2″ Metallic Models

EXP SERIES PUMPS

ARO® EXP 2″ metallic pumps achieve flow rates of up to 172 GPM (651 LPM) and offer a wide array of material and porting configurations. These pumps are often used for transfer, filling, recirculation and batching in ceramic, paint, oil and gas, chemical and petrochemical markets.

UPGRADE
PUMP FOR REMOTE ACTUATION CAPABILITY

Ratio:	1:1
Maximum GPM (LPM):	172 (651)
Displacement per cycle: @ 100 psi Gallons (Liters)	1.4 (5.3)
Air Inlet (Female):	3/4 - 14 N.P.T.F.-1
Fluid Inlet/Outlet (Female):	PX20X-AXX-XXX-B( ) 2 - 11-1/2 N.P.T.F.-1 PX20X-BXX-XXX-B( ) Rp 2 (2 - 11 BSP parallel) PX20X-FXX-XXX-B( ) 2″ A.N.S.I./DIN Flange
Max. operating pressure psi (bar):	120 (8.3)
Suspended solids max. dia. in. (mm):	1/4″ (6.4)
Maximum dry suction lift ft (m):	14 (4.2)
Sound Level:	70 PSI 50 Cycles/Min 85.0 db(A)
Muffler Included:	67389
Weight lbs (kg):	AL-Aluminum, CI-Cast Iron, H-Hastelloy, SS-Stainless Steel



PD20A

Air Motor	Connection	Wetted	Pump Wgt
AL	Thread	AL	91.4 (41.5)
AL	Thread	CI	147.4 (66.9)
AL	Thread	H	155 (70.3)
AL	Thread	SS	149.8 (68)
AL	Flange	H	169.4 (76.8)
AL	Flange	SS	162.2 (73.6)

PD20R

Air Motor	Connection	Wetted	Pump Wgt
Poly	Thread	CI	165 (74.8)
Poly	Thread	H	154 (69.9)
Poly	Thread	SS	154 (69.9)
Poly	Flange	H	153.2 (69.5)
Poly	Flange	SS	146 (66.2)

PD20S

Air Motor	Connection	Wetted	Pump Wgt
SS	Thread	AL	120.3 (54.6)
SS	Thread	CI	176.3 (80)
SS	Thread	H	183.9 (83.4)
SS	Thread	SS	178.7 (81.1)
SS	Flange	H	198.3 (89.9)
SS	Flange	SS	191.1 (86.7)

Ordering

Position	1	2		3	4	5		6	7	8		9	10	11
Example:	PX20	X	-	X	X	X	-	X	X	X	-	B	X	X

Position 1 Model Series	Position 2 Center Section	Position 3 Connections	Position 4 Wetted Parts	Position 5 Hardware	Position 6 Seat Material	Position 7 Ball Material	Position 8 Diaphragm Material	Position 9
PD20- Standard Pump PE20 - Electronic Interface Accessible Pump	A - Aluminum* R - Poly-propylene S - Stainless Steel*	A - NPTF Thread B - BSP Thread F† - 2" ANSI/DIN Flange Center † Stainless Steel Pumps Only	A - Aluminum* C - Cast Iron H - Hastelloy-C* S - Stainless Steel*	P - Plated Steel S - SS	A - Santoprene® C - Hytrel® E - Carbon Steel F - Aluminum G - Nitrile H - 440 SS K - Kynar/PVDF L - Hastelloy-C S - 316 SS	A - Santoprene® C - Hytrel® G - Nitrile S - 316 SS T - PTFE V - Viton®	A - Santoprene® C - Hytrel® G - Buna- N L - Long-Life PTFE M - Med. Grade Santoprene® T - PTFE/ Santoprene® V - Viton®	Revision Level **Position 10 & 11 Specialty Code** Fluid control options for pump with electronic interface (PE20 model). See complete description on page 39

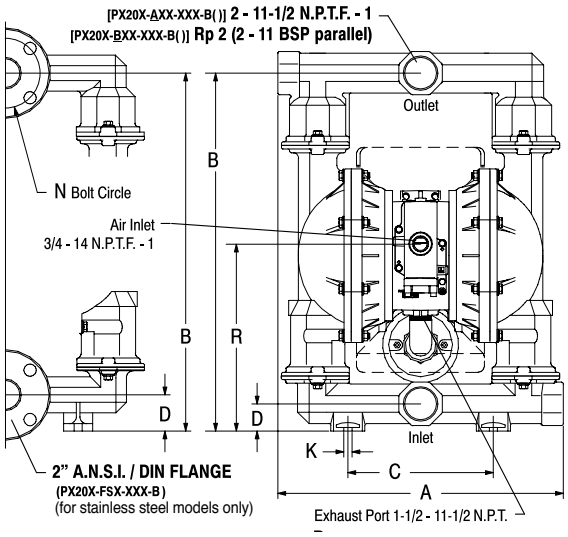
* Acceptable for use in hazardous locations. - NEC / CEC: Class I&II, Div 1&2 , Group A-D
- ATEX: Zone 1&2, 21&22

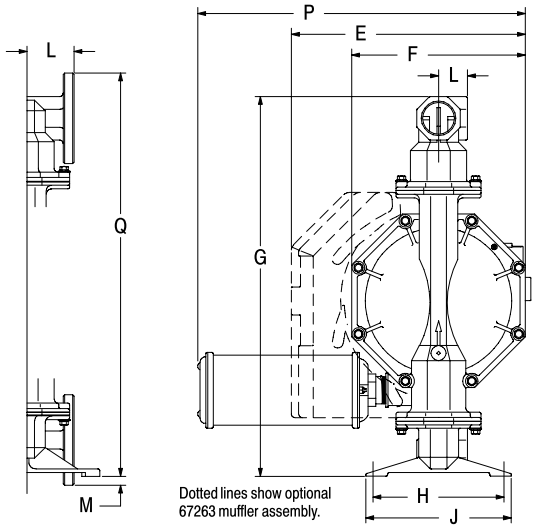
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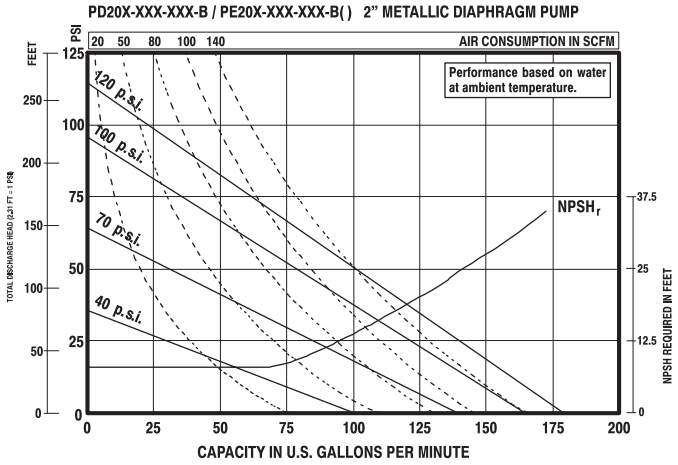
Accessories

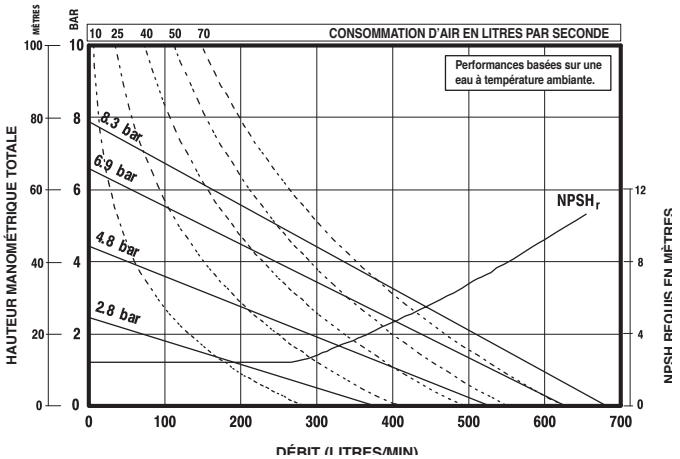
Air Line Connection Kit | 66109
(Piggyback Filter/Regulator with gauge, pipe nipple and 5-foot air hose)
Diaphragm Failure Detection | 67237 (PE20X pump model is required)
Continuous-Duty Muffler | 67263
Muffler features large expansion chamber, permitting cold exhaust air to exit pump
Cycle Counter Kit | 66350 for PD20R-X and PD20Y-X, 67350-1, (PE20X pump model is required)
Service Repair Kits | 637369 (air motor for PX20R and PX20Y), 637421 (air motor for PX20A and PX20S), 637309-XXX (fluid section with seats), 637374-X (major air valve assembly)

2" Metallic Dimensions and Flow Charts









DIMENSIONS

A	see below	G	26-1/4" (666.8 mm)	M	5/8" (15.9 mm)
B	24-3/4" (628.7 mm)	H	9-1/16" (230.2 mm)	N	4.834" (122.8 mm)
C	10-1/16" (255.6 mm)	J	10-1/16" (255.6 mm)	P	21-5/8" (548 mm)
D	see below	K	9/16" (14.3 mm)	Q	27-7/8" (708.0 mm)
E	16-3/16" (411.2 mm)	L	see below	R	see below
F	12" (304.8 mm)				

	"A"	"D"	"L"	"R"
PX20X-XAX-XXX-B( )	19-3/4" (501.4 mm)	1-7/8" (47.6 mm)	2" (50.8 mm)	12-15/16" (328.6 mm)
PX20X-XCX-XXX-B( )	19-3/4" (501.4 mm)	1-7/8" (47.6 mm)	2" (50.8 mm)	12-15/16" (328.6 mm)
PX20X-AHX-XXX-B( ), -BHX	19-1/4" (488.7 mm)	2-1/2" (63.5 mm)	2-3/32" (53.0 mm)	13-9/16" (344.5 mm)
PX20X-ASX-XXX-B( ), -BSX	19-1/4" (488.7 mm)	2-1/2" (63.5 mm)	2-3/32" (53.0 mm)	13-9/16" (344.5 mm)
PX20X-FHX-XXX-B( ), -FSX	19-1/4" (488.7 mm)	2-1/2" (63.5 mm)	3-1/4" (82.6 mm)	13-9/16" (344.5 mm)

Ordering Position 10

Specialty Code 1 (Blank if no Specialty Code)

A - Solenoid 120VAC
B - Solenoid 12VDC
C - Solenoid 240VAC
D - Solenoid 24VDC
E - 12vDC NEC/CEC*
F - 24vDC NEC/CEC*
G - Solenoid 12VDC ATEX/IECex*
H - Solenoid 24VDC ATEX/IECex*
J - 120VAC NEC/CEC*
K - Solenoid 220VAC ATEX/IECex*
N - Solenoid with no coil
0 - Standard Valve Block (No Solenoid)
P - Ported Motor (No major valve provided)

Ordering Position 11

Specialty Code 2 (Blank if no Specialty Code)

E - End of stroke feedback + Leak Detection
F - End of stroke feedback
G - End of Stroke ATEX/IECex*
H - End of Stroke/Leak Detection ATEX/IECex*
L - Leak Detection
M - Leak Detection ATEX/IECex/NEC/CEC*
O - No Option
R - End of Stroke Feedback NEC / CEC*
T - End of Stroke Feedback + Leak Detection NEC / CEC*

* Acceptable for use in hazardous locations. - NEC / CEC: Class I&II, Div 1&2 , Group A-D
- ATEX: Zone 1&2, 21&22