

# SALES AND ENGINEERING DATA

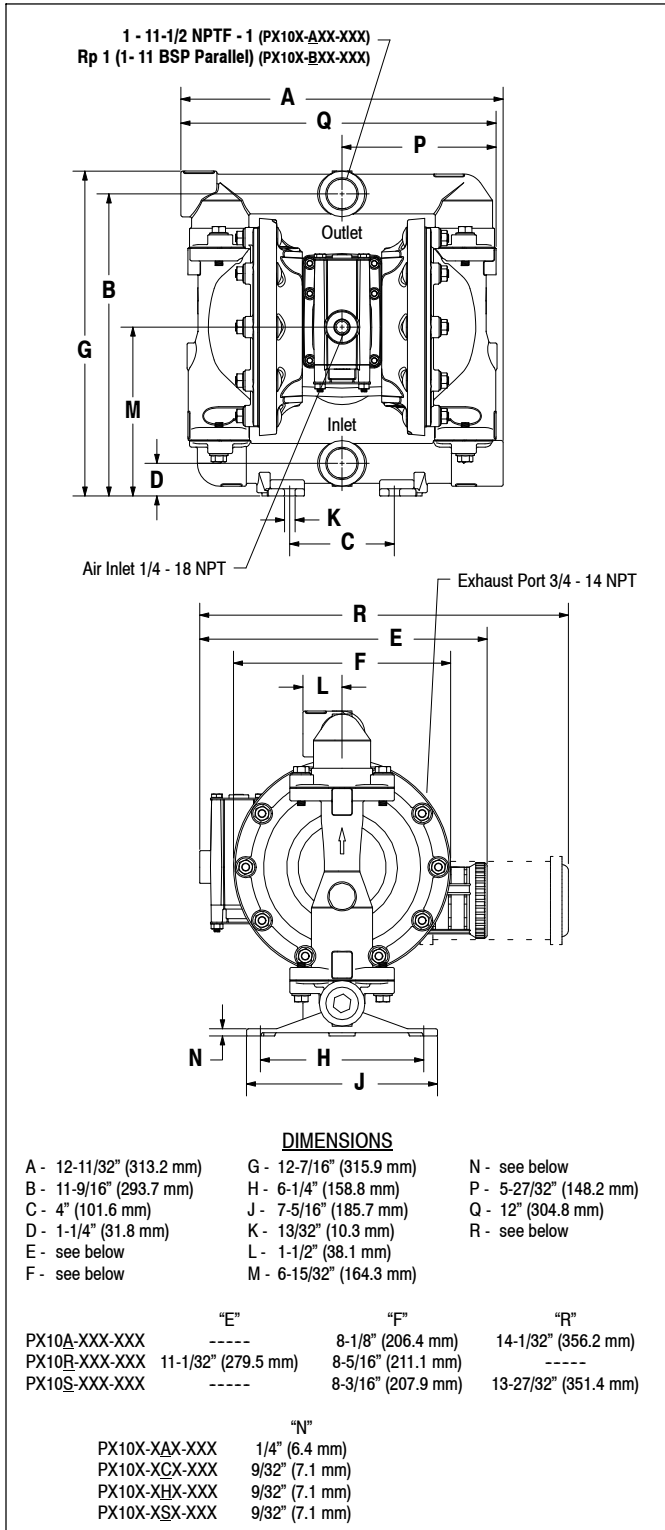
RATIO SERIES: **1:1**

FLUID PSIG RANGE: **20 - 120**

## PD10X-XXX-XXX AND PE10X-XXX-XXX 1" METALLIC DIAPHRAGM PUMP

RELEASED: 4-13-04  
REVISED: 5-25-18  
(REV: H) S-1305

### DIMENSIONAL DATA



### SPECIFICATIONS

#### CONSTRUCTION

<b>Model Series</b> .....	PD10X-XXX-XXX PE10X-XXX-XXX
<b>Pump Type</b> .....	Metallic, Air Operated, Double Diaphragm
<b>Ratio</b> .....	1:1
<b>Material Inlet / Outlet</b>	
PX10X-AXX-XXX (female) .....	1 - 11-1/2 NPTF - 1
PX10X-BXX-XXX (female) .....	Rp 1 (1 - 11 BSP Parallel)
<b>Air Inlet (female)</b> .....	1/4 - 18 NPT
<b>Air Exhaust (female)</b> .....	3/4 - 14 NPT
<b>Weight</b> ....	PX10R-XAX-XXX ..... 20.65 lbs (9.37 kgs)
	PX10R-XCX-XXX ..... 35.2 lbs (16.0 kgs)
	PX10R-XHX-XXX ..... 39.6 lbs (18.0 kgs)
	PX10R-XXS-XXX ..... 38.2 lbs (17.3 kgs)
	add 4.65 lbs (2.21 kg) for Aluminum air motor section
	add 11.09 lbs (5.03 kg) for Stainless Steel air motor section
<b>Air Section Service Kit</b> .....	637397
<b>Major Air Valve Assembly</b>	
PD10A-XXX-XXX .....	637395-3
PD10R-XXX-XXX .....	637395-1
PD10S-XXX-XXX .....	637395-5
PE10A-XXX-XXX .....	637395-4
PE10R-XXX-XXX .....	637395-2
PE10S-XXX-XXX .....	637395-6
<b>Fluid Section Service Kit</b> .....	637401-XX

**PX10X-XXX-X**    
**637401 -**   Diaphragm Material  
Ball Material

EXAMPLE: Model # PD10A-ASP-AAA  
Fluid Section Service Kit is 637401-AA

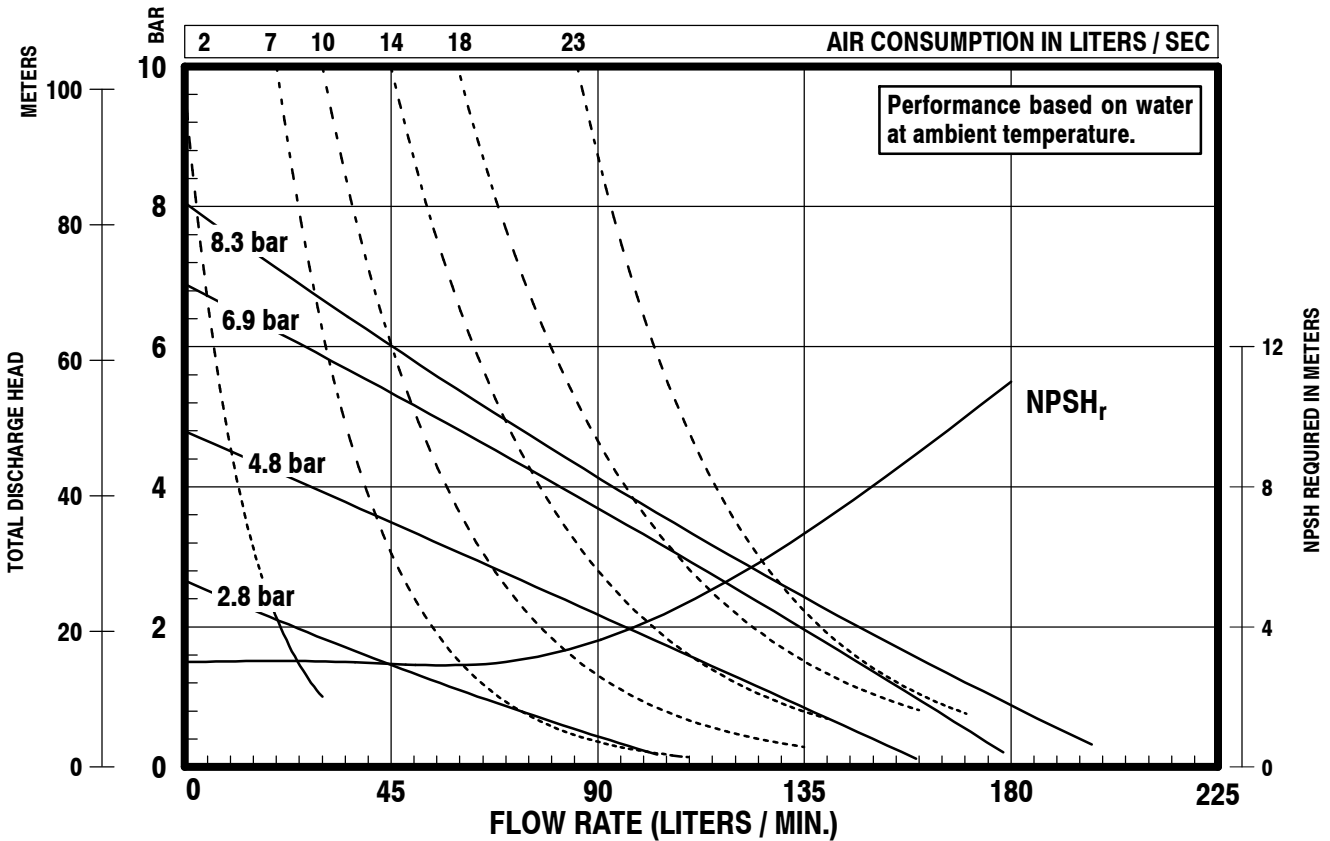
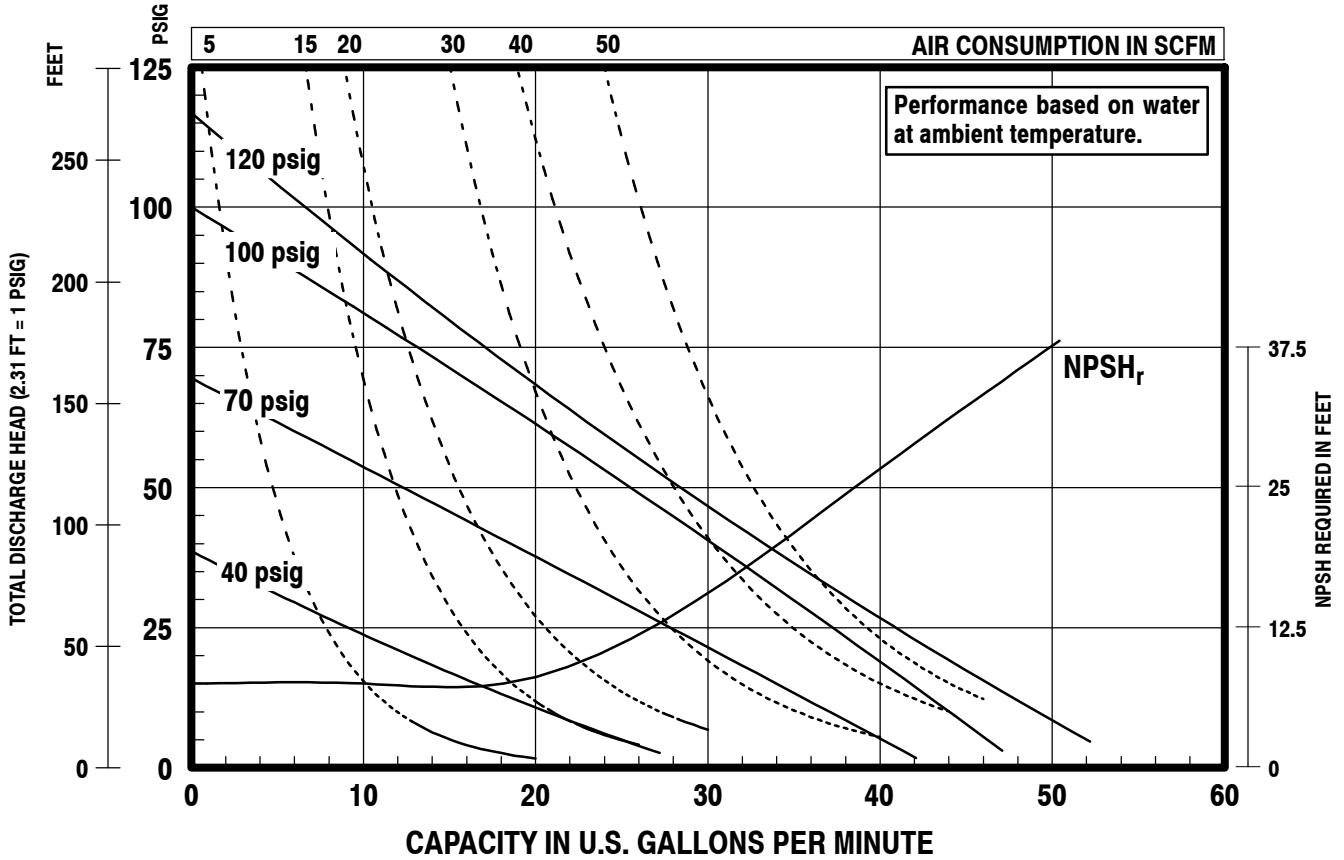
#### PERFORMANCE

<b>Air Inlet Pressure Range</b> .....	20 - 120 psig (1.4 - 8.3 bar)
<b>Maximum Material Inlet Pressure</b> ..	10 psig (0.69 bar)
<b>Fluid Pressure Range</b> .....	20 - 120 psig (1.4 - 8.3 bar)
<b>Maximum Flow Rate (flooded inlet)</b> ...	52.2 gpm (197.6 lpm)
<b>Displacement / Cycle @ 100 psig</b> ..	0.232 gal. (0.88 lit.)
<b>Maximum Particle Size</b> .....	1/8" dia. (3.3 mm)
<b>Maximum Temperature Limits (diaphragm / ball / seat material)</b>	
Hytrel® .....	-20° - 180° F (-29° - 82° C)
Nitrile .....	10° - 180° F (-12° - 82° C)
Polypropylene .....	35° - 175° F (2° - 79° C)
Santoprene® .....	-40° - 225° F (-40° - 107° C)
PTFE .....	40° - 225° F (4° - 107° C)
Viton® .....	-40° - 350° F (-40° - 177° C)
<b>Noise Level @ 70 psig - 60 cpm</b> ...	80.6 dB(A)①

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-PNEUROPS5.1 using four microphone locations.  
**NOTE:** Performance tested with 95845 Diaphragm Check Valve.

# PERFORMANCE CURVES

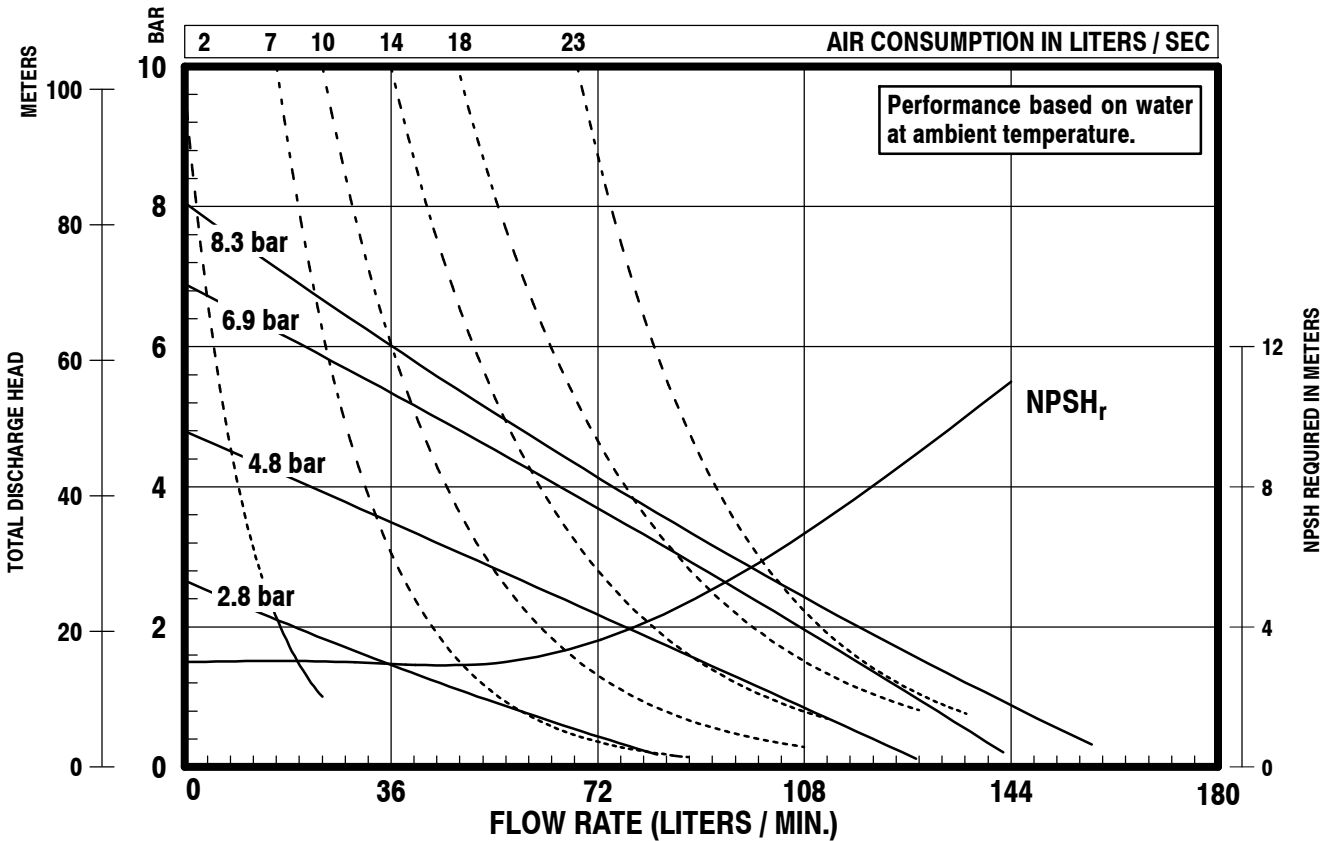
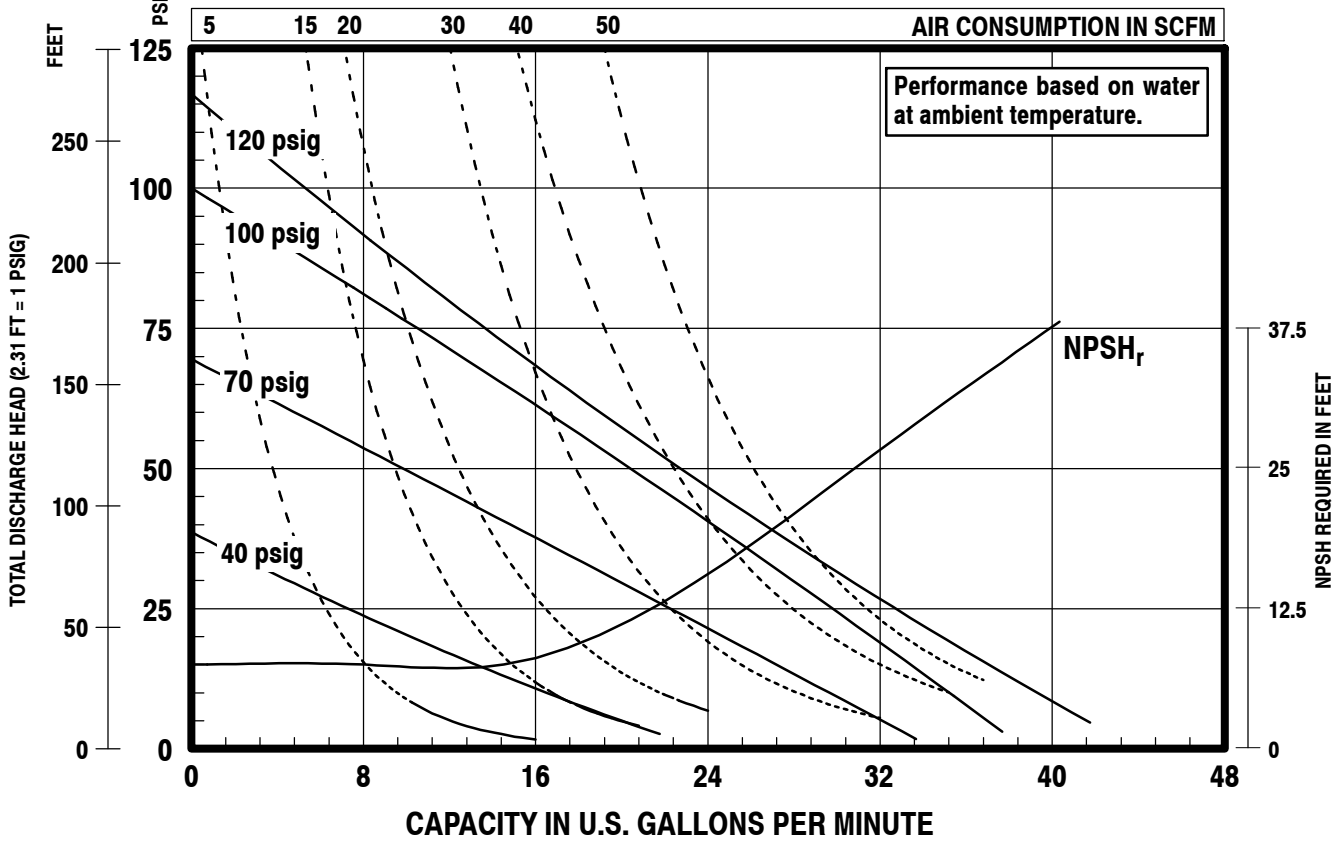
## PX10X-XXX-XXX 1" METALLIC DIAPHRAGM PUMP



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.

