

SALES & ENGINEERING DATA

66610X-XXX-C

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

1" METALLIC DIAPHRAGM PUMP

RELEASED: 8-24-89
REVISED: 7-26-24
(REV: AP)

PUMP DATA

Models..... see "Model Description Chart" for "-XXX"

Pump Type..... Metallic Air Operated Double Diaphragm

Material..... see "Model Description Chart"

Weight

Aluminum	8.62 kg
Cast Iron	14.06 kg
Stainless Steel	13.13 kg
Stainless Steel Flange models ...	17.06 kg
[add 3.63 kg for cast iron air motor section]	

Maximum Air Inlet Pressure 8.3 bar

Maximum Material Inlet Pressure 0.69 bar

Maximum Outlet Pressure 8.3 bar

Maximum

Flow Rate (flooded inlet)..... 133 lpm

Displacement / Cycle @ 100 psig

Standard Diaphragm	0.60 litres
Composite PTFE Diaphragm	0.525 litres

Maximum Particle Size 3.2 mm dia. (1/8")

Maximum Temperature Limits (diaphragm / ball / seat material)

Acetal	-29° to 82° C
E.P.R. / EPDM	-51° to 138° C
Hytre [®]	-29° to 82° C
Neoprene	-18° to 93° C
Nitrile	-12° to 82° C
Polypropylene	0° to 79° C
Polyurethane	-23° to 66° C
PVDF.....	-12° to 93° C
Santoprene [®]	-40° to 107° C
PTFE	4° to 107° C
Composite PTFE	-10° to 90° C
Viton [®]	-40° to 177° C

Dimensional Data..... see page 4 and 5

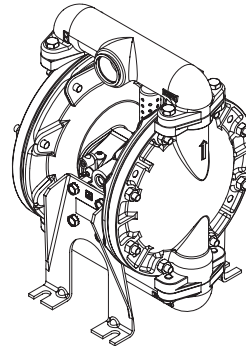
Noise Level @ 70 psig, 60 cpm^① .. 78.3 dB(A)^②

① Tested with 93110 muffler installed.

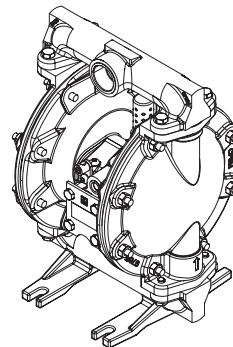
② The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (LA_{eq}) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

6661XX-XXX-C 1" DIAPHRAGM PUMP

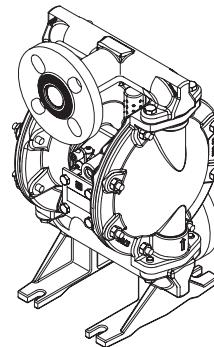
SINGLE MANIFOLD



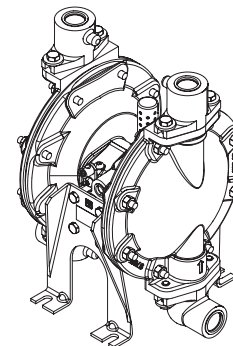
ALUMINUM / CAST IRON PUMP



STAINLESS STEEL PUMP



STAINLESS STEEL FLANGE MODEL PUMP



DUAL MANIFOLD

airpumping.co.uk

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Tel: 01708 259870 • Fax 020 8470 4617

www.airpumping.co.uk • e-mail: sales@airpumping.co.uk

ARO  Ingersoll Rand[®]

MODEL DESCRIPTION CHART

	6661	X	X	-	X	X	-	C
CENTER BODY MATERIAL								
0 - Aluminum, NPTF								
1 - Cast Iron, NPTF								
2 - Aluminum, BSP								
3 - Cast Iron, BSP								
G - Aluminum, FLANGE								
FLUID CAP / MANIFOLD MATERIAL								
(Steel Hardware)								
0 - Aluminum, Single								
1 - Stainless Steel, Single								
2 - Cast Iron, Single								
9 - Stainless Steel, Dual								
(Stainless Steel Hardware)								
A - Aluminum, Single								
B - Stainless Steel, Single								
C - Cast Iron, Single								
D - Stainless Steel, Dual								
E - Stainless Steel, Raised Flange, Center Port								
SEAT MATERIAL								
1 - Aluminum								
2 - 316 Stainless Steel								
3 - Polypropylene								
4 - PVDF								
5 - Carbon Steel								
8 - Hard 440 Stainless Steel								
BALL MATERIAL								
1 - Neoprene								
2 - Nitrile								
3 - Viton®								
4 - PTFE								
6 - Acetal								
8 - Polyurethane								
A - Stainless Steel								
C - Hytrel								
E - Santoprene								
DIAPHRAGM MATERIAL								
1 - Neoprene								
2 - Nitrile								
3 - Viton®								
4 - PTFE / Santoprene								
6 - Composite PTFE								
9 - Hytrel								
B - Santoprene								
NOTICE: All possible options are shown in the chart, however, certain combinations may not be recommended. Consult a representative or the factory if you have questions concerning availability.								

SERVICE KITS

Refer to the Model Description Chart to match the pump material options.

FLUID SECTION SERVICE KIT SELECTION

6661XX-X ☒ ☒ C

EXAMPLE: MODEL # 666100-361-C

637119 ☒ ☒ - C

Fluid Section Service Kit # 637119-61-C

BALL ☐ ☐ DIAPHRAGM

637118-C for air section repair.

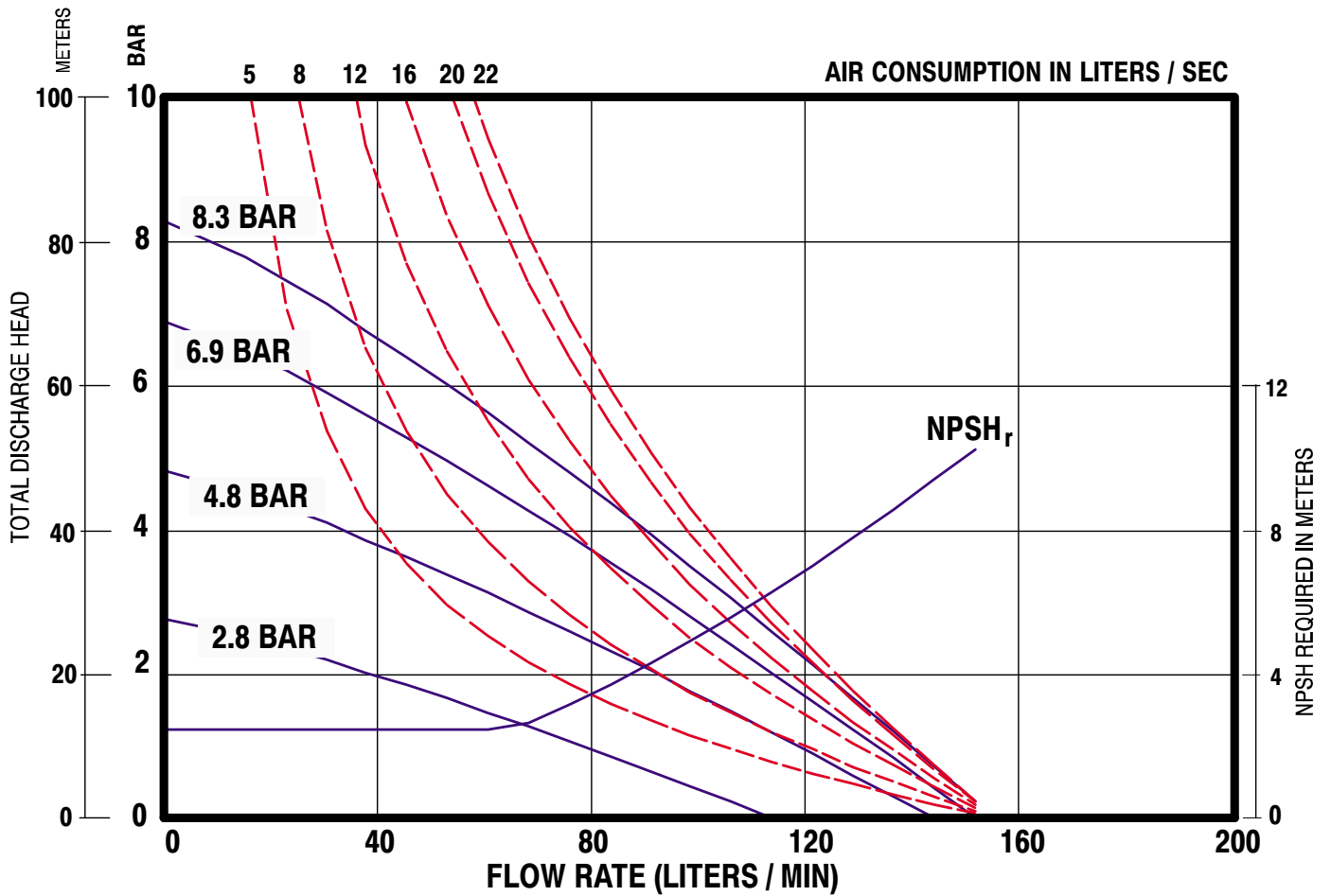
637119-XXX-C for fluid section repair **with** seats

637119-XX-C for fluid section repair **without** seats

637167 Abrasion Resistant Conversion Kit is available for use in heavy and abrasive material applications.

PERFORMANCE CURVES

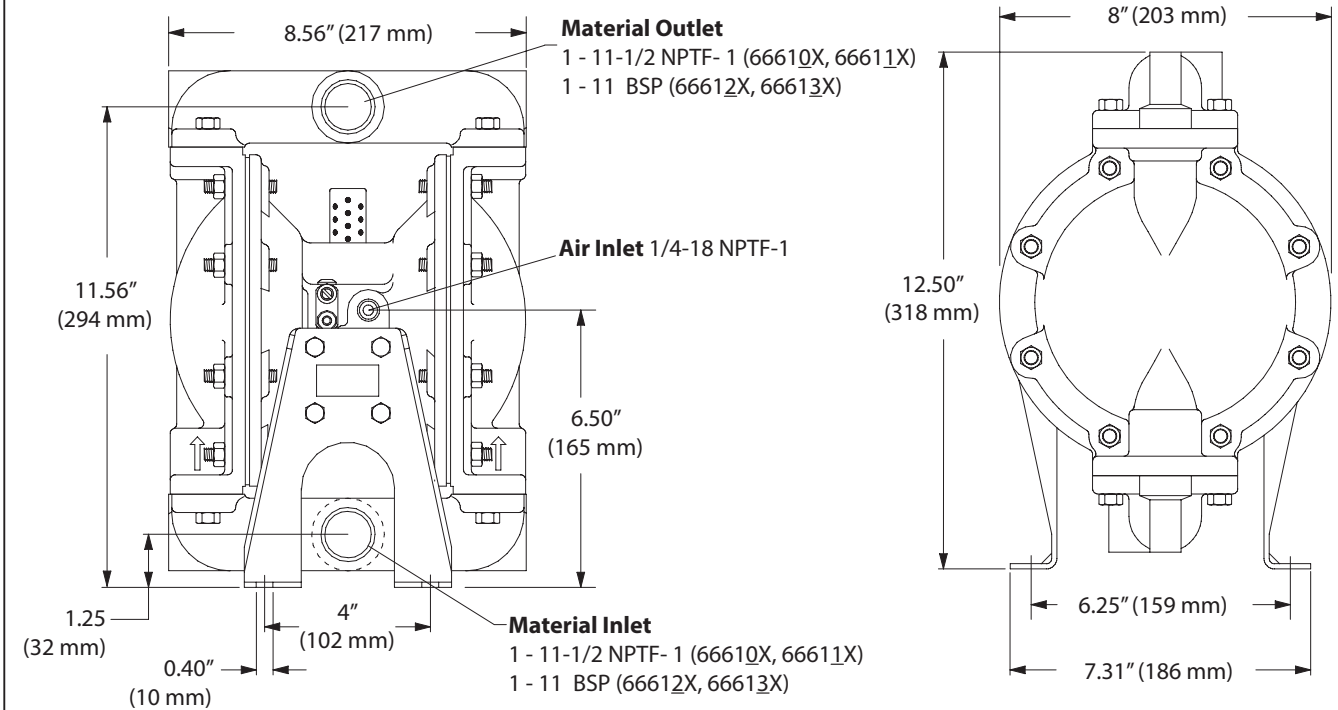
6661XX-XXX-C 1" METALLIC DIAPHRAGM PUMP



Performance based on water
at ambient temperature.

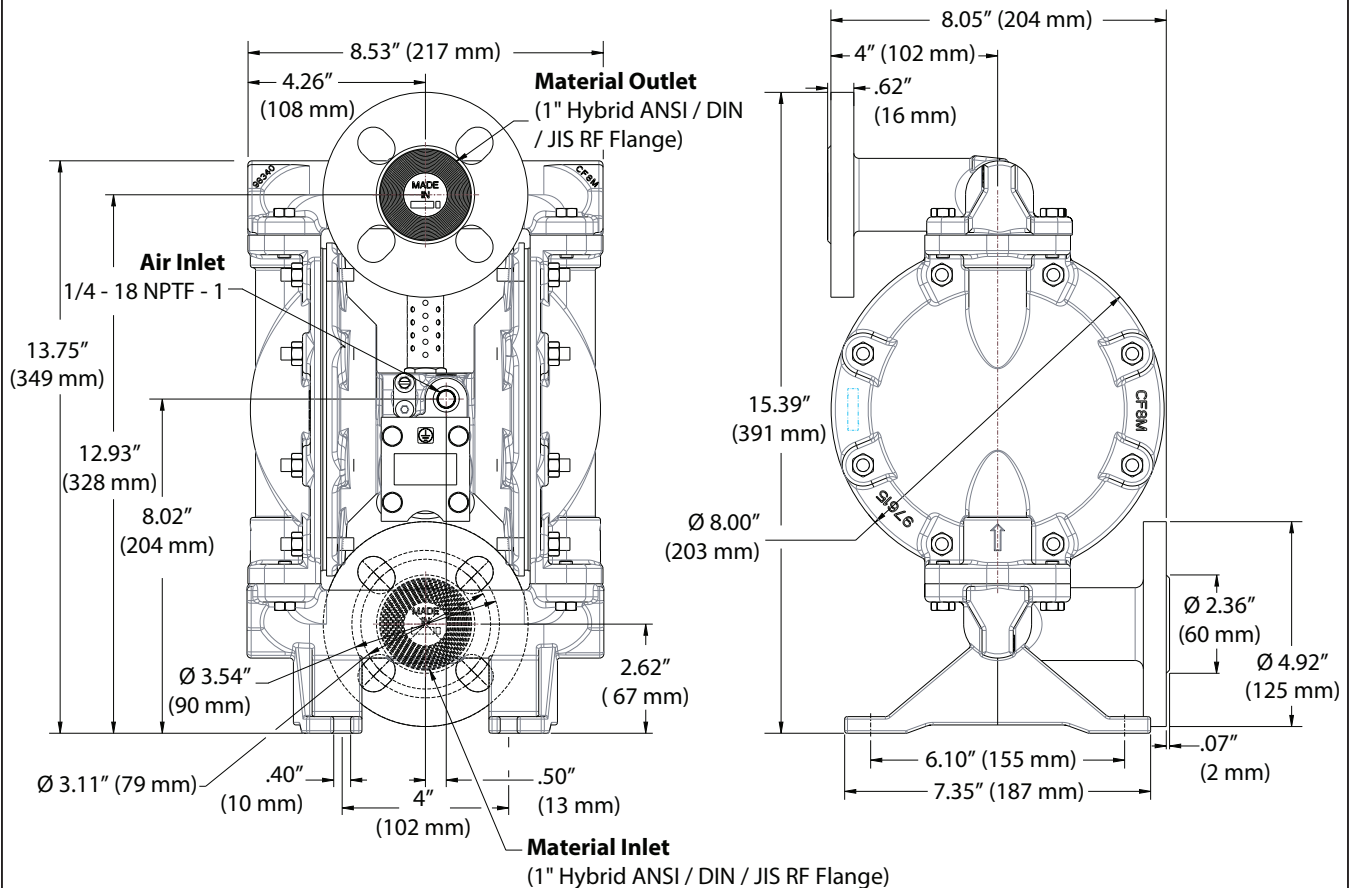
DIMENSIONAL DATA- 6661X0, 1XA, 1X2 and 1XC

Dimensions shown are for reference only, they are displayed in inches and millimeters (mm).



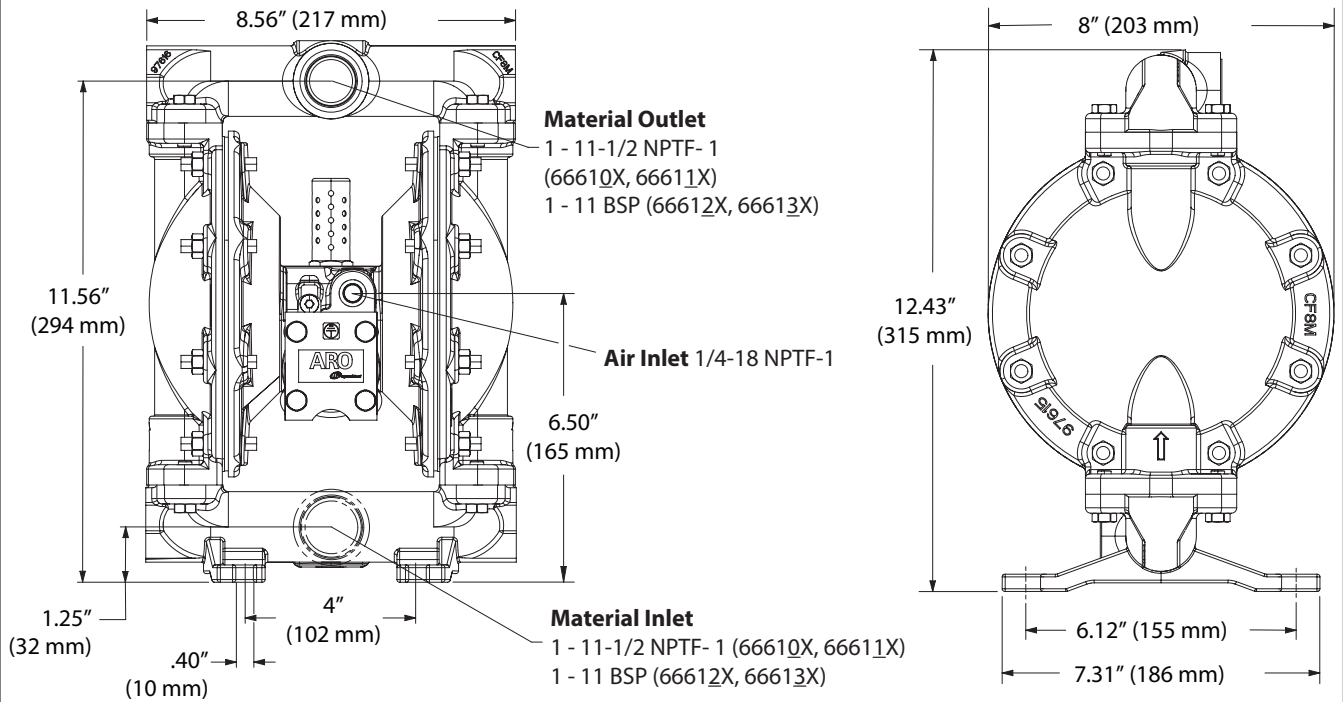
DIMENSIONAL DATA - 6661GE

Dimensions shown are for reference only, they are displayed in inches and millimeters (mm).



DIMENSIONAL DATA - 6661X1, 6661XB

Dimensions shown are for reference only, they are displayed in inches and millimeters (mm).



DIMENSIONAL DATA - 6661X9, 6661XD

Dimensions shown are for reference only, they are displayed in inches and millimeters (mm).

