

AT50 (2")

Sales & Engineering Data Sheet

Metallic - Ductile Iron, Aluminium, Cast 316 Stainless Steel

Specifications

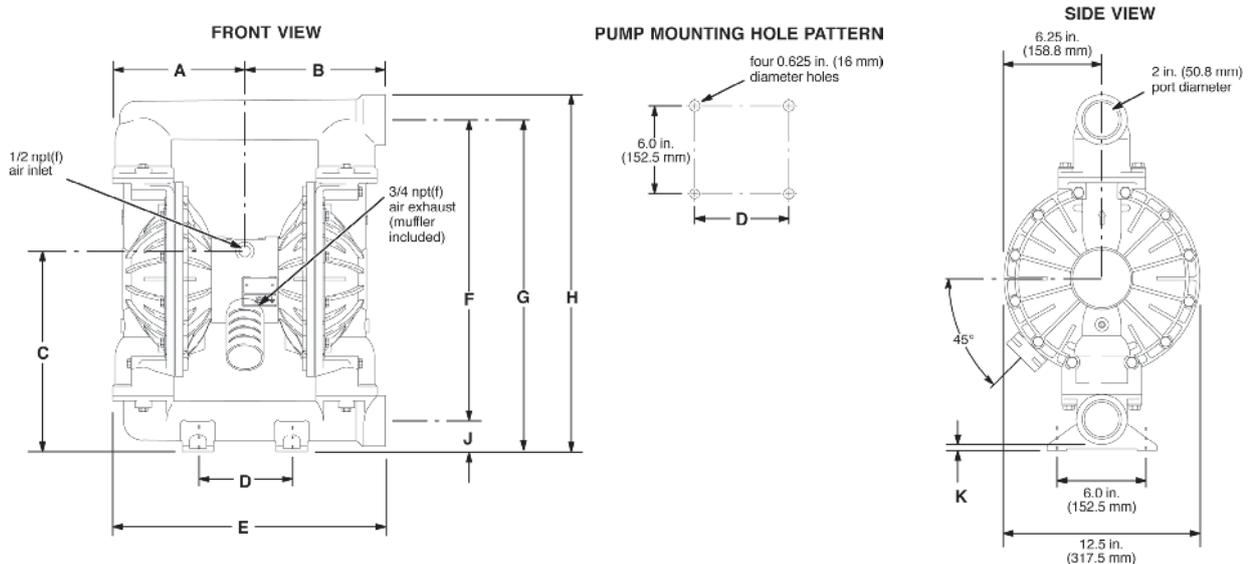
Maximum fluid working pressure	120 psi (0.8 MPa, 8 bar)
Air pressure operating range	20 to 120 psi (0.14 to 0.8 MPa, 1.4 to 8 bar,)
Maximum air consumption	175 scfm
Air consumption at 70 psi (0.48 MPa, 4.8 bar)/60 gpm	60 scfm (see chart)
Maximum free-flow delivery	150 gpm (568 l/min)
Maximum pump speed	145 cpm
Gallons (Liters) per cycle	1.03 (3.90)
Maximum suction lift	18 ft (5.48 m) wet or dry
Maximum size pumpable solids	1/4 in. (6.3 mm)
* Maximum noise level at 100 psi (0.7 MPa, 7 bar) 50 cpm	90 dBa
* Sound power level	103 dBa
* Noise level at 70 psi (0.48 MPa, 4.8 bar) and 50 cpm	85 dBa
Maximum operating temperature	150°F (65.5°C)
	200°F (93.3°C) for models with PTFE diaphragms

Fluid inlet size.....	2" npt(f)
Fluid outlet size	2" npt(f)
Non-wetted external parts	aluminum, 302 and 316 stainless steel, polyester (labels)
Weight	
Aluminum pumps	58 lb (26.3 kg)
Stainless steel pumps with aluminum center section	111 lb (50.3 kg)
Ductile Iron pumps with stainless steel center section	130 lb (59.0 kg)
Stainless Steel pumps with stainless steel center section	134 lb (61.0 kg)



 **AT50 PUMP**

Dimensional Drawing



Dimensions

Dimension	Aluminum Pumps	Aluminum Extension Pumps*	Ductile Iron Pumps	Stainless Steel Pumps
A	8.39 in. (213.1 mm)	8.39 in. (213.1 mm)	8.39 in. (213.1 mm)	8.73 in. (222.7 mm)
B	9.06 in. (230.1 mm)	9.06 in. (230.1 mm)	9.06 in. (230.1 mm)	9.41 in. (239.0 mm)
C	12.3 in. (312.4 mm)	12.92 in. (328.2mm)	12.3 in. (312.4 mm)	15.5 in. (393.7 mm)
D	6.0 in. (152.4 mm)	6.0 in. (152.4 mm)	6.0 in. (152.4 mm)	6.5 in. (165.1 mm)
E	17.45 in. (443.2 mm)	17.45 in. (443.2 mm)	17.45 in. (443.2 mm)	18.07 in. (458.9 mm)
F	19.9 in. (505.5 mm)	22.88 in. (579.1 mm)	19.37 in. (492.0 mm)	22.27 in. (565.7 mm)
G	21.9 in. (556.3 mm)	24.88 in. (631.9 mm)	21.37 in. (542.8 mm)	24.64 in. (625.8 mm)
H	23.53 in. (597.7 mm)	26.51 in. (673.3 mm)	23.0 in. (584.2 mm)	26.3 in. (668.0 mm)
J	2.0 in. (50.8 mm)	20 in. (50.8 mm)	2.0 in. (50.8 mm)	2.37 in. (60.2 mm)
K	0.38 in. (9.7 mm)	0.38 in. (9.7 mm)	0.38 in. (9.7 mm)	0.95 in. (24.1 mm)

*Aluminum extended pump matches the inlet to outlet dimensions of Wilden and Aro aluminum pumps. This will help for ease of installation during upgrades.

Performance Charts

Test Conditions: Pump tested in water with inlet submerged.

Example of Finding Pump Air Consumption and Air Pressure at a Specific Fluid Delivery and Discharge Head:

To supply 60 gpm (227 liters) fluid flow (horizontal scale) at 40 psi (0.28 MPa, 2.8 bar) discharge head pressure (vertical scale) requires approximately 50 scfm (1.68 m³/min) air consumption at 70 psi (0.49 MPa, 4.9 bar) inlet air pressure.

