

SALES & ENGINEERING DATA

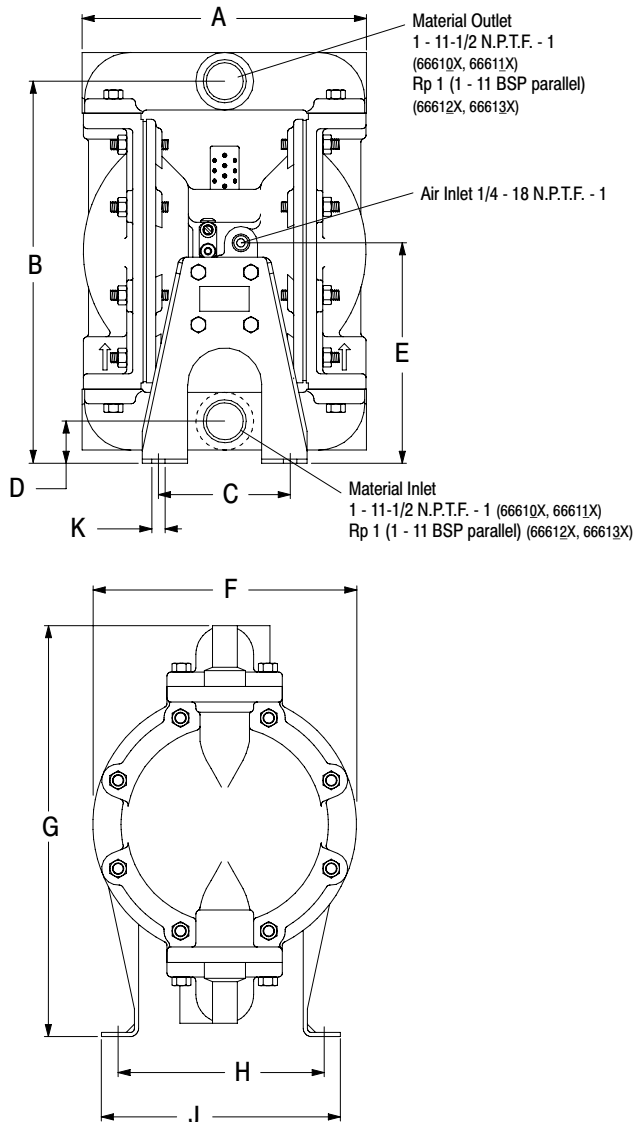
66610X-XXX-C

1" METALLIC DIAPHRAGM PUMP

RATIO SERIES:	1:1
FLUID P.S.I. RANGE:	20 - 120

RELEASED: 12-20-96
REVISED: 10-25-12
(REV. F) S-878

DIMENSIONAL DATA



DIMENSIONS

A	8-9/16" (217 mm)	E	6-1/2" (165 mm)	H	6-1/4" (159 mm)
B	11-9/16" (294 mm)	F	8" (203 mm)	J	7-5/16" (186 mm)
C	4" (102 mm)	G	12-1/2" (318 mm)	K	7/16" (11 mm)
D	1-1/4" (32 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	66610X-XXX-C
Pump Type	Metallic, Air Operated, Double Diaphragm
Ratio	1:1
Material Inlet / Outlet (female)	
66610X-X-C and 66611X-X-C	1 - 11-1/2 N.P.T.F. - 1
66612X-X-C and 66613X-X-C	Rp 1 (1 - 11 BSP parallel)
Air Inlet (female)	1/4 - 18 N.P.T.F. - 1
Air Exhaust (female)	3/8 - 18 N.P.T.F. - 1
Weight	
Aluminum	19 lbs (8.62 kgs)
Cast Iron	31 lbs (14.06 kg)
Stainless Steel	36 lbs (16.33 kgs)
(add 8 lbs (3.63 kgs) for cast iron air motor section)	
Air Section Service Kit	637118-C
Fluid Section Service Kit	637119-XX-C
Composite PTFE Diaphragm Kit	48495964

66610X - X ☒ ☒ -C

637119 - ☒ ☒ -C

Diaphragm Material
Ball Material

EXAMPLE: Model 666100-361-C
Fluid Section Service Kit is 637119-61-C

PERFORMANCE

Air Inlet Pressure Range	20 - 120 p.s.i. (1 - 8.3 bar)
Maximum Material Inlet Pressure	10 p.s.i. (0.69 bar)
Fluid Pressure Range	20 - 120 p.s.i. (1 - 8.3 bar)
Maximum Flow Rate (flooded inlet)	35 g.p.m. (133 l.p.m.)
Maximum Particle Size	1/8" dia. (3.2 mm)
Maximum Temperature Limits (diaphragm / ball / seal material)	
Acetal	10° to 180° F (-12° to 82° C)
E.P.R. / EPDM	-60° to 280° F (-51° to 138° C)
Hytrel	-20° to 150° F (-29° to 66° 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)
P.V.D.F. (Kynar)	10° to 200° F (-12° to 93° C)
Santoprene	-40° to 225° F (-40° to 107° C)
PTFE	40° to 225° F (4° to 107° C)
Composite PTFE	14° to 194° F (-10° to 90° C)
Viton	-40° to 350° F (-40° to 177° C)

Displacement / Cycle @ 100 p.s.i.

Standard Diaphragm 0.16 gal. (60 lit)

Composite PTFE Diaphragm 0.14 gal. (.525 lit)

Noise Level @ 70 p.s.i. - 60 c.p.m. ① 64.5 db(A)②

① Tested with 93110 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:

65010 Neoprene "O" Ring Air Motor Kit

65764 Viton "O" Ring Air Motor Kit

66073-2 Air Line Connection Kit

637167 Abrasion Resistant Conversion Kit

airpumping.co.uk

est. 1979

Unit 16, Upminster Trading Park, Warley St., Upminster, Essex, RM14 3PJ, ENGLAND

ARO  Ingersoll Rand
Industrial Technologies

PERFORMANCE CURVES

6661XX-XXX-C 1" METALLIC DIAPHRAGM PUMP

