

# SALES AND ENGINEERING DATA

RATIO SERIES:	<b>1:1</b>
FLUID PSIG RANGE:	<b>10 - 100</b>

## PD05X-XXS-XXX-B, PE05X -XXS-XXX-B AND PZ05X-XXS-XXX-B 1/2" METALLIC DIAPHRAGM PUMP



RELEASED: 11-23-05  
REVISED: 6-17-22  
(REV: H) S-1381

### DIMENSIONAL DATA

**DIMENSIONS**

A - 8-1/8" (206.0 mm)	J - 5-1/2" (139.7 mm)
B - 11-1/16" (280.4 mm)	K - 5/16" (8.0 mm)
C - 6-1/8" (155.6 mm)	L - 1-1/4" (31.8 mm)
D - 2" (50.8 mm)	M - 3/8" (9.5 mm)
E - see below	N - 6-5/16" (159.9 mm)
F - 6" (152.4 mm)	P - see below
G - see below	Q - 1-1/4" (31.6 mm)
H - 4-7/8" (123.8 mm)	R - see below
	S - 3-1/16" (77.8 mm)

<b>Dimension</b>	<b>PX05A-XXS-XXX-B</b>	<b>PX05R-XXS-XXX-B</b>
"E"	8-3/16" (207.9 mm)	6-23/32" (170.6 mm)
"G"	11-3/4" (297.9 mm)	11-21/32" (296.0 mm)
"P"	4-5/16" (109.3 mm)	3-27/32" (97.6 mm)
"R"	8-7/32" (208.5 mm)	7-11/16" (195.2 mm)

**NOTE:** Dimensions are shown in inches and (mm), supplied for reference only and are typically rounded up to the nearest 1/16 inch.

### SPECIFICATIONS

#### CONSTRUCTION

<b>Model Series</b> .....	PD05X-XXS-XXX-B PE05X-XXS-XXX-B PZ05X-XXS-XXX-B
<b>Pump Type</b> .....	Metallic, Air Operated, Double Diaphragm
<b>Ratio</b> .....	1:1
<b>Material Inlet / Outlet (female)</b>	
PX05X-AXS-XXX-B .....	1/2 - 14 NPTF - 1
PX05X-BXS-XXX-B .....	Rp 1/2 (1/2 - 14 BSP, parallel)
<b>Air Inlet</b>	
PX05A-XXS-XXX-B .....	1/4 - 18 NPTF - 1
PX05R-XXS-XXX-B .....	1/4 - 18 P.T.F. SAE short
<b>Air Exhaust</b>	
PX05A-XXS-XXX-B .....	3/8 - 18 NPTF - 1
PX05R-XXS-XXX-B .....	internal
(optional)(PX05R-X-X-B) .....	3/8 - 18 NPTF - 1
<b>Weight</b> .PX05A-XAS-XXX-B .....	10.36 lbs (4.70 kgs)
PX05A-XSS-XXX-B .....	16.57 lbs (7.52 kgs)
PX05R-XAS-XXX-B .....	8.04 lbs (3.65 kgs)
PX05R-XSS-XXX-B .....	14.25 lbs (6.46 kgs)
<b>Air Section Service Kit</b> .....	637428
<b>Fluid Section Service Kit</b> .....	637427-XX

**PX05X-XXS-X-XX-B**  
637427-XX

Diaphragm Material  
Ball Material

EXAMPLE: Model #PD05A-AAS-SAA-B  
Fluid Section Service Kit is 637427-AA

#### PERFORMANCE

<b>Air Inlet Pressure Range</b> .....	10 - 100 psig (0.69 - 6.9 bar)
<b>Maximum Material Inlet Pressure</b> ..	10 psig (0.69 bar)
<b>Fluid Outlet Pressure Range</b> .....	10 - 100 psig (0.69 - 6.9 bar)
<b>Maximum Flow Rate (flooded inlet)</b> ..	12.0 g.p.m. (45.4 lpm)
<b>Displacement / Cycle @ 100 psig</b> ..	0.039 gal. (0.15 lit.)
<b>Maximum Particle Size</b> .....	3/32" dia. (2.4 mm)
<b>Maximum Temperature Limits (diaphragm / ball / seat material)</b>	
E.P.R./EPDM .....	-60° to 280° F (-51° to 138° C)
Hytrell .....	-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)
Polyurethane .....	-10° to 150° F (-23° 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)
<b>Noise Level @ 70 psig - 60 cpm</b> ..	75.0 dB(A) <sup>Ⓜ</sup>

Notes:

- ① Tested with 67367 muffler assembly installed.
- ② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LAeq) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROPS S5.1 using four microphone locations.

#### ACCESSORIES:

- 66073-1 Air Line Connection Kit
- 637438 Ported Exhaust Kit
- 93110 Muffler



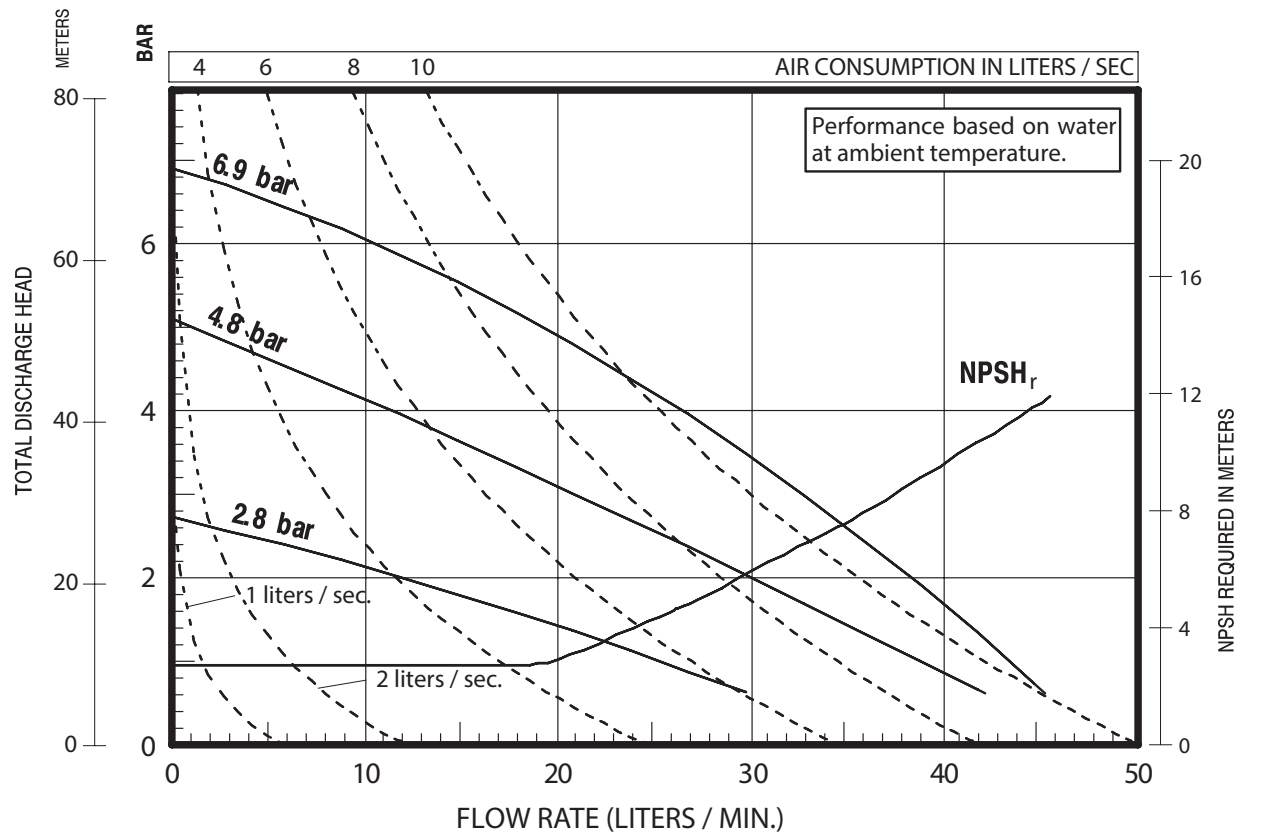
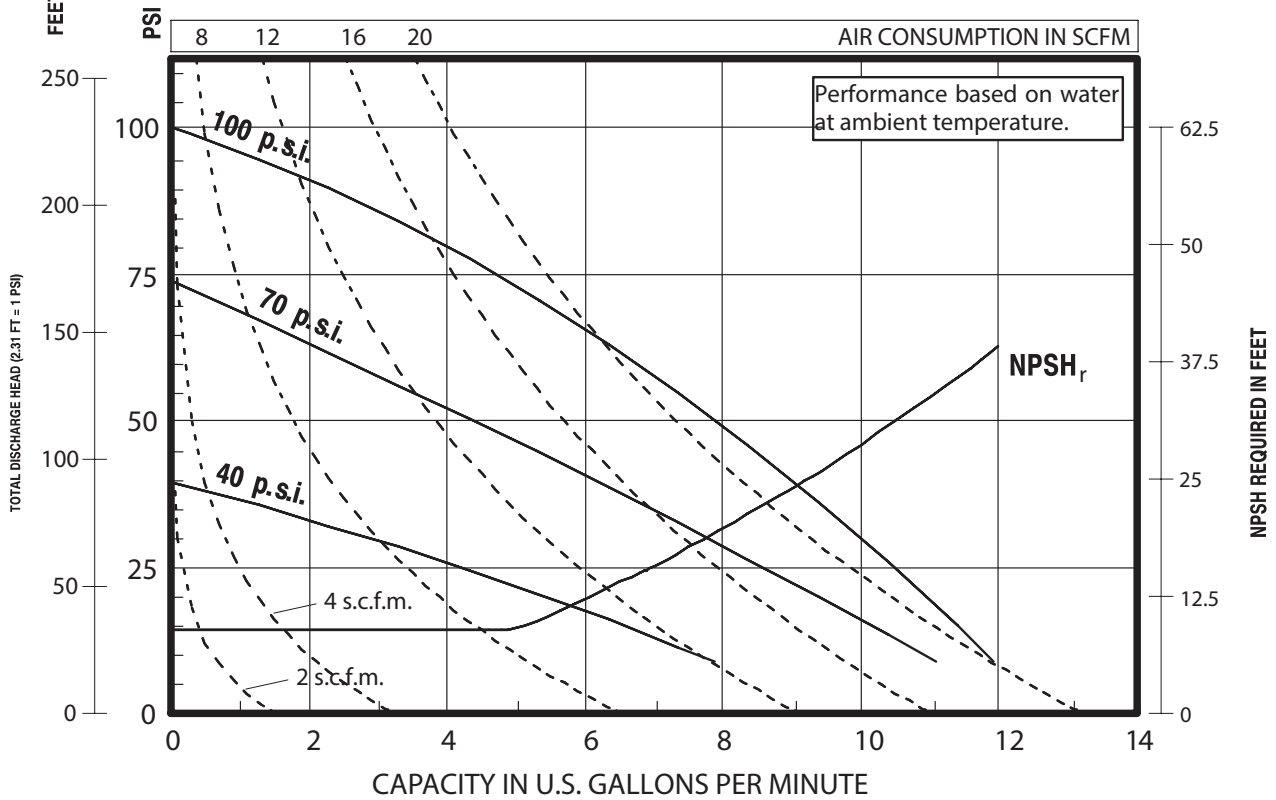
**PUMP SUPPLY**  
INCORPORATED



CCN 15256530

### PERFORMANCE CURVES

PX05X-XXS-XXX-B 1/2" METALLIC DIAPHRAGM PUMP



PX05X-X-X-B SERIES



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