

SALES & ENGINEERING DATA

RATIO
SERIES: 1:1

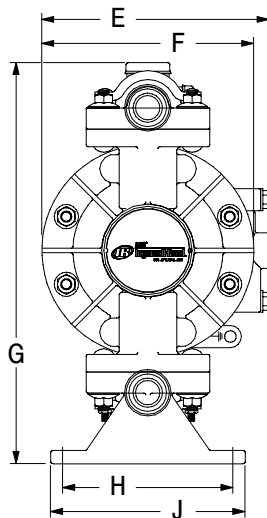
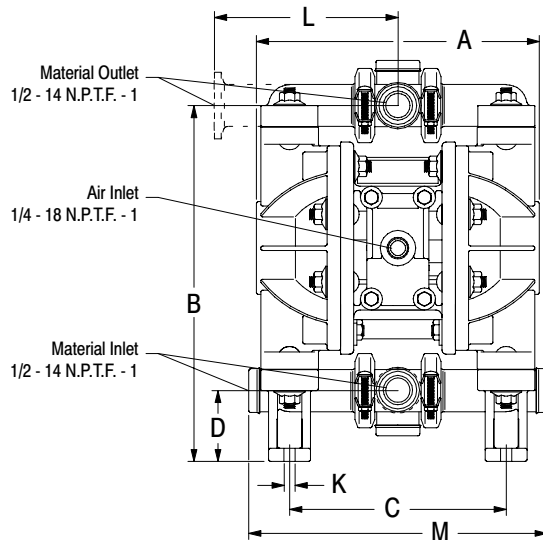
FLUID PSI
RANGE: 20 - 100

66605X-XXX

1/2" NON-METALLIC DIAPHRAGM PUMP

RELEASED: 1-31-97
REVISED: 9-25-06
(REV. D) S-875

DIMENSIONAL DATA



DIMENSIONS

A - 8-5/32" (207 mm)	E - 6-7/16" (164 mm)	J - 5-1/2" (140 mm)
B - 10-1/16" (255 mm)	F - 6" (152 mm)	K - 5/16" (8 mm)
C - 6-5/32" (156 mm)	G - 11-11/32" (288 mm)	L - 5-3/16" (132 mm)
D - 2-1/32" (51 mm)	H - 4-13/16" (122 mm)	M - 8-15/32" (215 mm)

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

SPECIFICATIONS

CONSTRUCTION

Model Series	66605X-XXX
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 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.)
duckbill	10 g.p.m. (37.9 l.p.m.)
Maximum Particle Size	
ball check	3/32" dia. (2.4 mm)
duckbill	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 150° F (-29° to 66° 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 150° F (2° to 66° C)
Polyurethane	10° to 150° F (-12° to 66° C)
Santoprene	-40° to 225° F (-40° to 107° C)
Teflon 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 @ 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.
- ③ 666056-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.

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IR Ingersoll Rand

PERFORMANCE CURVES

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

