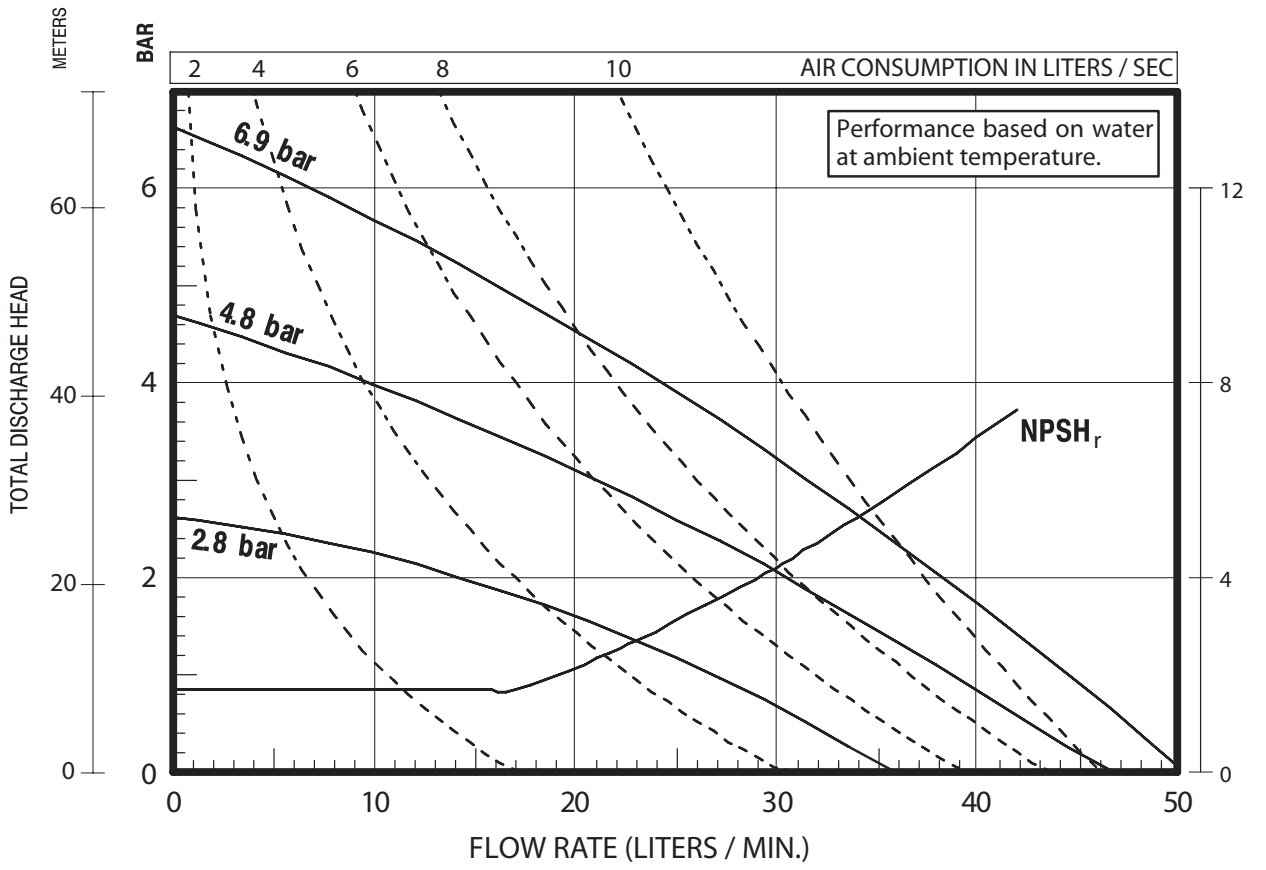
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PERFORMANCE CURVES

66605X-XXX 1/2" NON-METALLIC DIAPHRAGM PUMP





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