

2" Metallic Flap Valve Models

SPECIALTY PUMP

ARO's pneumatic flap valve diaphragm pumps provide effective flow rates up to 172 gpm (651 lpm). These pumps are designed to handle materials that are stringy, fibrous, large solids (suspended or non-suspended), abrasive, slurries and other applications less suited for ball check style pumps. Flap valve pumps are useful for feeding filter presses, waste treatment, dewatering, filled material transfer and a variety of other demanding applications.

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):	PF20X-AXX-XXX-B 2 - 11-1/2 N.P.T.F.-1 PF20X-BXX-XXX-B Rp 2 (2 - 11 BSP parallel)
Max. operating pressure psi (bar):	120 (8.3)
Suspended solids max. dia. in. (mm):	2" (51) Semi-solid
Maximum dry suction lift ft (m):	14 (4.2)
Weight lbs (kg):	PF20A-XAX-SXX-B 97.3 (44.2) PF20A-XCX-SXX-B 166.2 (75.4) PF20A-ASX-SXX-B 166 (75.3) PF20A-BSX-SXX-B 166 (75.3) PF20A-FSX-SXX-B 177.1 (80.3) Add 28.9 lbs (13.1kg) for stainless steel air motor PF20R-XCX-SXX-B 178.7 (81.1) PF20R-XSX- SXX- B 180.6 81.9
Sound Level:	70 PSI 60 Cycles / Min 85.0 db(A)
Muffler:	94810 (optional 94117)



Ordering

Position	1	2		3	4	5		6	7	8		9
Example:	PF20	X	-	X	X	X	-	S	X	X	-	B

Position 1 Model Series	Position 2 Center Section	Position 3 Connections	Position 4 Wetted Parts	Position 5 Hardware	Position 6 Seat Material	Position 7 Flap Material	Position 8 Diaphragm Material	Position 9
PF20 - Standard Pump	A - Aluminum* R - Polypropylene w/SS Air Caps S - Stainless Steel* Y - Polypropylene w/CI Air Caps	A - NPTF Thread B - BSP Thread F - 2" ANSI/DIN Flange	A [†] - Aluminum* C - Cast Iron S - Stainless Steel [†] Not available with PD20R or PD20Y option	P - Plated Steel S - Stainless Steel	S - Stainless Steel	A - EPR G - Nitrile U - Polyurethane V - Viton [®]	A - Santoprene [®] G - Buna- N T - PTFE/ Santoprene [®] V - Viton [®]	Revision Level

* Acceptable for use in hazardous locations.

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Accessories

Service Repair Kits | 637421 (air motor)
637310-XX (fluid section)