

SALES & ENGINEERING DATA

PX01X-XXX-XXX-AXXX

1/4" DIAPHRAGM PUMP

RATIO
SERIES:

1:1

FLUID PSIG
RANGE:

10 - 125

RELEASED:

3-7-13

REVISED:

7-14-14

(REV. C)

DIMENSIONAL DATA

* Dimensions N & P are for models PE01X only.
Dotted lines show options for PE01X pumps.

◆ X, Y, Z are for multiport models (HEX, HLX, HRX) only.

SPECIFICATIONS

Model Series

PD01X-XXX-XXX-AXXXX, PE01X-XXX-XXX-AXXX

Pump Type..

Non-Metallic Air Operated Double Diaphragm

Ratio

1:1

Air Inlet

Q - 1/4 - 18 PTF SAE Short

Weight

Polypropylene..... 2.86 lbs (1.30 kgs)

PVDF..... 3.88 lbs (1.76 kgs)

Acetal..... 3.52 lbs (1.60 kgs)

PERFORMANCE

Maximum Air Inlet Pressure

125 psig (8.6 bar)

Minimum Air Inlet Pressure.....

10 psig (0.69 bar)

Maximum Outlet Pressure

125 psig (8.6 bar)

Maximum Flow Rate

5.3 gpm (20 lpm)

Maximum Material Inlet Pressure....

10 psig (0.69 bar)

Displacement / Cycle @ 125 psig

0.019 gal / 0.072 ltrs

Maximum Particle Size

1/16" dia.(1.6 mm)

Maximum Temperature Limits (diaphragm / ball / seat material)

Acetal..... 10° to 180° F (-12° to 82° C)

E.P.R. / EPDM..... -60° to 280° F (-51° to 138° C)

Kynar® PVDF..... 10° to 200° F (-12° to 93° C)

Hytrell®

-20° to 150° F (-29° to 66° C)

Neoprene

0° to 200° F (-18° to 93° C)

Nitrile®

10° to 180° F (-12° to 82° C)

Polypropylene..... 35° to 175° F (2° to 79° C)

Viton®

-40° to 350° F (-40° to 177° C)

Santoprene®..... -40° to 225° F (-40° to 107° C)

PTFE..... 40° to 225° F (4° to 107° C)

Noise Level @ 70 psig, 60 cpm.....

62.3 dB(A)①

① The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (L_{Aeq}) to meet the intent of ANSI S1.13-2005, CAGI-PNEUROP S5.1.

Mounting Adapter Plate Optional Accessory Kit (24123879) available. Please contact your nearest **ARO / Ingersoll Rand** customer service or distributor for details.

DIMENSIONS

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

A - 7.2" (182 mm)	H - 1.9" (48.6 mm)	Q - 1/4 - 18 PTF SAE Short	Z - 1/4 - 18 PTF SAE Short
B - 3.9" (100.0 mm)	J - 2.4" (61 mm)	R - 3/4-14 NPTF	
C - 4.6" (117.0 mm)	K - 3.9" (99 mm)	S - 1/4 NPTF / BSPT Hybrid*	
D - 6.8" (173.0 mm)	L - 2.1" (53 mm)	T - 1/4 NPTF / BSPT Hybrid*	
E - 0.3" (8.8 mm)	M - 3.2" (81 mm)	U - 3/4-14 NPTF	
F - 6.1" (156 mm)	N - 7.2" (184 mm)	X - 1/4-18 NPTF / BSPT Hybrid	
G - 0.8" (20.7 mm)	P - 5.6" (142.2 mm)	Y - 1/4 NPTF / BSPT Hybrid	

* Multiport Options Discharge Manifold has (2) and Inlet Manifold has (3).

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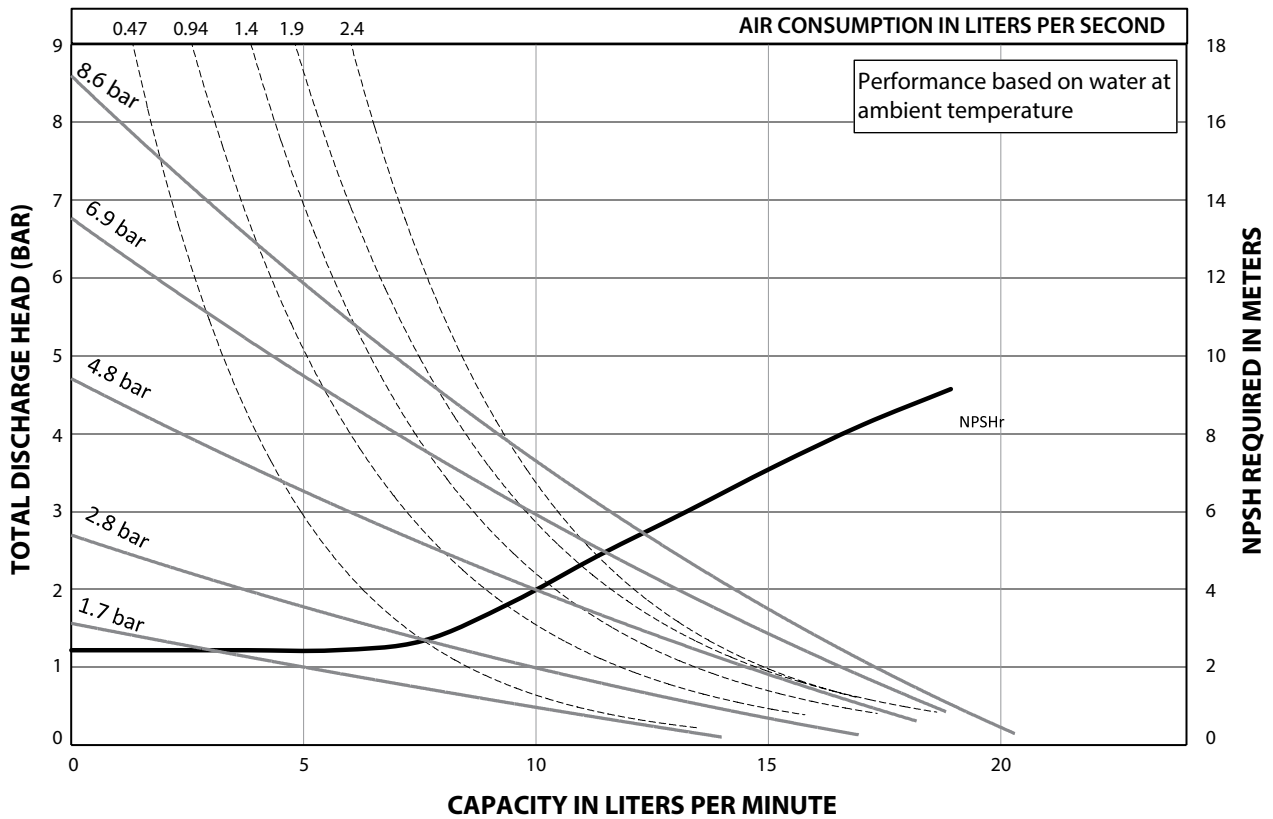
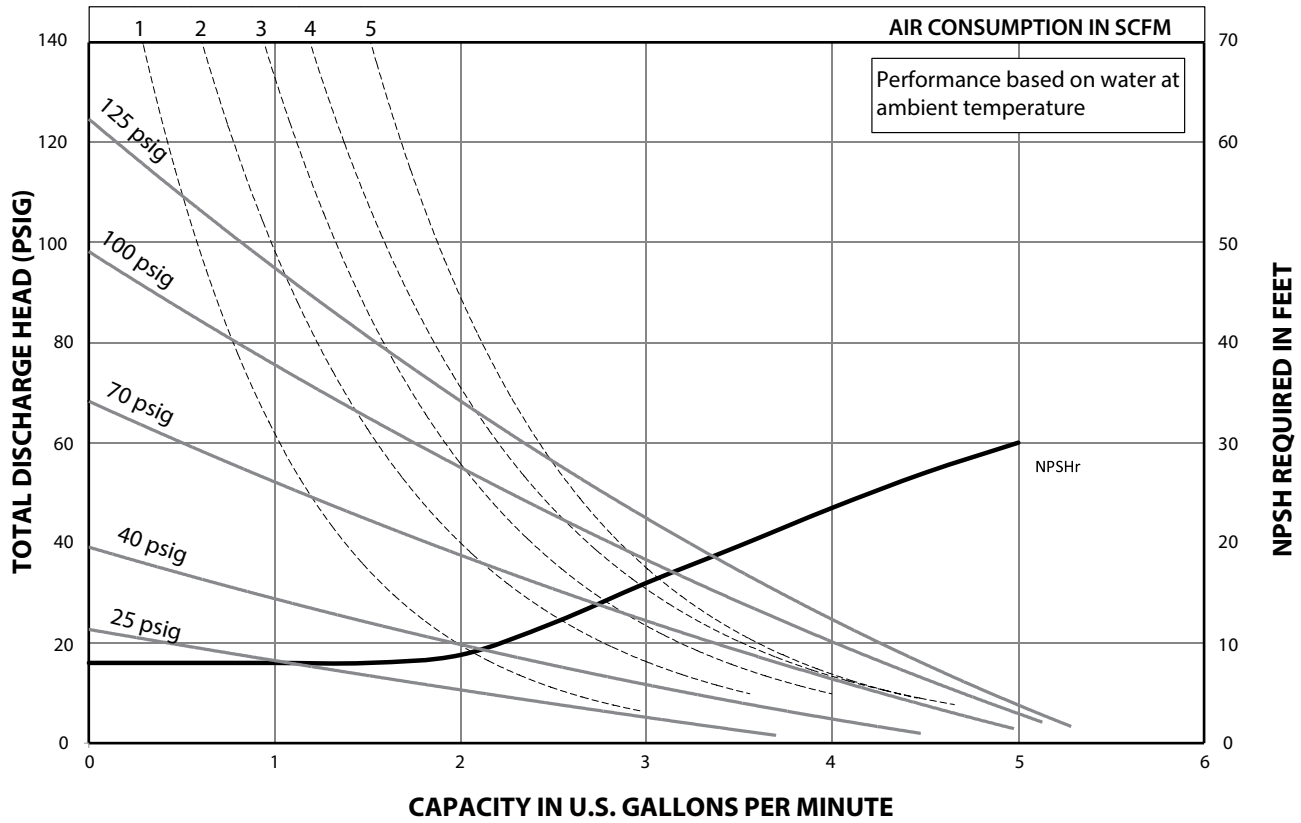
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PERFORMANCE CURVES

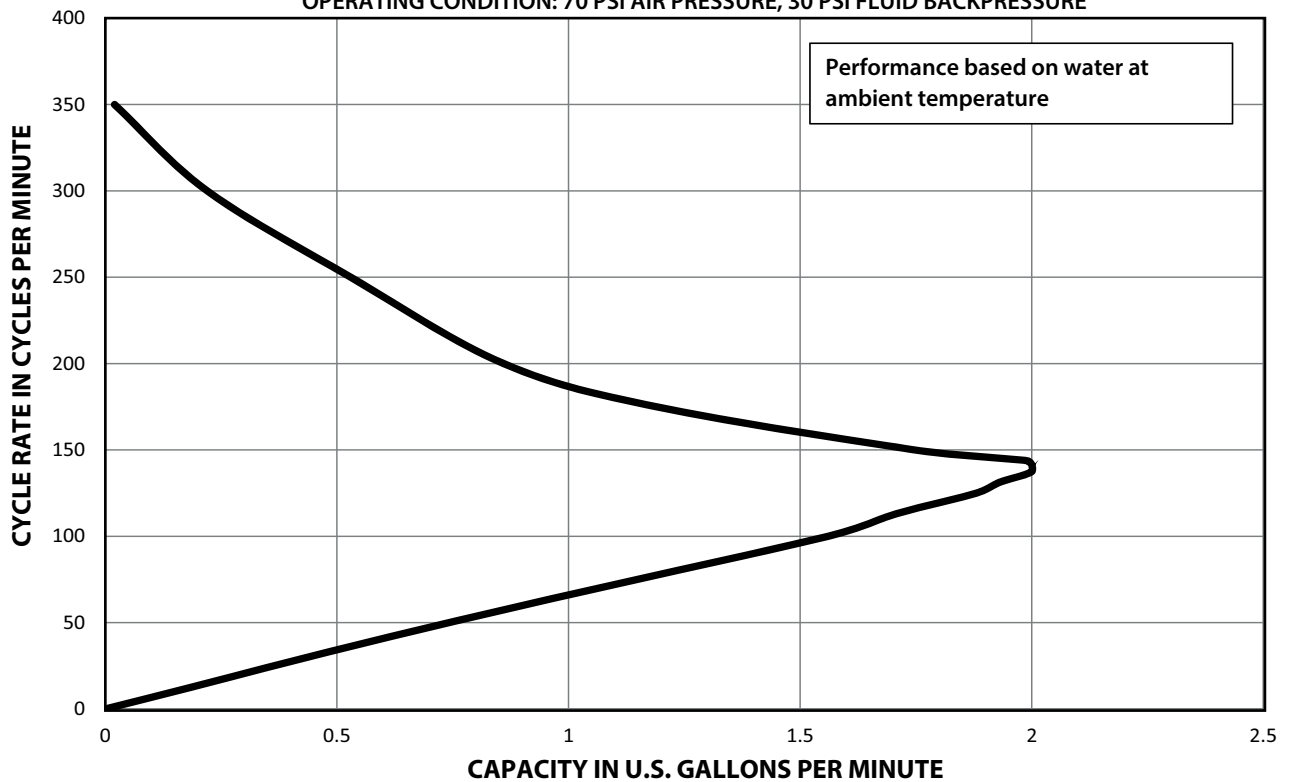
PD01P-XXS-XXX 1/4" NON-METALLIC DIAPHRAGM PUMP



PERFORMANCE CURVES

PE01X-XXX-XXX SOLENOID-CONTROLLED TIME-BASED FLOW RATE

OPERATING CONDITION: 70 PSI AIR PRESSURE, 30 PSI FLUID BACKPRESSURE



OPERATING CONDITION: 4.8 BAR AIR PRESSURE, 2.1 BAR FLUID BACKPRESSURE

