

SALES & ENGINEERING DATA

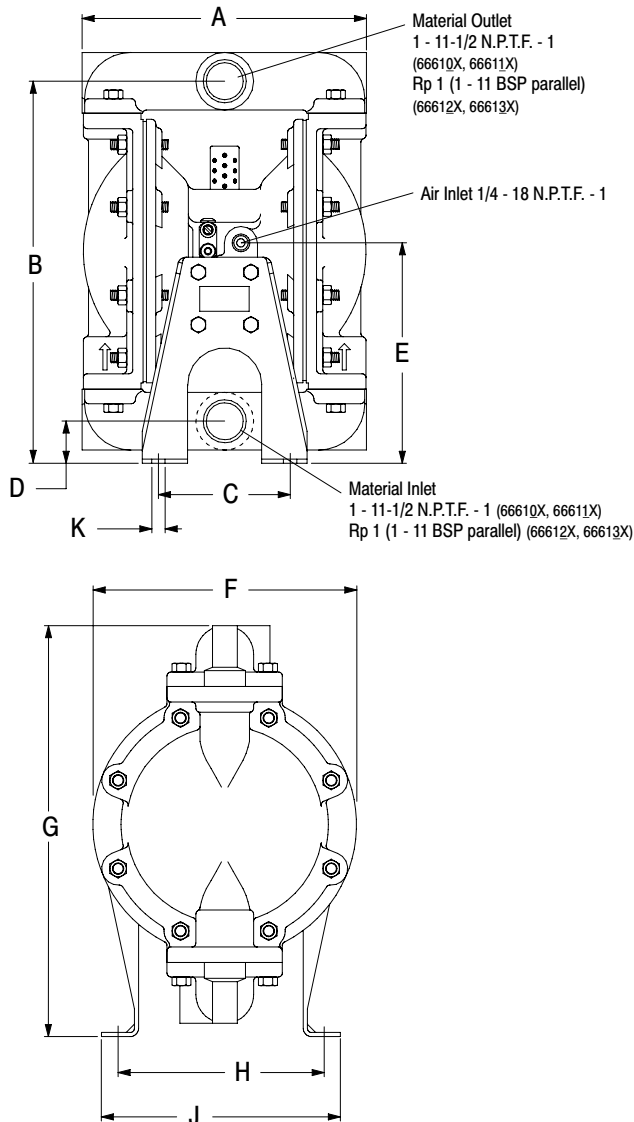
66610X-XXX-C

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

INGERSOLL RAND COMPANY LTD
209 NORTH MAIN STREET - BRYAN, OHIO 43506

① (800) 495-0276 • FAX(800) 892-6276

© 2012

CCN 15260201

www.ingersollrandproducts.com

ARO 
Industrial Technologies

PERFORMANCE CURVES

6661XX-XXX-C 1" METALLIC DIAPHRAGM PUMP

