

SALES AND ENGINEERING DATA

PD20A-XXX-XXX-B / PD20S-XXX-XXX-B PE20A-XXX-XXX-B () / PE20S-XXX-XXX-B () PZ20A-XXX-XXX-B / PZ20S-XXX-XXX-B 2" METALLIC DIAPHRAGM PUMP

RATIO
SERIES: 1:1

FLUID PSIG
RANGE: 20 - 120

RELEASED: 2-3-05
REVISED: 6-17-22
(REV: G) S-1338

SPECIFICATIONS

CONSTRUCTION

Model Series	PD20A-X-X-B / PD20S-X-X-B PE20A-X-X-B () / PE20S-X-X-B () PZ20A-X-X-B / PZ20S-X-X-B
Pump Type	Metallic, Air Operated, Double Diaphragm
Ratio	1:1
Material Inlet / Outlet (female)	
PX20X- <u>A</u> XX-XXX-B ()	2 - 11-1/2 NPTF - 1
PX20X- <u>B</u> XX-XXX-B ()	Rp 2 (2 - 11 BSP parallel)
PX20X- <u>F</u> XX-XXX-B ()	2" A.N.S.I / DIN Flange
Air Inlet (female)	3/4 - 14 NPTF - 1
Air Exhaust (female)	1-1/2 - 11-1/2 NPT
Weight . PX20A- <u>X</u> AX-XXX-B ()	91.4 lbs (41.5 kgs)
PX20A- <u>X</u> CX-XXX-B ()	147.4 lbs (66.9 kgs)
PX20A- <u>A</u> HX-XXX-B (), -BHX ...	155.0 lbs (70.3 kgs)
PX20A- <u>A</u> SX-XXX-B (), -BSX ...	149.8 lbs (68.0 kgs)
PX20A- <u>F</u> HX-XXX-B (),	169.4 lbs (76.8 kgs)
PX20A- <u>F</u> SX-XXX-B (),	162.0 lbs (73.5 kgs)
(add 28.9 lbs [13.1 kgs] for stainless steel air motor section)	
Air Section Service Kit	637421
Fluid Section Service Kit	637309-XX
Major Air Valve Assembly	637374-X

PERFORMANCE

Air Inlet Pressure Range	20 - 120 psig (1.4 - 8.3 bar)
Maximum Material Inlet Pressure ...	10 psig (0.69 bar)
Fluid Pressure Range	20 - 120 psig (1.4 - 8.3 bar)
Maximum Flow Rate	172 g.p.m. (651 lpm)
Displacement / Cycle @ 100 psig	1.4 gal. (5.3 lit.)
Maximum Particle Size	1/4" dia. (6.4 mm)
Maximum Temperature Limits (diaphragm / ball / seat material)	
E.P.R. / EPDM	-60° to 280° F (-51° to 138° C)
Hytre [®]	-20° to 180° F (-29° to 82° C)
Nitrile	10° to 180° F (-12 to 82° C)
PVDF	10° to 200° F (-12° to 93° 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 ^① ...	85.0 dB(A) ^②
① Tested with 67263 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-PNEUROP S5.1 using four microphone locations.	

ACCESSORIES:

66312 Air Line Connection Kit
67263 Continuous Muffler
94117 Int. Muffler

PX20X-XXX-XXX-B ()

637309 - XX

Diaphragm Material
Ball Material

EXAMPLE: Model #PD20A-AAP-AAA-B
Fluid Section Service Kit is 637309-AA

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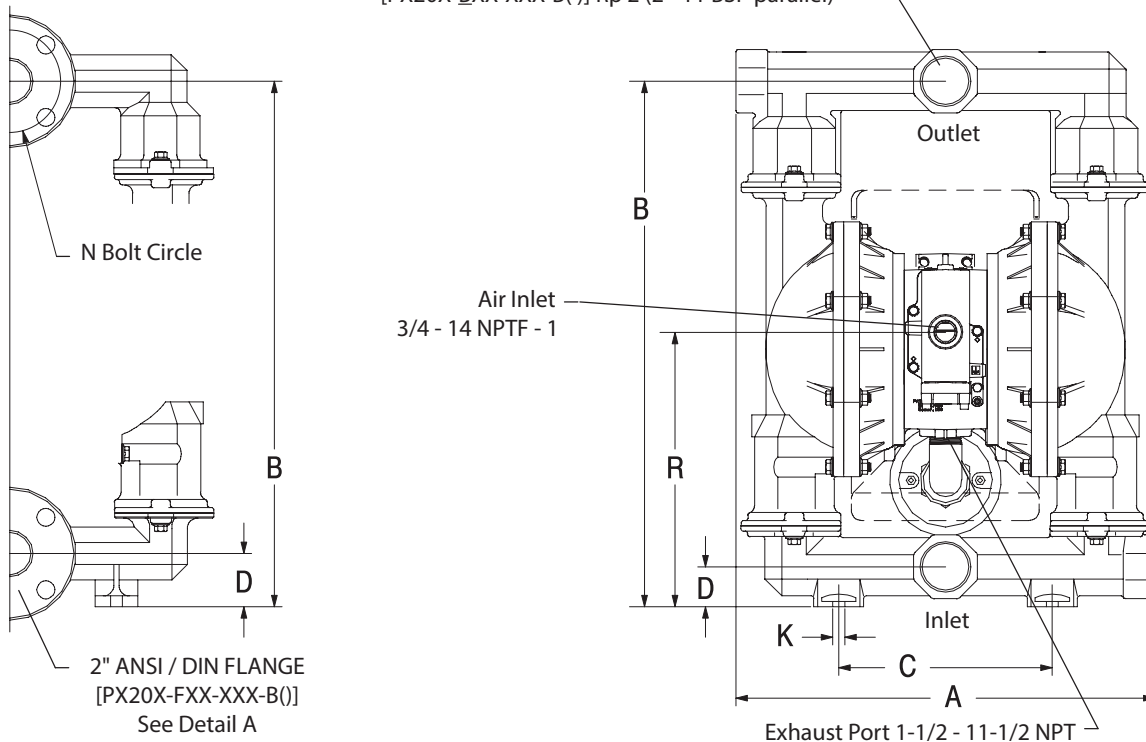
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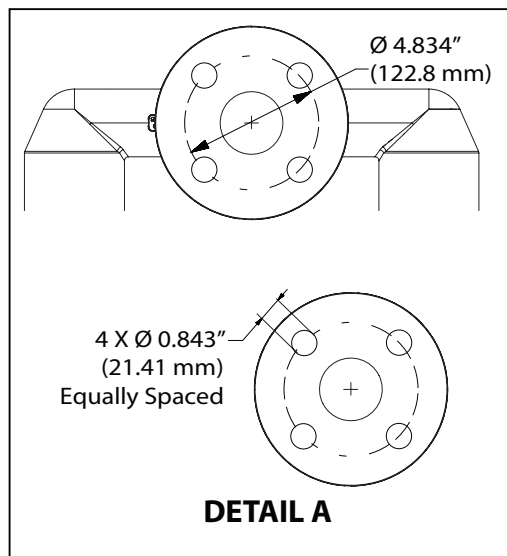
IR Ingersoll Rand[®]

DIMENSIONAL DATA

[PX20X-AXX-XXX-B()] 2 - 11-1/2 NPTF - 1
 [PX20X-BXX-XXX-B()] Rp 2 (2 - 11 BSP parallel)*



Dotted lines show optional
67263 muffler assembly.



DIMENSIONS

A - see below	E - 16.18\" (411.2 mm)	J - 10.06\" (255.6 mm)	N - 4.834\" (122.8 mm)
B - 24.75\" (628.7 mm)	F - 12\" (304.8 mm)	K - 0.56\" (14.3 mm)	P - 21.62\" (548 mm)
C - 10.06\" (255.6 mm)	G - 26.25\" (666.8 mm)	L - see below	Q - 27.87\" (708.0 mm)
D - see below	H - 9.06\" (230.2 mm)	M - 0.62\" (15.9 mm)	R - see below

	"A"	"D"	"L"	"R"
PX20X-XAX-XXX-B()	19.75\" (501.7 mm)	1.87\" (47.6 mm)	2\" (50.8 mm)	12.93\" (328.6 mm)
PX20X-XCX-XXX-B()	19.75\" (501.7 mm)	1.87\" (47.6 mm)	2\" (50.8 mm)	12.93\" (328.6 mm)
PX20X-AHX-XXX-B(), -BHx	19.25\" (488.7 mm)	2.5\" (63.5 mm)	2.09\" (53.0 mm)	13.56\" (344.5 mm)
PX20X-ASX-XXX-B(), -BSx	19.37\" (492.1 mm)	2.5\" (63.5 mm)	2.09\" (53.0 mm)	13.56\" (344.5 mm)
PX20X-FHX-XXX-B()	19.25\" (488.7 mm)	2.5\" (63.5 mm)	3.25\" (82.6 mm)	13.56\" (344.5 mm)
PX20X-FSX-XXX-B()	19.37\" (492.1 mm)	2.5\" (63.5 mm)	3.25\" (82.6 mm)	13.56\" (344.5 mm)

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

* Side Discharge Ports are not available on PX20X-XSX-X-B Models.

PERFORMANCE CURVES

PD20X-XXX-XXX-B / PE20X-XXX-XXX-B() / PZ20X-XXX-XXX-B 2" METALLIC DIAPHRAGM PUMP

