SALES AND ENGINEERING DATA

RATIO SERIES:	1:1
FLUID PSIG RANGE:	20 - 120

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

RELEASED:	4-13-04
REVISED:	6-17-22
(REV: M)	S-1305

SPECIFICATIONS

CONSTRUCTION

Model Series PD10X-XXX-XXX
PE10X-XXX-XXX
PZ10X-XXX-XXX
Pump Type ..... Metallic, Air Operated, Double Diaphragm
Ratio 1:1
Material Inlet / Outlet
PX10X-AXX-XXX (female) ..... 1 - 11-1/2 NPTF - 2
PX10X-BXX-XXX (female) ..... Rp 1 (1 - 11 BSP Parallel)
PX10X-FXX-XXX ..... 1" ANSI / DIN Flange (Raised Face)
Air Inlet (female) ..... 1/4 - 18 NPT
Air Exhaust (female) ..... 3/4 - 14 NPT
Weight
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-ASX-XXX ..... 38.2 lbs (17.3 kgs)
PX10R-BSX-XXX ..... 38.2 lbs (17.3 kgs)
PX10R-FHX-XXX ..... 45.4 lbs (20.6 kgs)
PX10R-FSX-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
PX10A-XXX-XXX 637395-3
PX10R-XXX-XXX 637395-1
PX10S-XXX-XXX 637395-5
PE10A-XXX-XXX 637395-4
PE10R-XXX-XXX 637395-2
PE10S-XXX-XXX 637395-6
Fluid Section Service Kit 637401-XX

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

PERFORMANCE

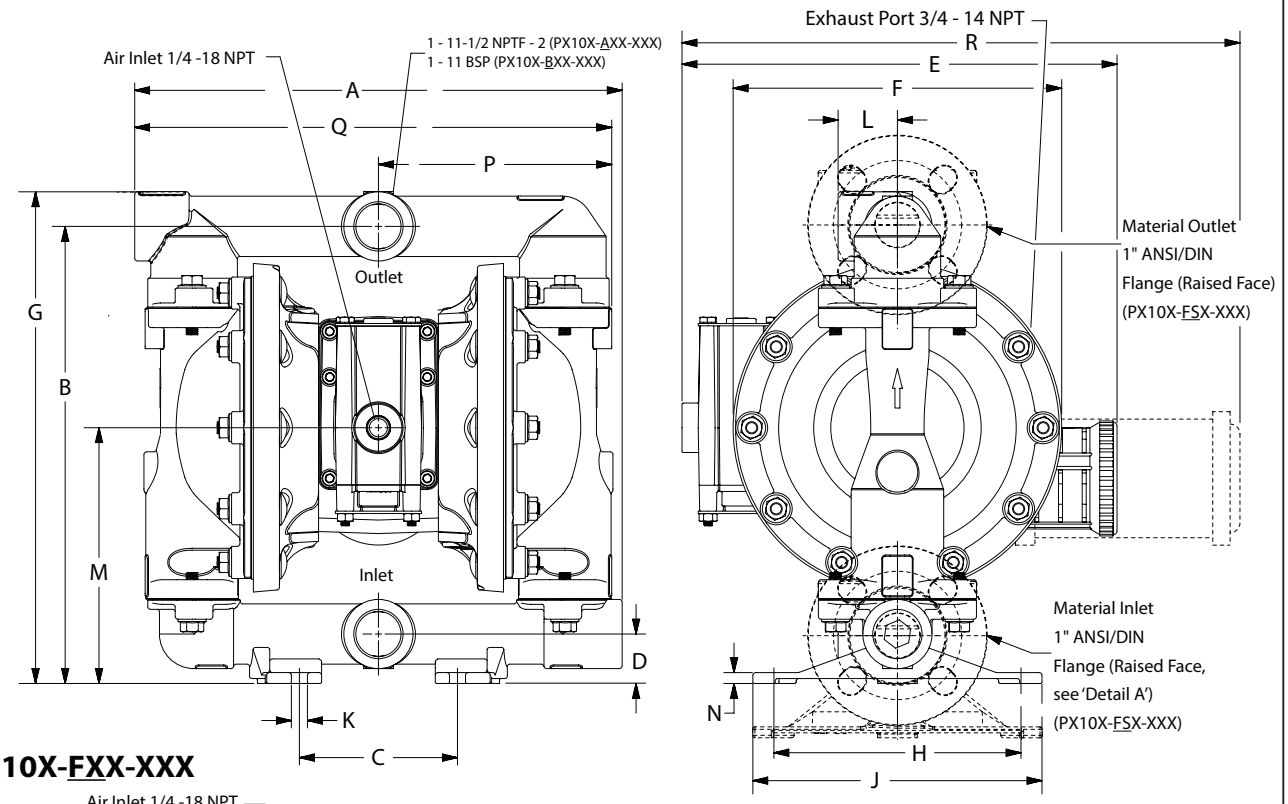
Maximum Air Inlet Pressure ..... 120 psig (8.3 bar)
Maximum Material Inlet Pressure ... 10 psig (0.69 bar)
Maximum Outlet Pressure ..... 120 psig (8.3 bar)
Maximum Flow Rate (flooded inlet) ..... 52.2 gpm (197.6 lpm)
Displacement / Cycle @ 100 psig .... 0.232 gal. (0.88 lit.)
Maximum Particle Size ..... 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)①
① The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LA_{eq}) tomeet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

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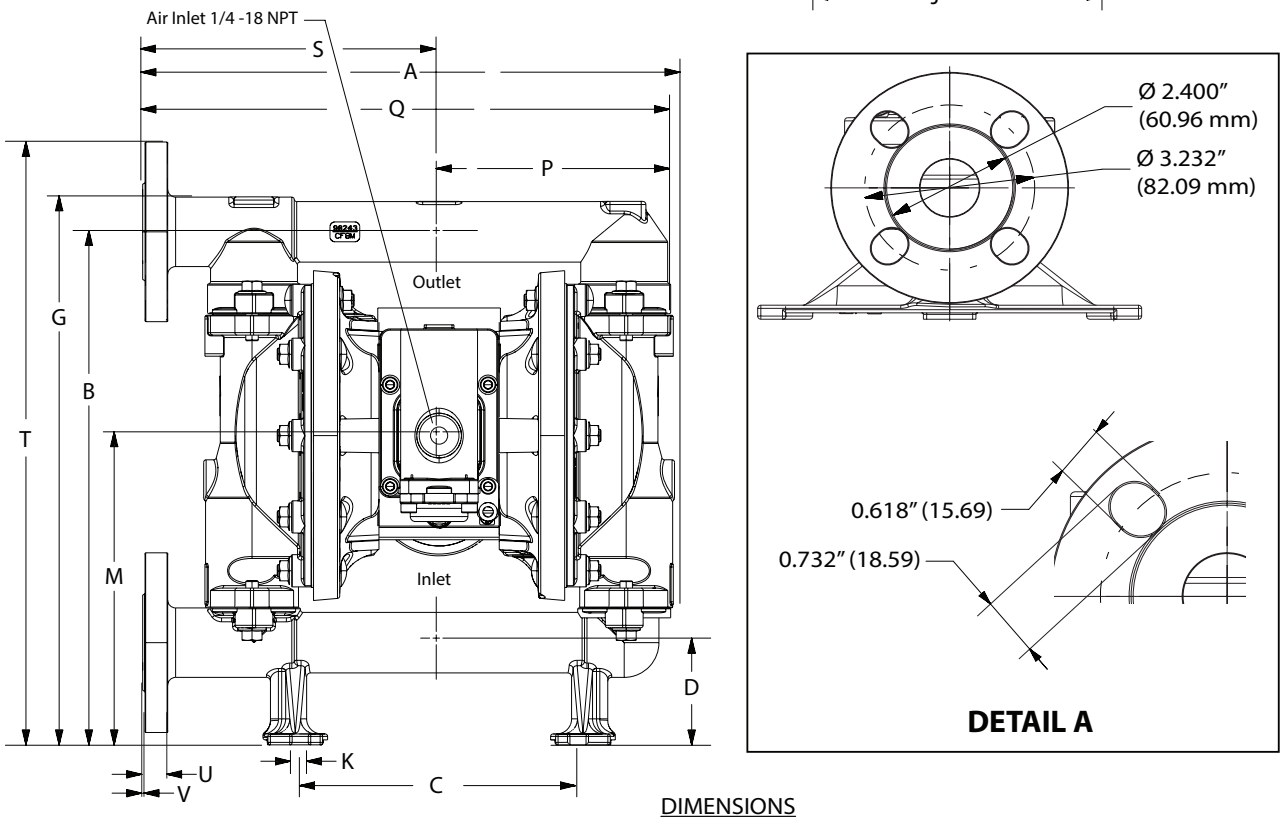
ARO Ingersoll Rand

DIMENSIONAL DATA

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



PX10X-FXX-XXX



DIMENSIONS

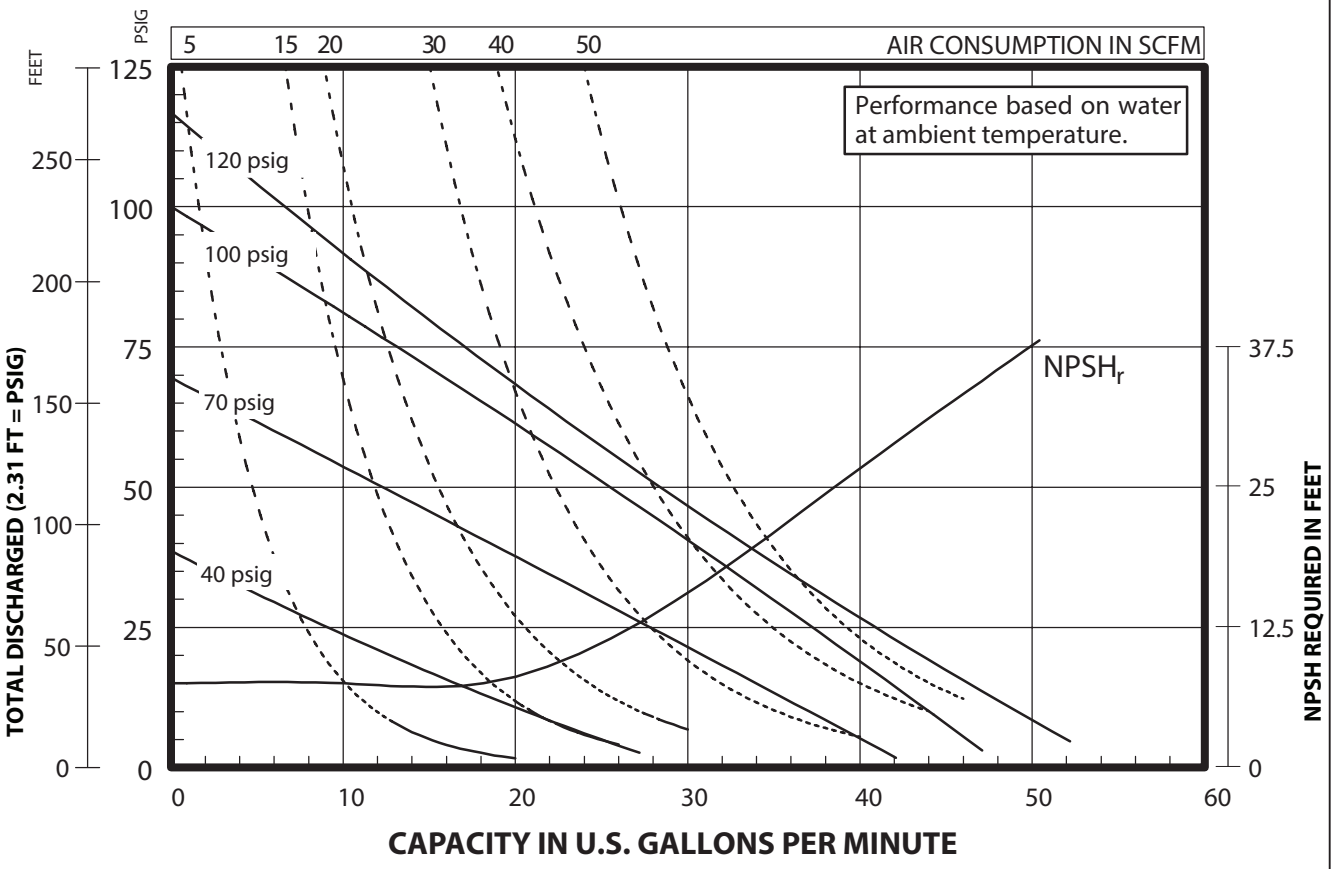
A - 12.34" (313.4 mm)	E - see below	J - 7.31" (185.6 mm)	N - see below		
B - 11.56" (293.6 mm)	F - see below	K - 0.4" (10.1 mm)	P - 5.84" (148.3 mm)		
C - 4" (101.6 mm)	G - 12.43" (315.7 mm)	L - 1.5" (38.1 mm)	Q - 12" (304.8 mm)		
D - 1.25" (31.7 mm)	H - 6.25" (158.7 mm)	M - 6.46" (164.0 mm)	R - see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

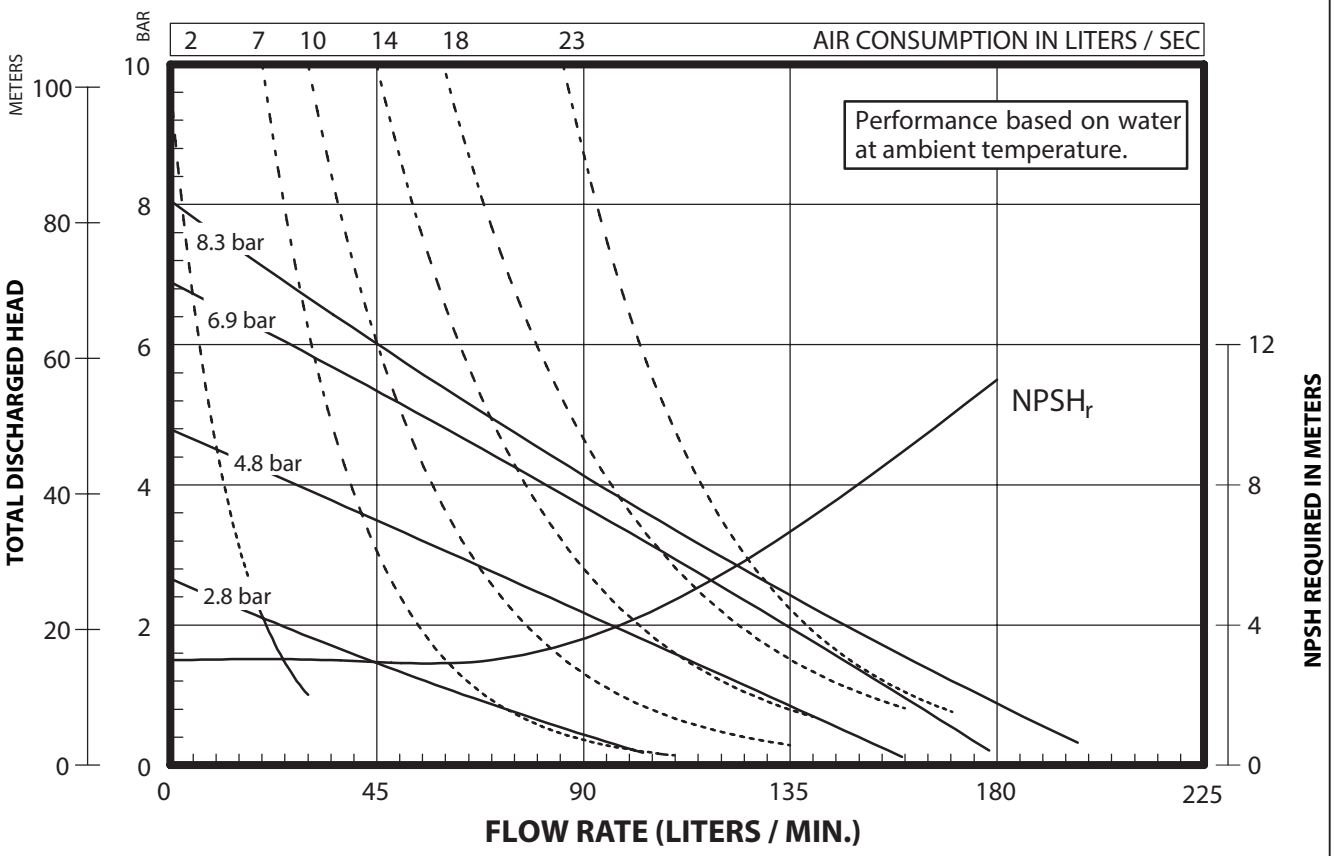
PX10X-FXX-XXX

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

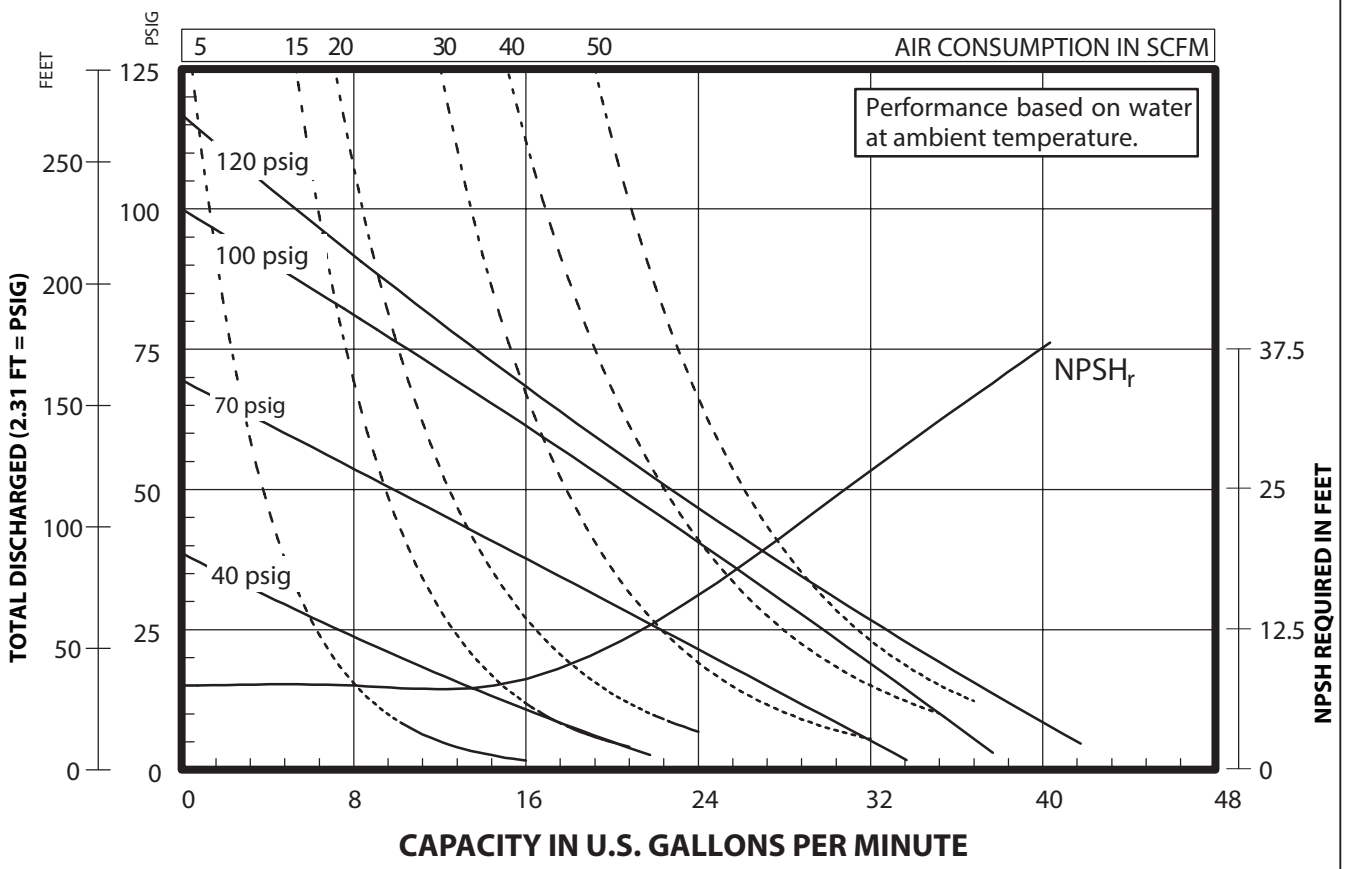


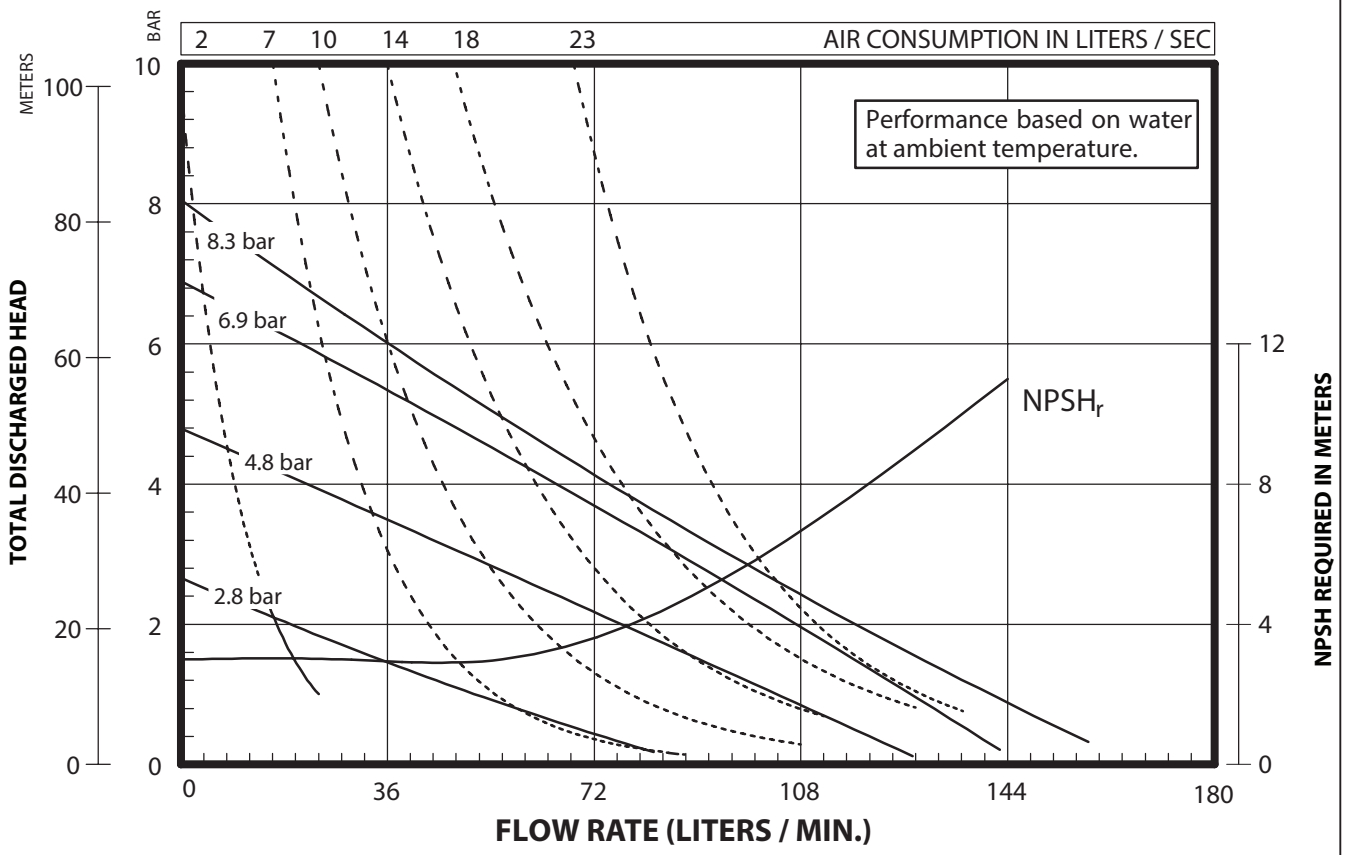


NOTE: Performance tested with 95845 Diaphragm Check Valve.

PERFORMANCE CURVES

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





NOTE: Performance tested with 95845 Diaphragm Check Valve.