

# SALES AND ENGINEERING DATA

RATIO SERIES:	<b>1:1</b>
FLUID P.S.I. RANGE:	<b>10 - 100</b>

## PD03P-XXS-XXX AND PE03P-XXS-XXX 3/8" NON-METALLIC DIAPHRAGM PUMP



RELEASED: 2-17-06  
REVISED: 12-17-21  
(REV. H) S-1386

### DIMENSIONAL DATA

**DIMENSIONS**

A - 7-31/32" (202.3 mm)	F - 4-31/32" (125.6 mm)	L - 1-3/32" (27.8 mm)
B - 8-17/32" (216.1 mm)	G - 9-5/16" (236.2 mm)	M - 3/8" (9.6 mm)
C - 5-5/8" (142.7 mm)	H - 4-1/16" (102.7 mm)	N - 4-3/8" (111.0 mm)
D - 1-9/32" (32.1 mm)	J - 4-13/16" (121.9 mm)	P - 4-13/32" (110.5 mm)
E - 5-23/32" (145.2 mm)	K - 9/32" (7.2 mm)	Q - 2-13/16" (71.4 mm)

Model	"R" Material Inlet	"S" Material Outlet
PX03P-AXS-XXX	3/8 - 18 NPTF - 1	3/8 - 18 NPTF - 1
PX03P-BXS-XXX	Rp 3/8 (3/8 - 19 BSP)	Rp 3/8 (3/8 - 19 BSP)

**NOTE:** Dimensions are shown in inches and (mm) and are supplied for reference only.

### SPECIFICATIONS

<b>Model Series</b> .....	PD03P-XXS-XXX PE03P-XXS-XXX
<b>Pump Type</b> .....	Non-Metallic, Air Operated, Double Diaphragm
<b>Ratio</b> .....	1:1
<b>Material Inlet / Outlet (female)</b>	
PX03P-AXS-XXX .....	3/8 - 18 NPTF - 1
PX03P-BXS-XXX .....	Rp 3/8 (3/8 - 19 BSP parallel)
<b>Air Inlet (female)</b> .....	1/4 - 18 PTF SAE short
<b>Air Exhaust (standard)</b> .....	internal
(optional)(female) .....	1/2 - 14 NPTF - 1
<b>Weight</b>	
PX03P-XDS-XXX .....	4.16 lbs (1.89 kgs)
PX03P-XES-XXX .....	4.26 lbs (1.93 kgs)
PX03P-XKS-XXX .....	4.50 lbs (2.04 kgs)
PX03P-XLS-XXX .....	4.62 lbs (2.10 kgs)
PX03P-XPS-XXX .....	3.44 lbs (1.56 kgs)
PX03P-XRS-XXX .....	3.50 lbs (1.59 kgs)
<b>Air Section Service Kit</b> .....	637428
<b>Fluid Section Service Kit</b> .....	637429-XX

**PX03P-XXS - X[X][X] - C**  
637429 - [X][X]  
└─ Diaphragm Material  
    └─ Ball Material

EXAMPLE: Model #PD03P-ARS-SAA  
Fluid Section Service Kit is 637429-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 Pressure Range</b> .....	10 - 100 psig (0.69 - 6.9 bar)
<b>Maximum Flow Rate (flooded inlet)</b>	
ball check .....	10.6 gpm (40.1 lpm)
duckbill .....	8.7 gpm (32.9 lpm)
<b>Displacement / Cycle @ 100 psig</b>	
ball check .....	0.022 gal. (0.083 lit.)
duckbill .....	0.018 gal. (0.068 lit.)
<b>Maximum Particle Size - ball check</b> ..	1/16" dia. (1.6 mm)
duckbill .....	fibers
<b>Maximum Temperature Limits (diaphragm / ball / seat material)</b>	
Acetal .....	-20° to 180° F (-29° to 82° C)
E.P.R / EPDM .....	-60° to 280° F (-51° to 138° C)
Hytrel® .....	-20° to 180° F (-29° to 82° C)
Kynar® PVDF .....	10° to 200° F (-12° to 93° C)
Neoprene .....	0° to 200° F (-18° to 93° 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)
<b>Noise Level @ 70 psig - 60 cpm</b> .....	72.7 dB(A) <sup>①</sup>

① 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-PNEUROP S5.1 using four microphone locations.

**ACCESSORIES:**  
66073-1 Air Line Connection Kit  
76763 Wall Mount Bracket

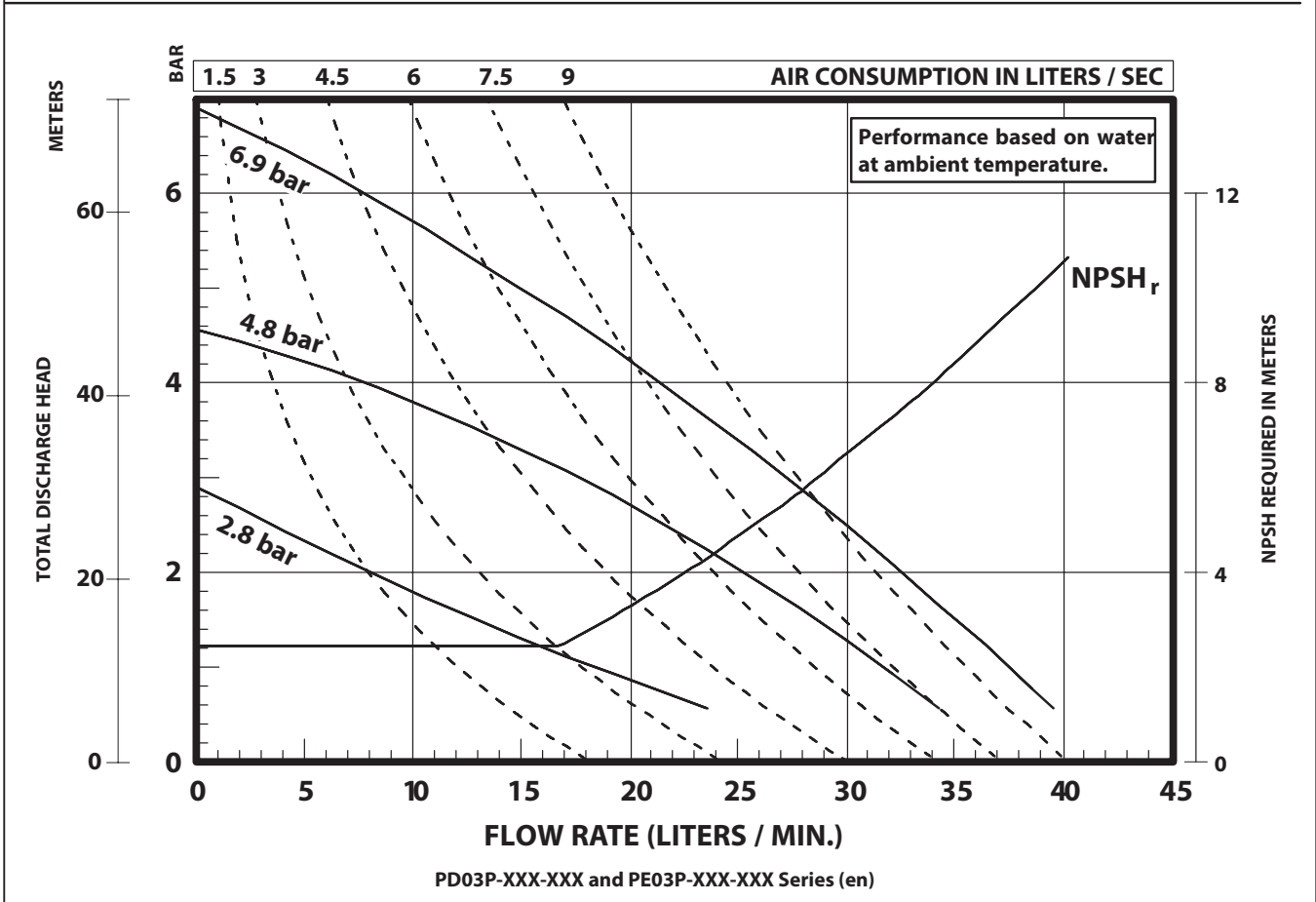
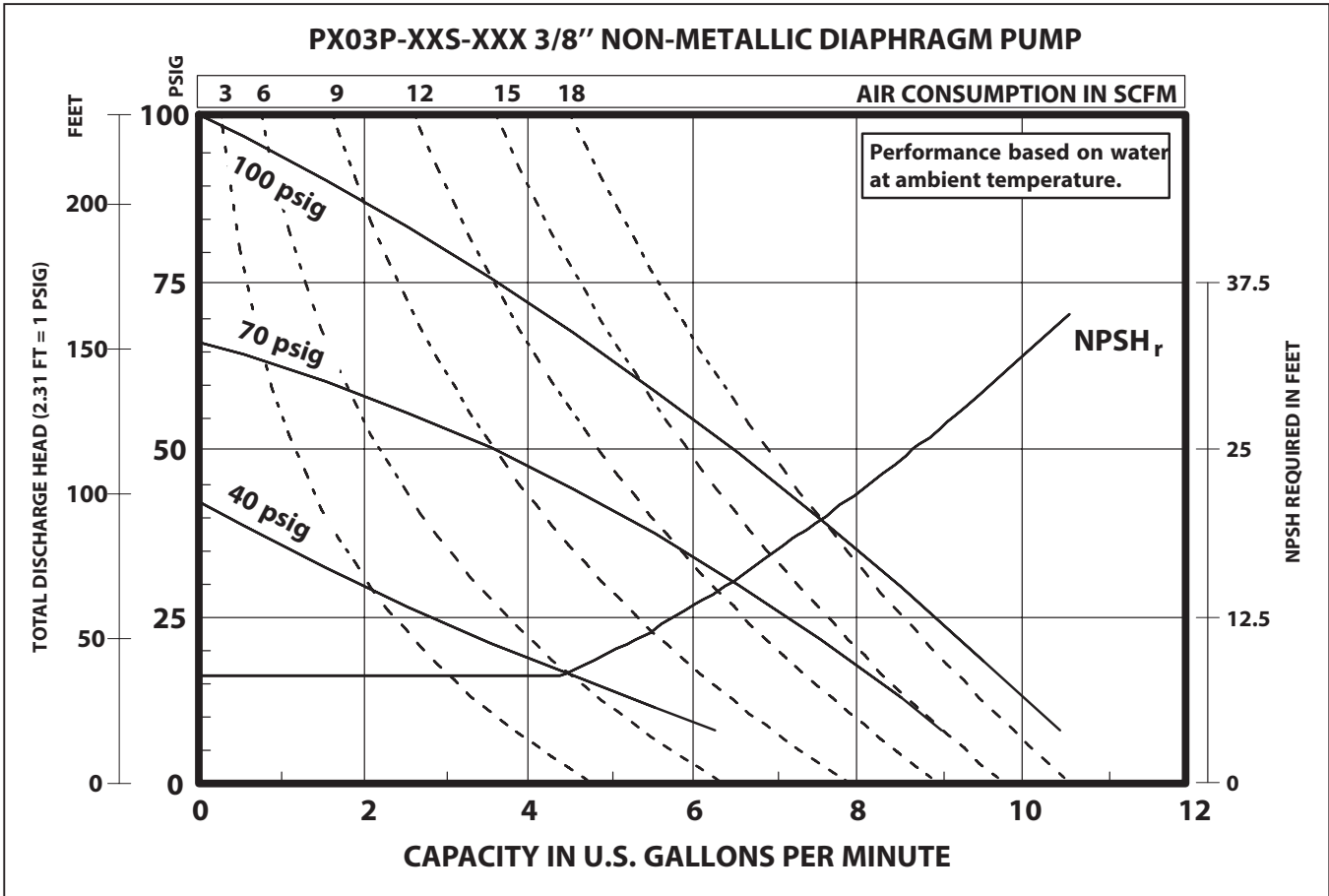
**Dual Inlet/Dual Outlet Kits:**  
637442-1 (NPT Polypropylene)  
637442-2 (NPT Acetal)



CCN 1525557



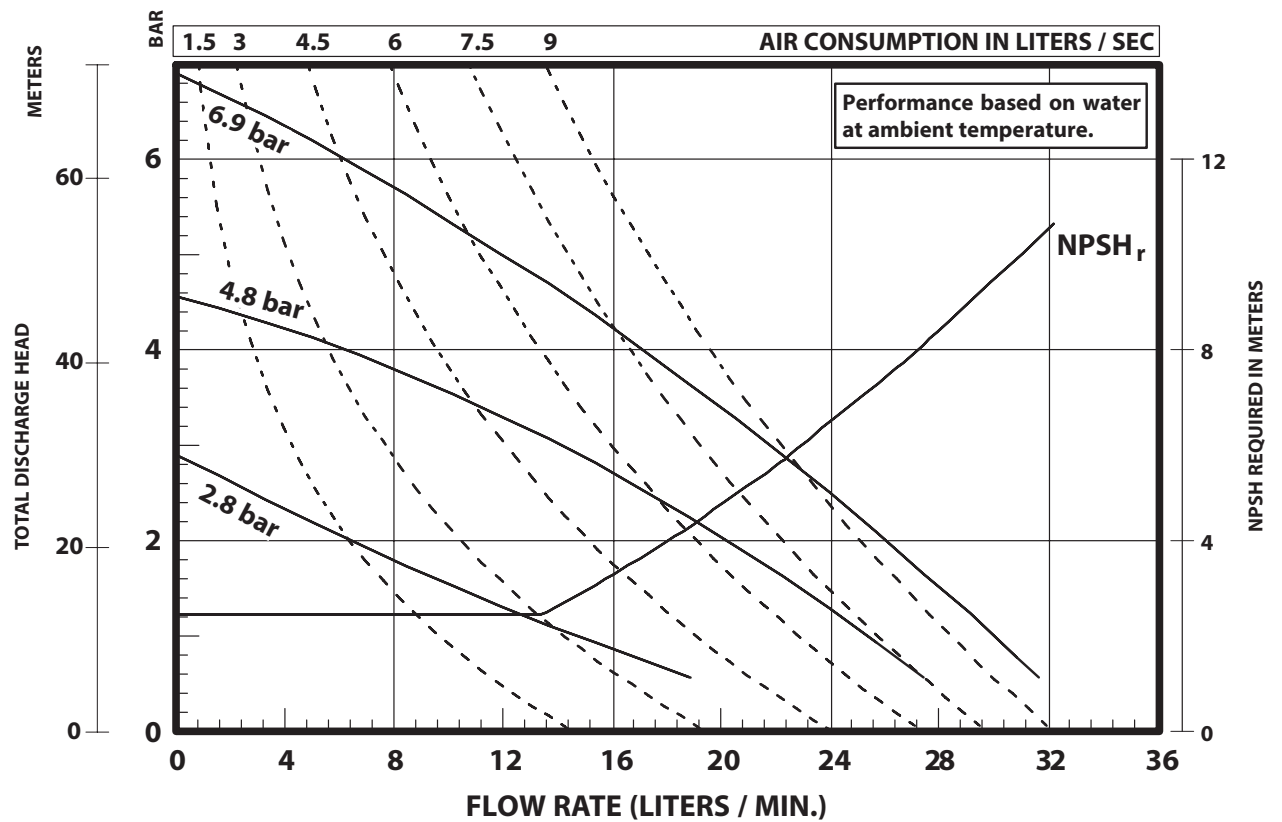
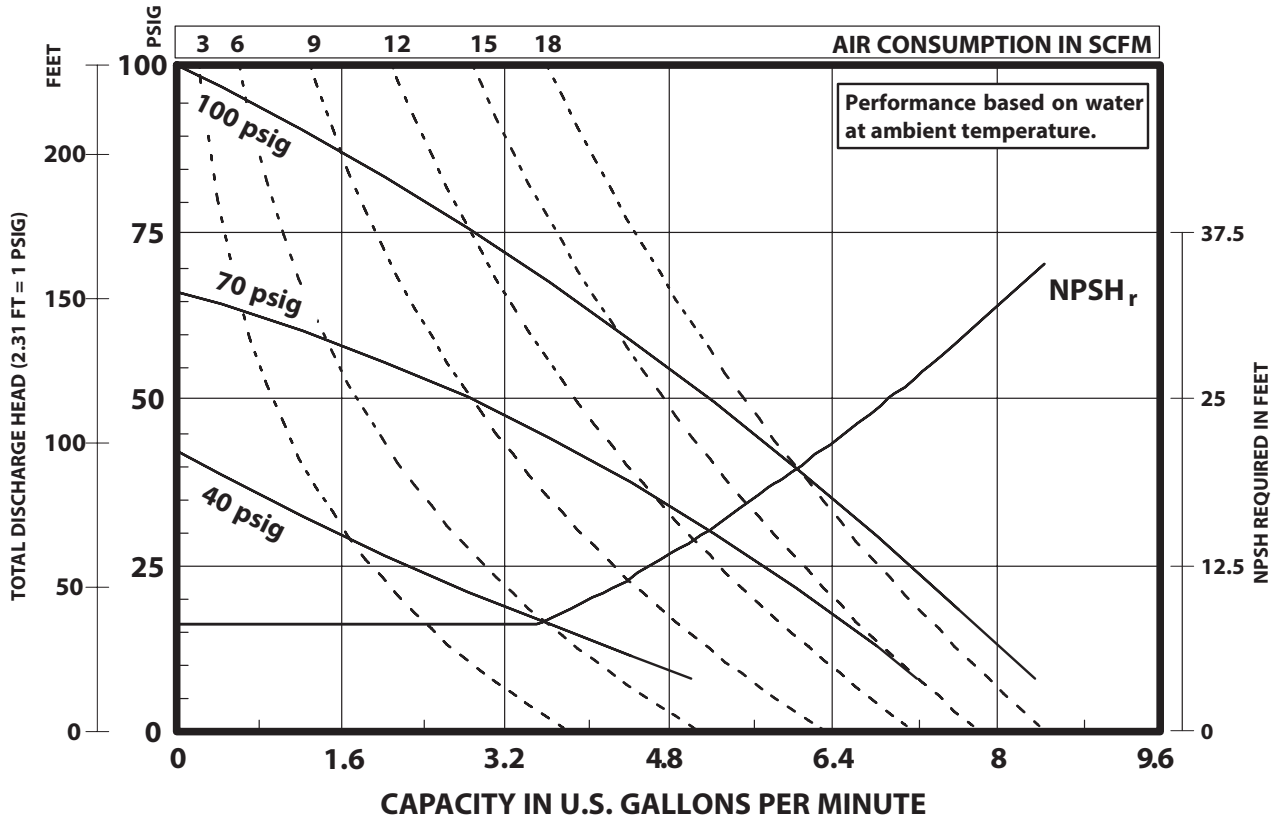
### PERFORMANCE CURVES



**PUMP SUPPLY**  
INCORPORATED

### PERFORMANCE CURVES

#### PE03P-XXS-XXX-XXEX and PE03P-XXS-XXX-XXFX 3/8" NON-METALLIC DIAPHRAGM PUMP



PD03P-XXX-XXX and PE03P-XXX-XXX Series (en)



# PUMP SUPPLY INCORPORATED



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A map showing the outlines of Illinois and Minnesota. A star is placed in the western part of Illinois, and another star is placed in the western part of Minnesota. Below the map is the Pump Supply Incorporated logo, which consists of a blue triangle with 'PS' inside, followed by the text 'PUMP SUPPLY' and 'INCORPORATED' in a spaced-out font.