

SALES AND ENGINEERING DATA

PD10X-XXX-XXX, PE10X-XXX-XXX  
AND PZ10X-XXX-XXX  
1" METALLIC DIAPHRAGM PUMP

|                      |          |
|----------------------|----------|
| RATIO<br>SERIES:     | 1:1      |
| FLUID PSIG<br>RANGE: | 20 - 120 |
| RELEASED:            | 4-13-04  |
| REVISED:             | 6-17-22  |
| (REV: M)             | S-1305   |

SPECIFICATIONS

CONSTRUCTION

|                                                               |                                                 |
|---------------------------------------------------------------|-------------------------------------------------|
| Model Series                                                  | PD10X-XXX-XXX<br>PE10X-XXX-XXX<br>PZ10X-XXX-XXX |
| Pump Type                                                     | Metallic, Air Operated,<br>Double Diaphragm     |
| Ratio                                                         | 1:1                                             |
| Material Inlet / Outlet                                       |                                                 |
| PX10X- <u>A</u> XX-XXX (female)                               | 1 - 11-1/2 NPTF - 2                             |
| PX10X- <u>B</u> XX-XXX (female)                               | Rp 1 (1 - 11 BSP Parallel)                      |
| PX10X- <u>F</u> XX-XXX                                        | 1" ANSI / DIN Flange<br>(Raised Face)           |
| Air Inlet (female)                                            | 1/4 - 18 NPT                                    |
| Air Exhaust (female)                                          | 3/4 - 14 NPT                                    |
| Weight                                                        |                                                 |
| PX10R-X <u>A</u> X-XXX                                        | 20.65 lbs (9.37 kgs)                            |
| PX10R-X <u>C</u> X-XXX                                        | 35.2 lbs (16.0 kgs)                             |
| PX10R-X <u>H</u> X-XXX                                        | 39.6 lbs (18.0 kgs)                             |
| PX10R-X <u>S</u> X-XXX                                        | 38.2 lbs (17.3 kgs)                             |
| PX10R-B <u>S</u> X-XXX                                        | 38.2 lbs (17.3 kgs)                             |
| PX10R-F <u>H</u> X-XXX                                        | 45.4 lbs (20.6 kgs)                             |
| PX10R-F <u>S</u> X-XXX                                        | 43.9 lbs (19.9 kgs)                             |
| Add 4.65 lbs (2.11 kg) for Aluminum air motor section         |                                                 |
| Add 11.09 lbs (5.03 kg) for Stainless Steel air motor section |                                                 |
| Air Section Service Kit                                       | 637397                                          |
| Major Air Valve Assembly                                      |                                                 |
| PX10 <u>A</u> -XXX-XXX                                        | 637395-3                                        |
| PX10 <u>R</u> -XXX-XXX                                        | 637395-1                                        |
| PX10 <u>S</u> -XXX-XXX                                        | 637395-5                                        |
| PE10 <u>A</u> -XXX-XXX                                        | 637395-4                                        |
| PE10 <u>R</u> -XXX-XXX                                        | 637395-2                                        |
| PE10 <u>S</u> -XXX-XXX                                        | 637395-6                                        |
| Fluid Section Service Kit                                     | 637401-XX                                       |

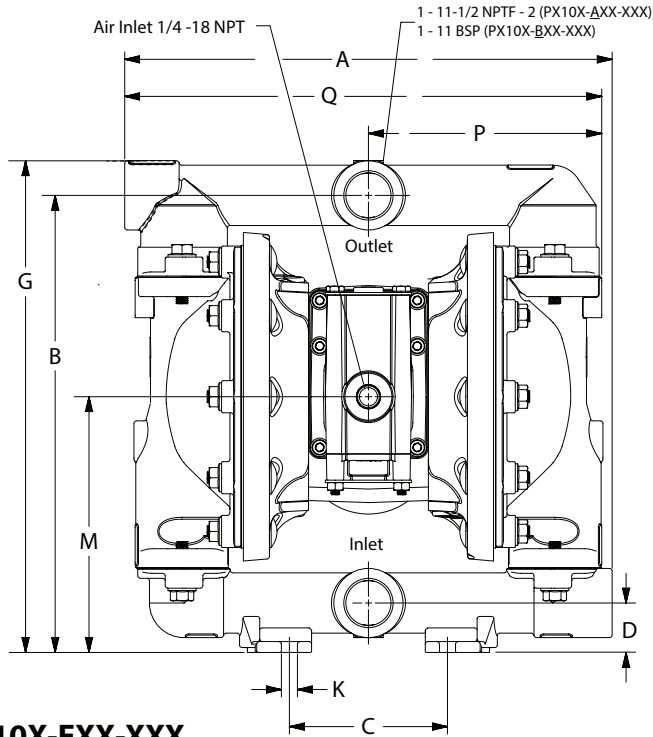
PERFORMANCE

|                                                                                                                                                                                                         |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Maximum Air Inlet Pressure                                                                                                                                                                              | 120 psig (8.3 bar)              |
| Maximum Material Inlet Pressure                                                                                                                                                                         | 10 psig (0.69 bar)              |
| Maximum Outlet Pressure                                                                                                                                                                                 | 120 psig (8.3 bar)              |
| Maximum Flow Rate (flooded inlet)                                                                                                                                                                       | 52.2 gpm (197.6 lpm)            |
| Displacement / Cycle @ 100 psig                                                                                                                                                                         | 0.232 gal. (0.88 lit.)          |
| Maximum Particle Size                                                                                                                                                                                   | 1/8" dia. (3.3 mm)              |
| Maximum Temperature Limits (diaphragm / ball / seat material)                                                                                                                                           |                                 |
| E.P.R. / EPDM                                                                                                                                                                                           | -60° to 280° F (-51° to 138° C) |
| Hytrel®                                                                                                                                                                                                 | -20° to 180° F (-29° to 82° C)  |
| Nitrile                                                                                                                                                                                                 | 10° to 180° F (-12° to 82° C)   |
| Polypropylene                                                                                                                                                                                           | 32° to 175° F (0° to 79° 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) |
| Noise Level @ 70 psig - 60 cpm                                                                                                                                                                          | 80.6 dB(A) <sup>①</sup>         |
| ① 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. |                                 |

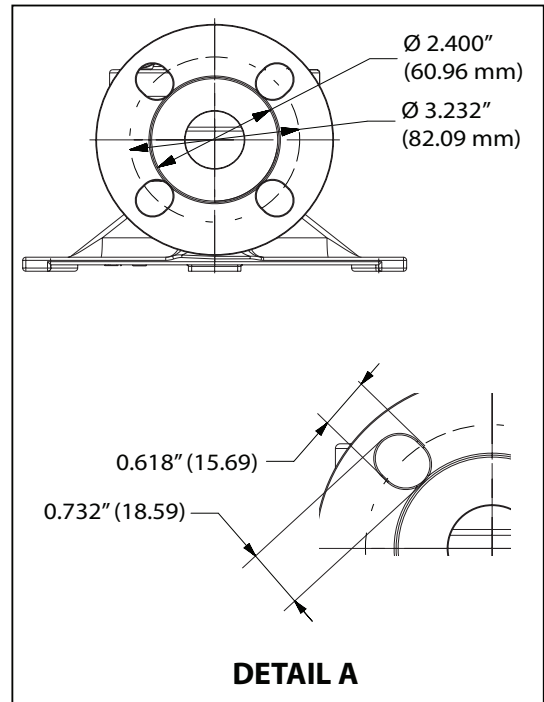
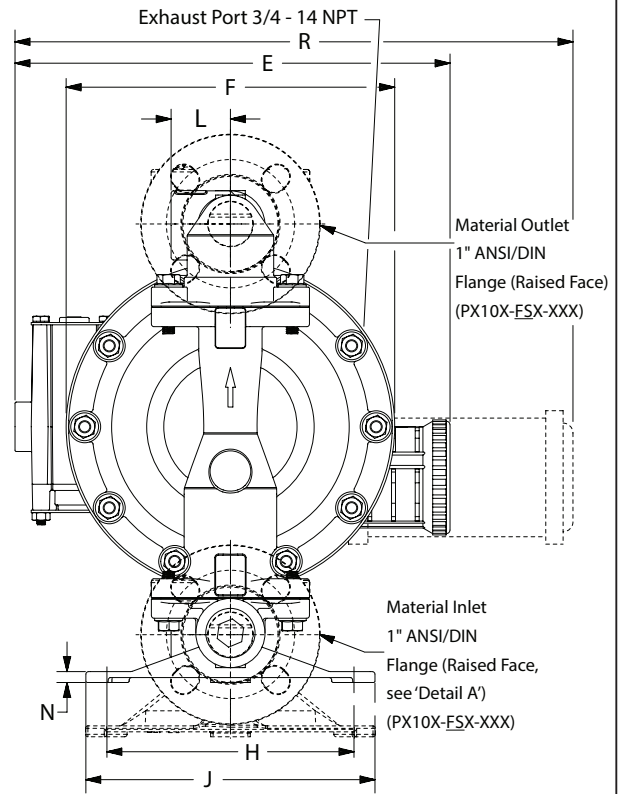
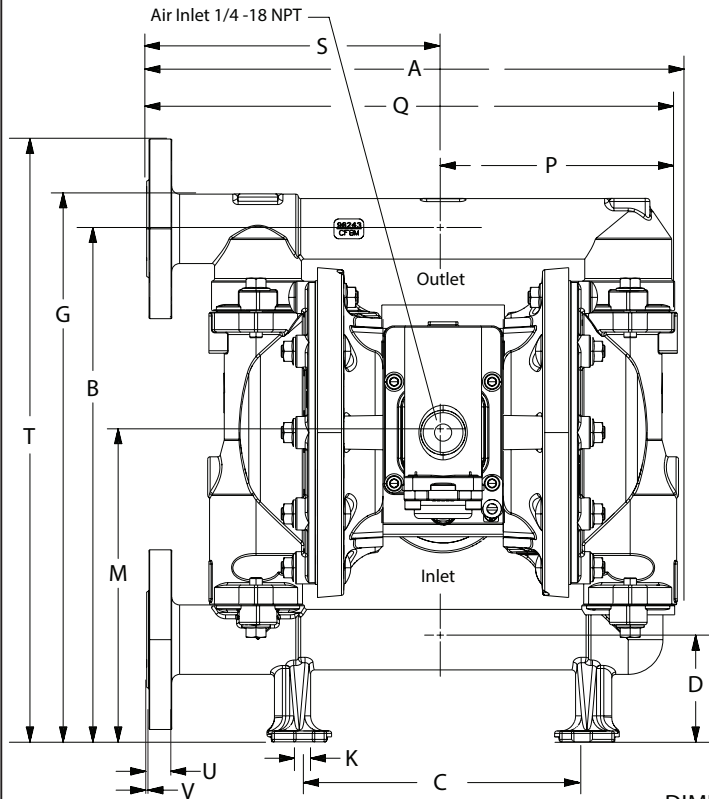
PX10X-XXX-XXX  
637401-XX  
Diaphragm Material  
Ball Material  
EXAMPLE: Model #PD10A-ASP-AAA  
Fluid Section Service Kit is 637401-AA

## DIMENSIONAL DATA

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



**PX10X-FXX-XXX**



### DIMENSIONS

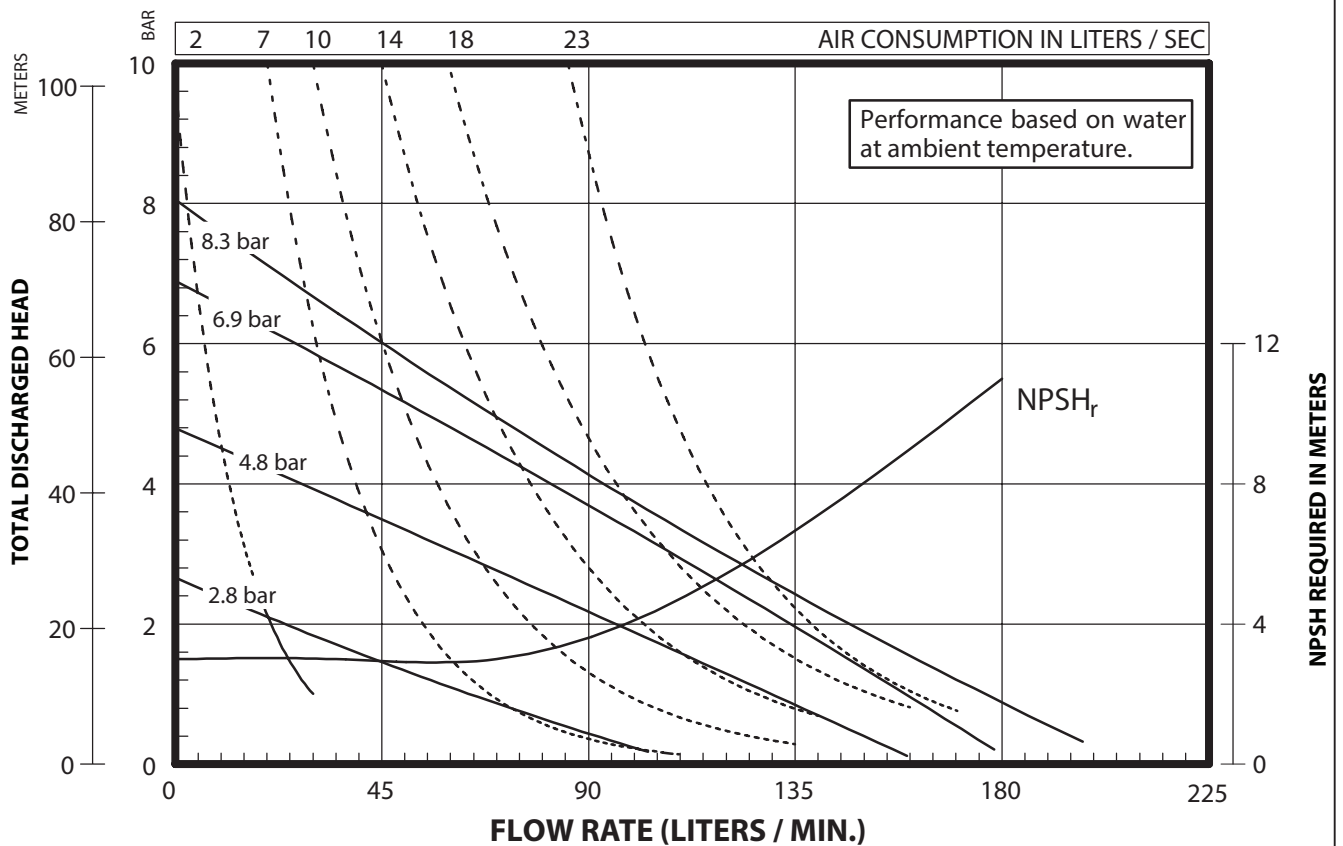
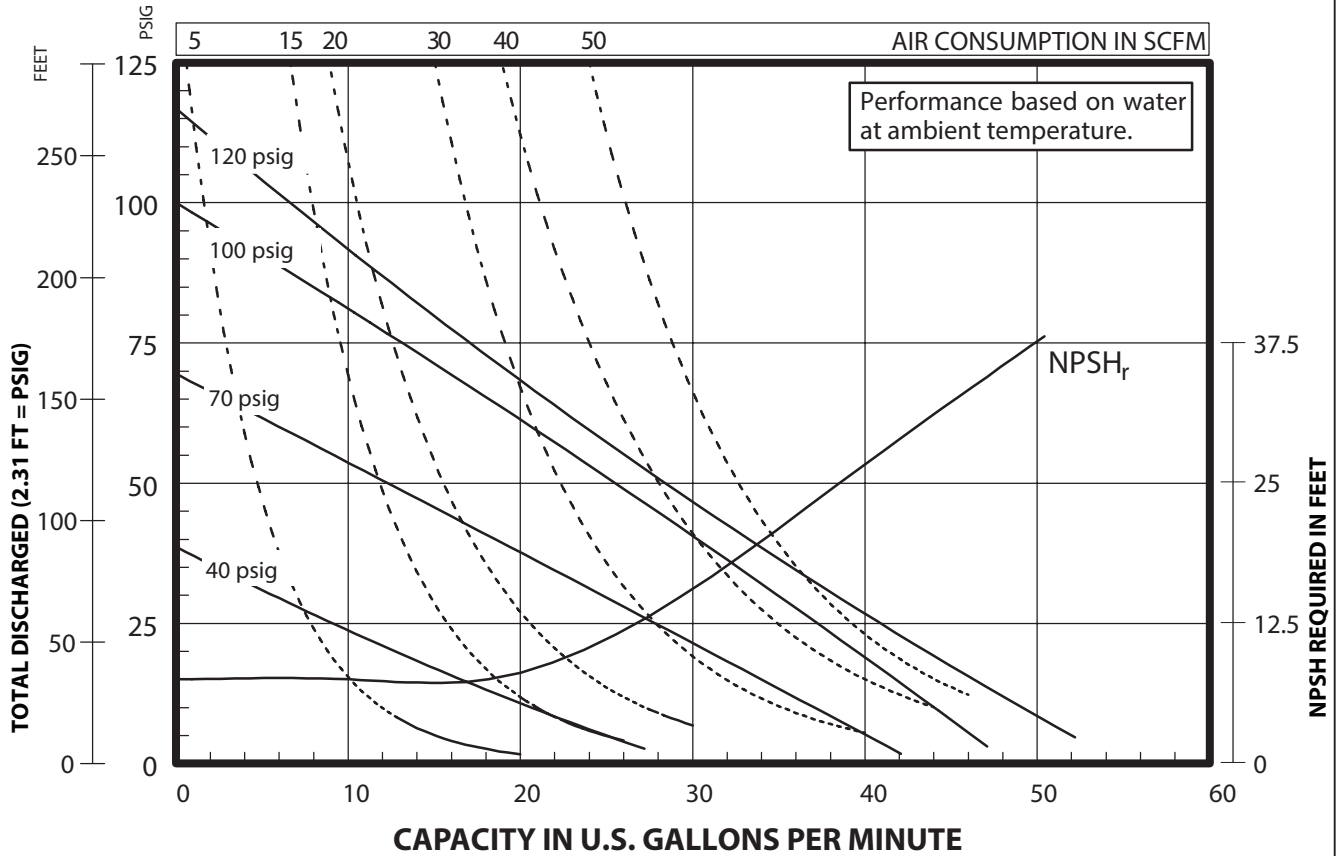
|                       |                       |                      |                              |
|-----------------------|-----------------------|----------------------|------------------------------|
| A - 12.34" (313.4 mm) | E - see below         | J - 7.31" (185.6 mm) | N - see below                |
| B - 11.56" (293.6 mm) | F - see below         | K - 0.4" (10.1 mm)   | P - 5.84" (148.3 mm)         |
| C - 4" (101.6 mm)     | G - 12.43" (315.7 mm) | L - 1.5" (38.1 mm)   | Q - 12" (304.8 mm)           |
| D - 1.25" (31.7 mm)   | H - 6.25" (158.7 mm)  | M - 6.46" (164.0 mm) | R - see below                |
|                       | "E"                   | "F"                  | "R"                          |
| PX10A-XXX-XXX         | -----                 | 8.12" (206.2 mm)     | 14.03" (356.3 mm)            |
| PX10R-XXX-XXX         | 11.09" (281.6 mm)     | 8.31" (211.0 mm)     | -----                        |
| PX10S-XXX-XXX         | -----                 | 8.18" (207.7 mm)     | 13.84" (351.5 mm)            |
|                       |                       |                      | "N"                          |
|                       |                       |                      | PX10X-XAX-XXX 0.25" (6.3 mm) |
|                       |                       |                      | PX10X-XCX-XXX 0.28" (7.1 mm) |
|                       |                       |                      | PX10X-XHX-XXX 0.28" (7.1 mm) |
|                       |                       |                      | PX10X-XSX-XXX 0.28" (7.1 mm) |

**PX10X-FXX-XXX**

|                       |                       |                      |                       |                       |
|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| A - 13.37" (339.5 mm) | D - 2.57" (65.2 mm)   | M - 7.79" (197.8 mm) | Q - 13.30" (337.8 mm) | T - 15.19" (385.8 mm) |
| B - 12.92" (328.1 mm) | G - 13.80" (350.5 mm) | N - 0.28" (7.1 mm)   | R - 13.83" (351.2 mm) | U - 0.63" (16.0 mm)   |
| C - 7" (177.8 mm)     | K - 0.4" (10.1 mm)    | P - 5.83" (148.0 mm) | S - 7.47" (187.9 mm)  | V - 0.60" (15.2 mm)   |

## PERFORMANCE CURVES

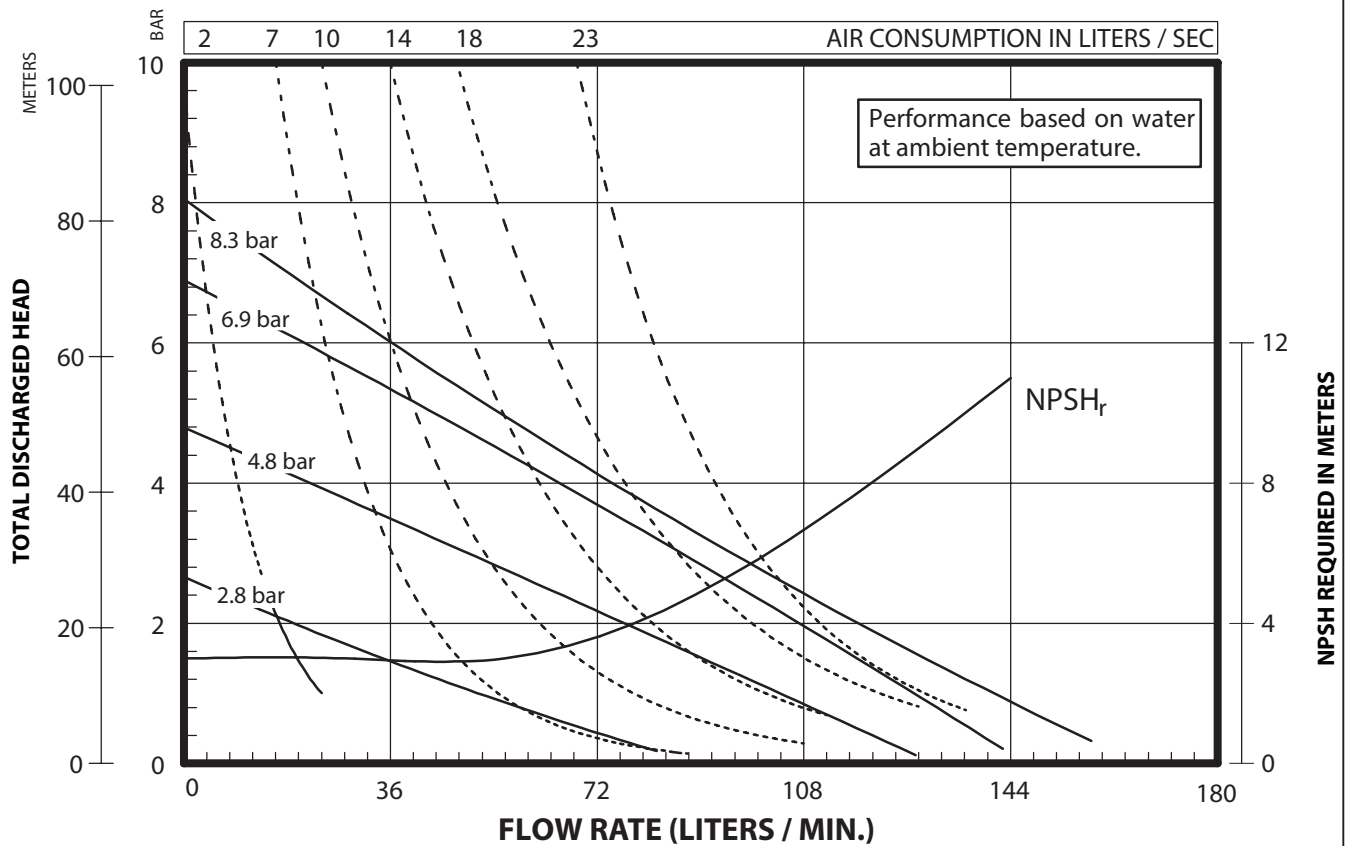
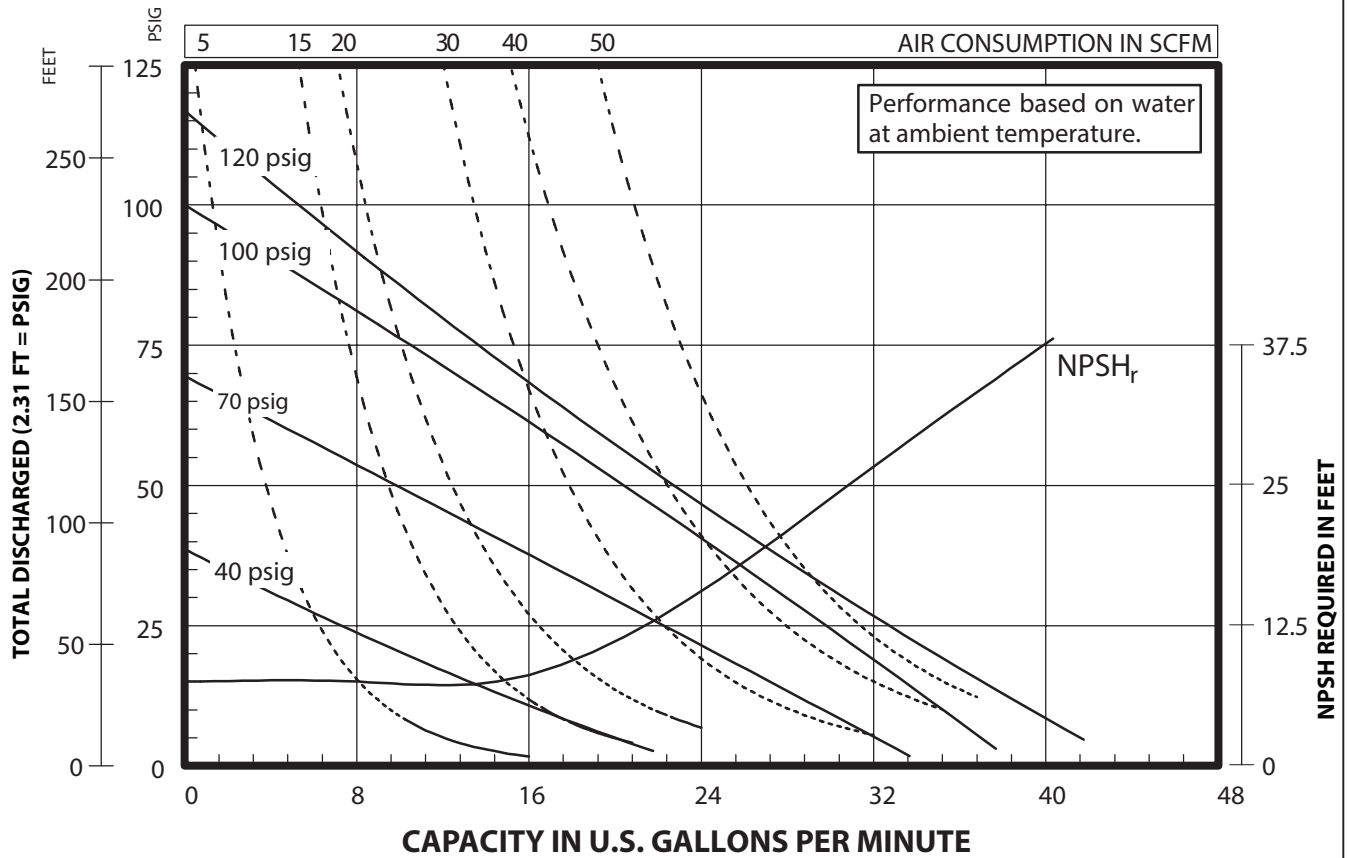
### PX10X-XXX-XXX 1" METALLIC DIAPHRAGM PUMP



NOTE: Performance tested with 95845 Diaphragm Check Valve.

## PERFORMANCE CURVES

### PE10X-XXX-XXX-XXEX & PE10X-XXX-XXX-XXFX 1" METALLIC DIAPHRAGM PUMP



NOTE: Performance tested with 95845 Diaphragm Check Valve.