

# SALES AND ENGINEERING DATA

|                      |                 |
|----------------------|-----------------|
| RATIO<br>SERIES:     | <b>1:1</b>      |
| FLUID PSIG<br>RANGE: | <b>20 - 120</b> |

## 66615X-XXX-C THRU 66618X-XXX-C 1-1/2" METALLIC DIAPHRAGM PUMP

RELEASED: 1-10-97  
REVISED: 3-10-23  
(REV: J) S-879

### SPECIFICATIONS

|                                                         |                                             |
|---------------------------------------------------------|---------------------------------------------|
| Model Serie .....                                       | 6661XX-XXX-C                                |
| Pump Type .....                                         | Metallic, Air Operated,<br>Double Diaphragm |
| Ratio .....                                             | 1:1                                         |
| Material Inlet / Outlet (female)                        |                                             |
| 66615X-X-C and 66616X-X-C....                           | 1-1/2 - 11-1/2 NPTF - 1                     |
| 66617X-X-C and 66618X-X-C....                           | 1-1/2 - 11 BSP                              |
| 6661LE-XXX-C.....                                       | 1.5" HYBRID ANSI / DIN /<br>JIS RF FLANGE   |
| Air Inlet (female) .....                                | 1/2 - 14 NPTF - 1                           |
| Air Exhaust (female).....                               | 3/4 - 14 NPTF - 1                           |
| Weight                                                  |                                             |
| Aluminum .....                                          | 51.54 lbs (23.4 kgs)                        |
| Cast Iron .....                                         | 79.54 lbs (36.1 kgs)                        |
| Stainless Steel.....                                    | 77.5 lbs (35.15 kgs)                        |
| Flange Model .....                                      | 88.73 lbs (40.25 kgs)                       |
| (add 23 lbs (10.4 kgs) for cast iron air motor section) |                                             |
| Air Section Service Kit .....                           | 637118-C                                    |
| Fluid Section Service Kit .....                         | 637124-XX                                   |
| Composite PTFE Diaphragm Kit .                          | 48496806                                    |

**66615X-XXX-C**  
**637124-XXX-C**

Ball Material | Diaphragm Material

Example: Model 666150-361-C  
Fluid Section Service Kit is 637124-61

### PERFORMANCE

|                                                                  |                                 |
|------------------------------------------------------------------|---------------------------------|
| Air Inlet Pressure Range .....                                   | 20 - 120 psig (1.4 - 8.3 bar)   |
| Maximum Material                                                 |                                 |
| Inlet Pressure .....                                             | 10 psig (0.69 bar)              |
| Fluid Pressure Range .....                                       | 20 - 120 psig (1.4 - 8.3 bar)   |
| Maximum Flow Rate (flooded inlet)                                | 90 gpm (340.7 lpm)              |
| Maximum Particle Size .....                                      | 1/4" dia. (6.4 mm)              |
| Maximum Temperature Limits<br>(diaphragm / ball / seat material) |                                 |
| Acetal.....                                                      | -20° to 180° F (-29° to 82° C)  |
| E.P.R .....                                                      | -60° to 280° F (-51° to 138° C) |
| Hytrell®.....                                                    | -20 to 180° F (-29 to 82° C)    |
| 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 .....                                              | 32° to 175° F (0° to 79° C)     |
| Polyurethane .....                                               | -10° to 150° F (-23° to 66° C)  |
| PTFE.....                                                        | 40° to 225° F (4° to 107° C)    |
| Composite PTFE.....                                              | 14° to 194° F (-10° to 90° C)   |
| Santoprene® .....                                                | -40° to 225° F (-40° to 107° C) |
| Viton® .....                                                     | -40° to 350° F (-40° to 177° C) |

### Displacement / Cycle @ 100 psig

|                             |                       |
|-----------------------------|-----------------------|
| Standard Diaphragm .....    | 0.64 gal. (2.42 lit.) |
| Composite PTFE Diaphragm .. | 0.40 gal. (1.52 lit.) |

### Noise Level @ 70 psig - 60 cpm<sup>①</sup>. 80.5 dB(A)<sup>②</sup>

#### Note:

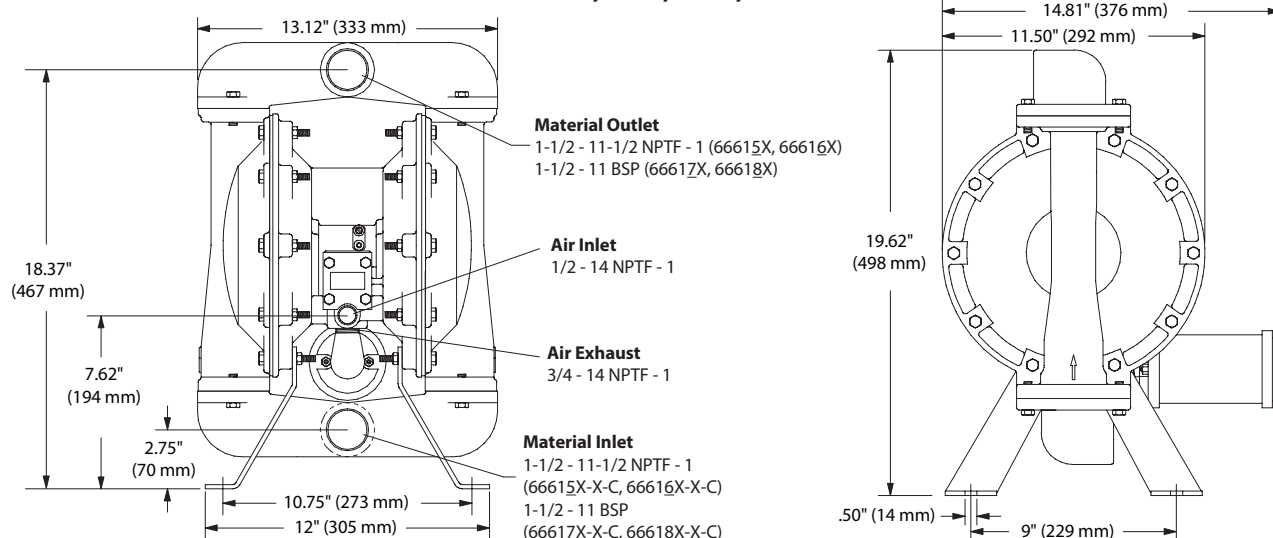
- ① Tested with 350-568 muffler installed.
- ② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LA<sub>eq</sub>) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

#### ACCESSORIES:

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| 65010 Neoprene "O" Ring Air Motor Kit | 66084-1 Air Line Connection Kit          |
| 65764 Viton "O" Ring Air Motor Kit    | 637155 Abrasion Resistant Conversion Kit |

### DIMENSIONAL DATA

#### 6661X0, 1X2, 1XA, 1XC



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

#### INGERSOLL RAND COMPANY INC

209 NORTH MAIN STREET - BRYAN, OHIO 43506

① (800) 495-0276 • FAX (800) 892-6276

arozone.com

© 2023

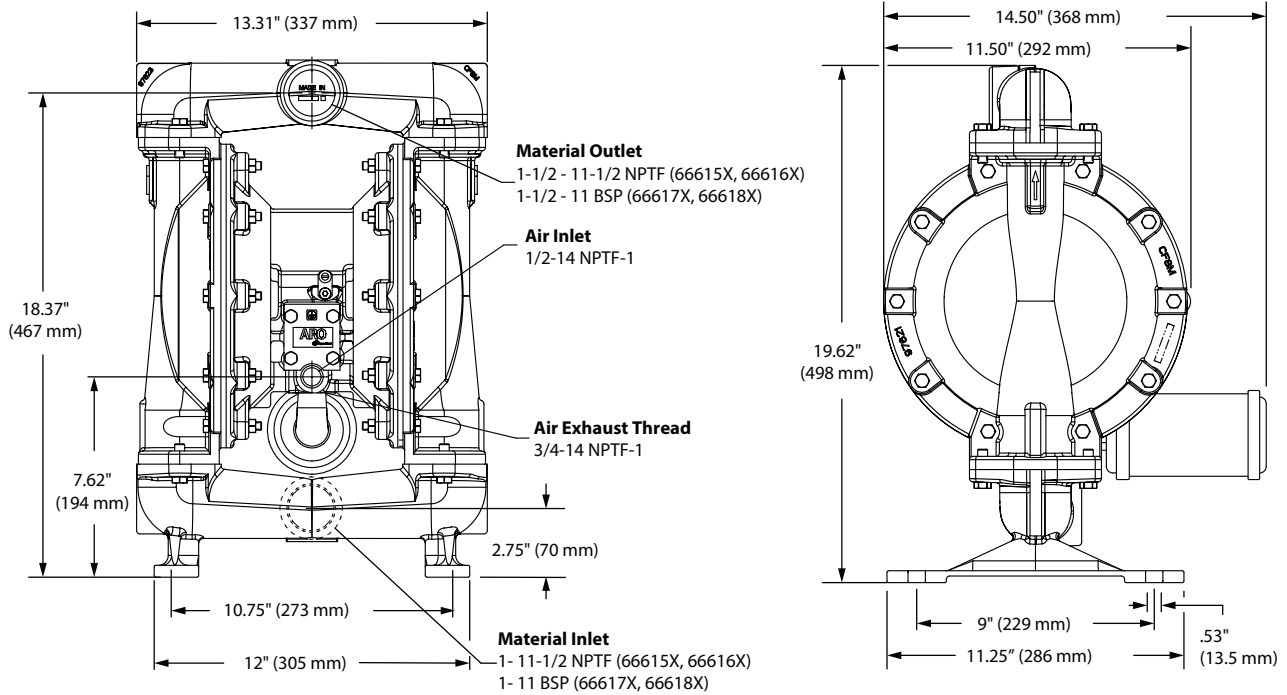
CCN 15260219

# ARO

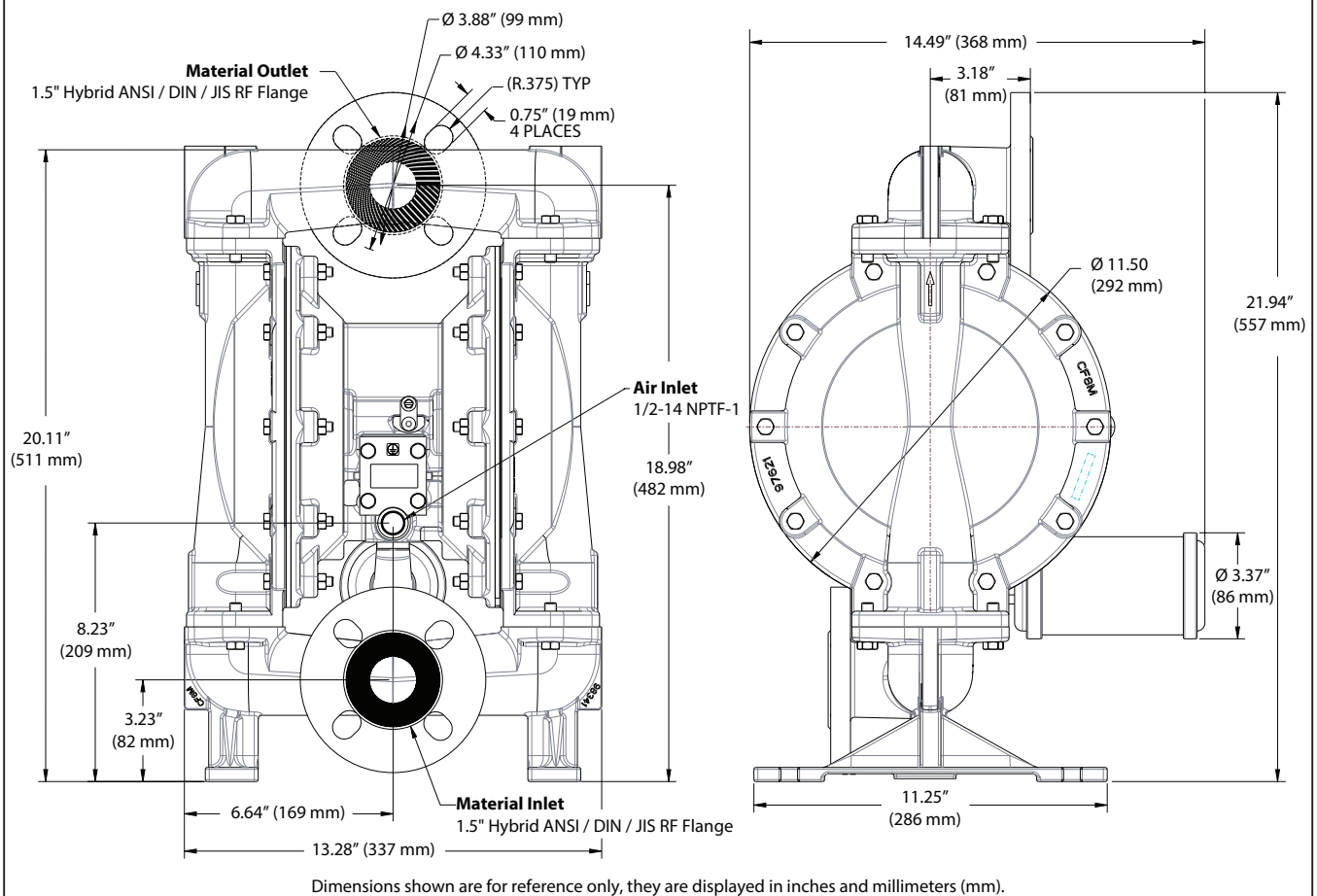
**IR** Ingersoll Rand

## DIMENSIONAL DATA

### 6661X1, 1XB



### 6661LE



# PERFORMANCE CURVES

6661XX-XXX-C 1-1/2" METALLIC DIAPHRAGM PUMP

