

# SALES & ENGINEERING DATA

## PF20A-XXX-SXX-B & PF20S-XXX-SXX-B

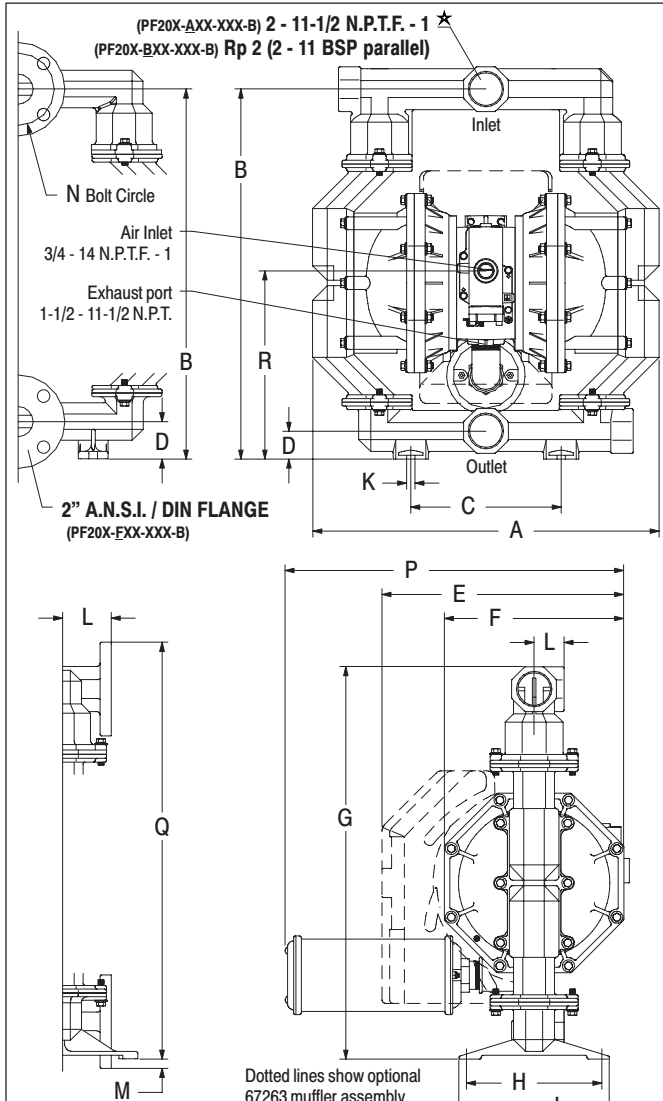
### 2" METALLIC FLAP VALVE DIAPHRAGM PUMP

RATIO  
SERIES: **1:1**

FLUID P.S.I.  
RANGE: **20 - 120**

RELEASED: 2-10-05  
REVISED: 9-15-11  
(REV. 04) S-1342

#### DIMENSIONAL DATA



#### DIMENSIONS

|                                  |                       |                      |
|----------------------------------|-----------------------|----------------------|
| A 23-3/16" (588.8 mm)            | G 26-1/4" (666.8 mm)  | M 5/8" (15.9 mm)     |
| B 24-3/4" (628.7 mm)             | H 9-1/16" (230.2 mm)  | N 4.834" (122.8 mm)  |
| C 10-1/16" (255.6 mm)            | J 10-1/16" (255.6 mm) | P 21-5/8" (548 mm)   |
| D see below                      | K 9/16" (14.3 mm)     | Q 27-7/8" (708.0 mm) |
| E 16-3/16" (411.2 mm)            | L see below           | R see below          |
| F 12" (304.8 mm)                 |                       |                      |
| "D"                              | "L"                   | "R"                  |
| PD20X-XAX-SXX-B 1-7/8" (47.6 mm) | 2" (50.8 mm)          | 12-19/32" (319.9 mm) |
| PD20X-XCX-SXX-B 1-7/8" (47.6 mm) | 2" (50.8 mm)          | 12-19/32" (319.9 mm) |
| PD20X-ASX-SXX-B 2-1/2" (63.5 mm) | 2-3/32" (53.0 mm)     | 13-1/4" (336.6 mm)   |
| PD20X-BSX-SXX-B 2-1/2" (63.5 mm) | 2-3/32" (53.0 mm)     | 13-1/4" (336.6 mm)   |
| PD20X-FSX-SXX-B 2-1/2" (63.5 mm) | 3-1/4" (82.6 mm)      | 13-1/4" (336.6 mm)   |

NOTE: ★ Side Discharge Ports are not available on PX20X-SXX-B Models.  
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                     | PF20A-XXX-SXX-B                                                 |
|                                  | PF20S-XXX-SXX-B                                                 |
| Pump Type                        | Metallic, Air Operated, Flap Valve, Double Diaphragm            |
| Ratio                            | 1:1                                                             |
| Material Inlet / Outlet (female) |                                                                 |
| PF20X-AXX-SXX-B                  | 2 - 11-1/2 N.P.T.F. - 1                                         |
| PF20X-BXX-SXX-B                  | Rp 2 (2 - 11 BSP parallel)                                      |
| PF20X-FXX-SXX-B                  | 2" A.N.S.I. / DIN Flange                                        |
| Air Inlet (female)               | 3/4 - 14 N.P.T.F. - 1                                           |
| Air Exhaust (female)             | 1-1/2 - 11-1/2 N.P.T.                                           |
| Weight                           |                                                                 |
| PF20A-XAX-SXX-B                  | 97.3 lbs (44.2 kgs)                                             |
| PF20A-XCX-SXX-B                  | 166.2 lbs (75.4 kgs)                                            |
| PF20A-ASX-SXX-B                  | 166.0 (75.3 kgs)                                                |
| PF20A-BSX-SXX-B                  | 166.0 (75.3 kgs)                                                |
| PF20A-FSX-SXX-B                  | 177.1 (80.3 kgs)                                                |
|                                  | (add 28.9 lbs [13.1 kgs] for Stainless steel air motor section) |
| Air Section Service Kit          | 637421                                                          |
| Fluid Section Service Kit        | 637310-XX                                                       |
| Major Air Valve Assembly         | 637374-X                                                        |

##### PF20X-XXX-SXX-B

637310 - XX

Diaphragm Material  
Flap Material

EXAMPLE: Model # PF20A-AAP-SAA-B  
Fluid Section Service Kit is 637310-AA

##### PERFORMANCE

|                                                               |                                 |
|---------------------------------------------------------------|---------------------------------|
| Air Inlet Pressure Range                                      | 20 - 120 p.s.i. (1.4 - 8.3 bar) |
| Maximum Material Inlet Pressure                               | 10 p.s.i. (0.69 bar)            |
| Fluid Pressure Range                                          | 20 - 120 p.s.i. (1.4 - 8.3 bar) |
| Maximum Flow Rate                                             | 172 g.p.m. (651 l.p.m.)         |
| Maximum Particle Size                                         | 2" dia. (50 mm) semi-solids     |
| Maximum Temperature Limits (diaphragm / ball / seal material) |                                 |
| E.P.R. / EPDM                                                 | -60° to 280° F (-51° to 138° C) |
| Nitrile                                                       | 10° to 180° F (-12° to 82° C)   |
| Polyurethane                                                  | 10° to 150° F (-12° to 66° C)   |
| Santoprene®                                                   | -40° to 225° F (-40° to 107° C) |
| PTFE                                                          | 40° to 225° F (4° to 107° C)    |
| Viton®                                                        | -40° to 350° F (-40° to 177° C) |
| Displacement / Cycle @ 100 p.s.i.                             | 1.4 gal. (5.3 lit.)             |
| Noise Level @ 70 p.s.i. - 60 c.p.m.①                          | 85.0 db(A)②                     |

① Tested with 67263 muffler assembly installed.

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

##### ACCESSORIES:

66312 Air Line Connection Kit  
67263 Continuous Muffler Assembly  
94117 Int. Muffler

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# PERFORMANCE CURVES

## PF20A-XXX-XXX-B / PF20S-XXX-XXX-B 2" METALLIC FLAP VALVE DIAPHRAGM PUMP

