

AA50 (2")

Sales & Engineering Data Sheet

Non-Metallic Polypropylene & PVDF

Specifications

Maximum fluid working pressure	125 psi (0.86 MPa, 8.6 bar)
Air pressure operating range	20 to 125 psi (1.4 to 8.6 bar, 0.14 to 0.86 MPa)
Maximum air consumption	140 scfm
Air consumption at 70 psi/100 gpm	70 scfm (see chart)
Maximum free flow delivery	200 gpm (757 l/min)
Maximum pump speed	125 cpm
Gallons (litres) per cycle	1.6 (6.1)
Maximum suction lift	31 ft (9.4 m) wet / dry 16 ft (4.9 m)
Maximum size pumpable solids	1/4 in. (6.3 mm)
*Maximum noise level at 100 psi, full flow	94.7 dB
*Sound power level	101.8 (Max) dBa
* Noise level at 70psi, 50 cycles/min	87.3 dBa
Maximum operating temperature	150°F (65.5°C) PP / 225°F (107°C) PV
Fluid inlet size	2 in. raised face flange
Fluid outlet size	2 in. raised face flange
Non-wetted external parts	polypropylene and PVDF, polyester (labels)
Weight	
Polypropylene Pumps:	with polypropylene center section 80lb (36.3kg)
PVDF Pumps:	with polypropylene center section 106lb (48.1kg)



AA50 PUMP

Material Options

Choose from a wide selection of materials to handle numerous applications, including corrosive and abrasive fluid transfer.

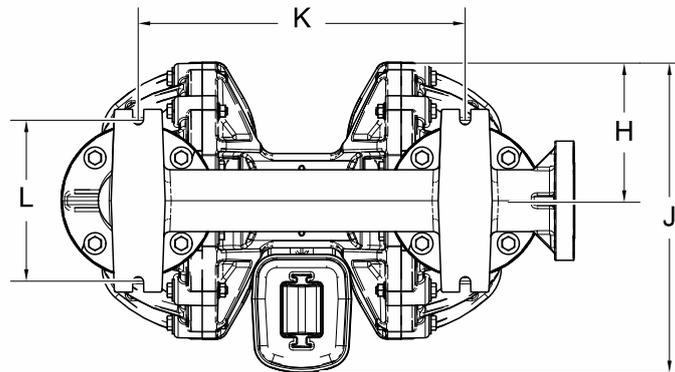
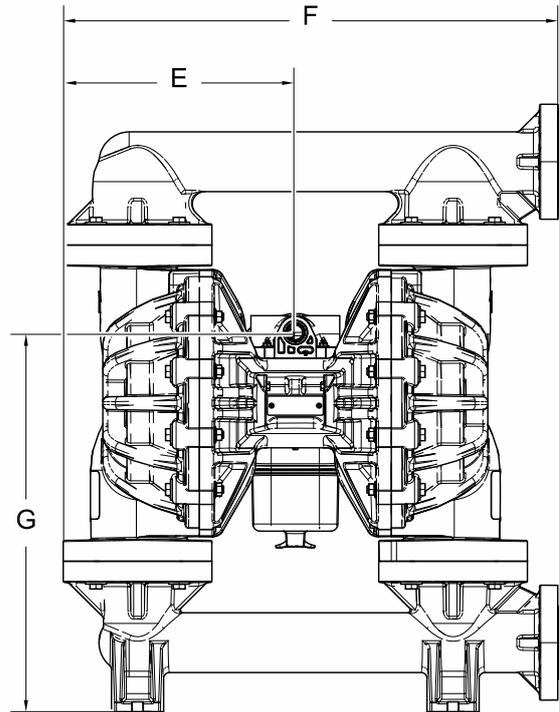
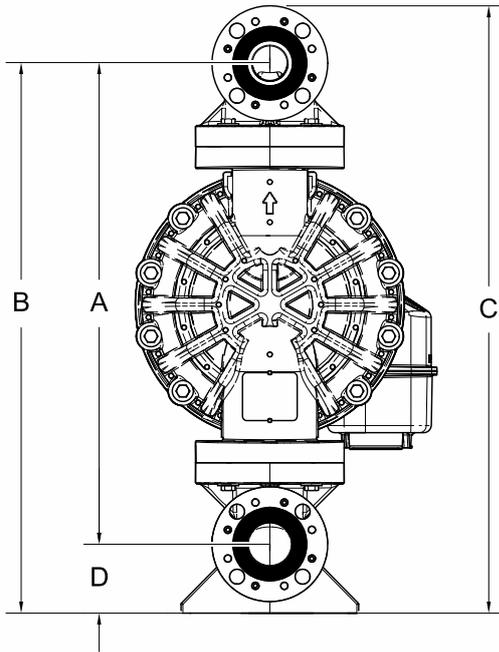
Key Fluids

- Paints, coatings, inks & dyes
- Chemicals / Acids
- Corrosive and abrasive fluids
- Lubricants
- Ceramic glazes
- Sludge, slurry and waste fluid



Dimensional Drawing

End Flange Models, Polypropylene & PVDF

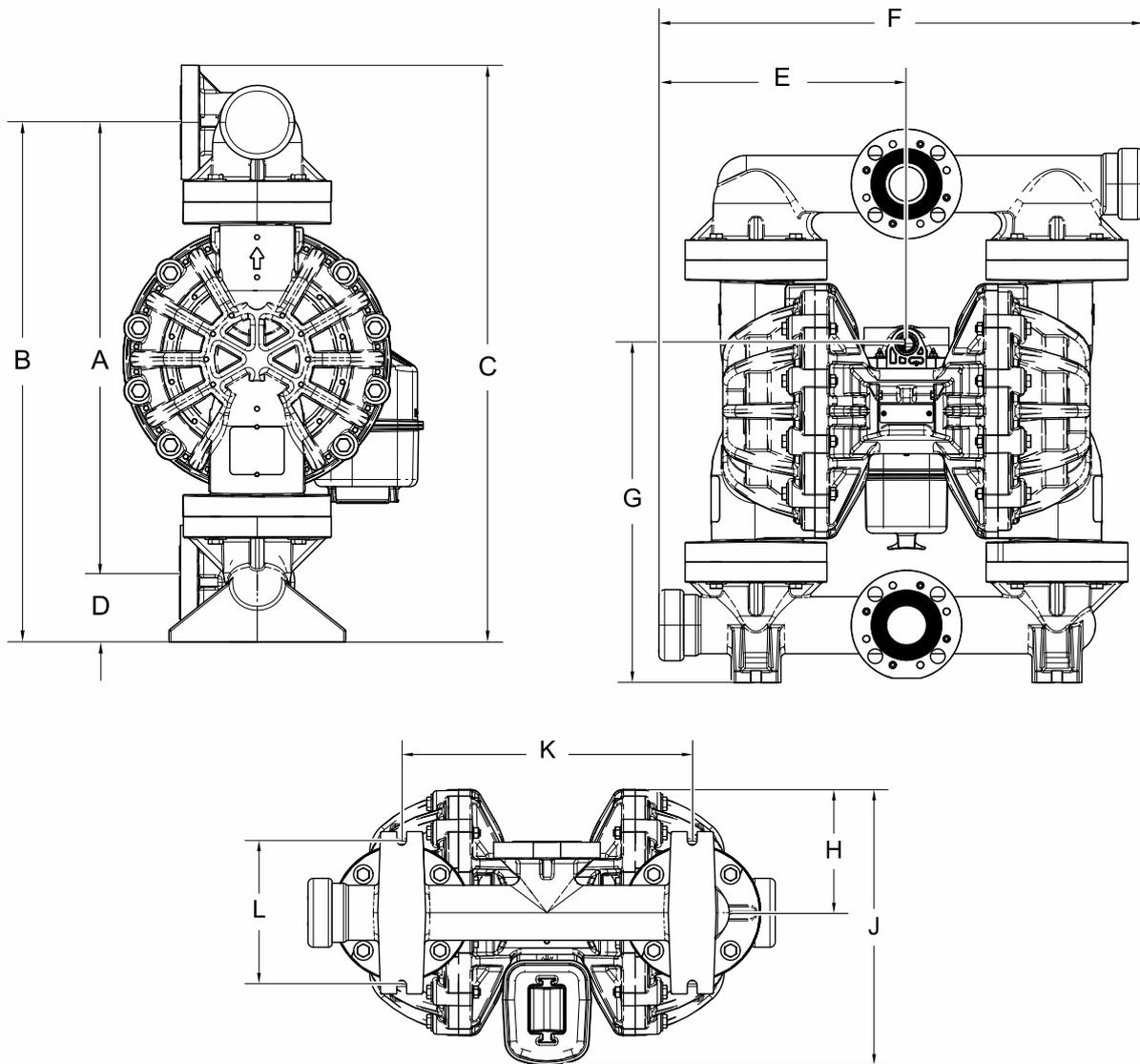


	Polypropylene		PVDF	
A	25.1 in.	63.8 cm	25.2 in.	64.0 cm
B	28.7 in.	72.9 cm	28.8 in.	73.2 cm
C	31.7 in.	80.5 cm	31.8 in.	80.8 cm
D	3.6 in.	9.1 cm	3.6 in.	9.1 cm

	Polypropylene		PVDF	
G	19.8 in.	50.3 cm	19.8 in.	50.3 cm
H	7.0 in.	17.8 cm	7.0 in.	17.8 cm
J	13.9 in.	35.3 cm	13.9 in.	35.3 cm
K	16.3 in.	41.4 cm	16.3 in.	41.4 cm
L	8.2 in.	20.8 cm	8.2 in.	20.8 cm

Dimensional Drawing

Center Flange Models, Polypropylene Only



	Polypropylene	
A	24.1 in.	61.2 cm
B	27.2 in.	69.1 cm
C	30.3 in.	77.0 cm
D	3.1 in.	7.9 cm
E	12.8 in.	32.5 cm
F	26.3 in.	66.8 cm

	Polypropylene	
G	18.5 in.	47.0 cm
H	7.0 in.	17.8 cm
J	13.9 in.	35.3 cm
K	16.3 in.	41.4 cm
L	8.2 in.	20.8 cm

Performance Chart Ashton AA50

Test Conditions: Pump tested in water with inlet submerged.

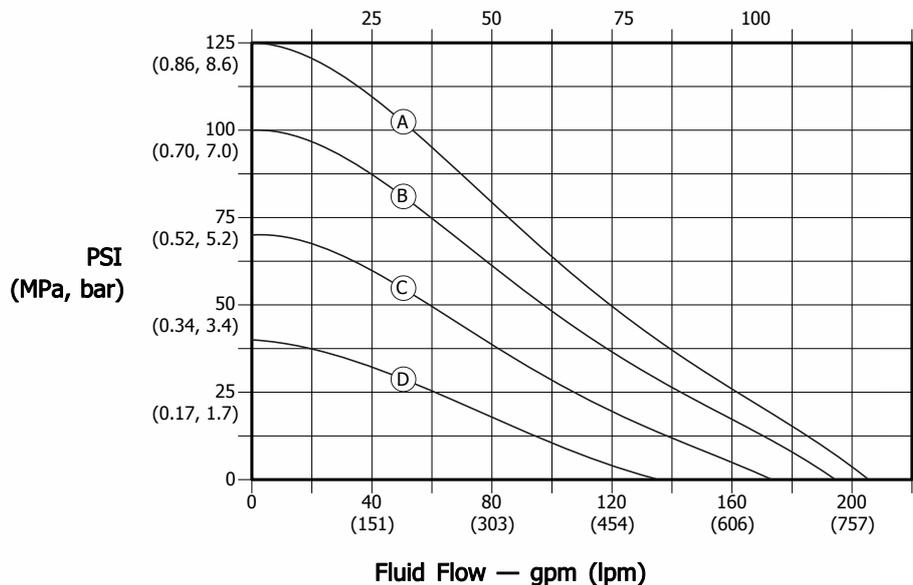
Single Part Diaphragms

Operating Air Pressure

- A**
125 psi (0.86 MPa, 8.6 bar)
- B**
100 psi (0.7 MPa, 7.0 bar)
- C**
70 psi (0.48 MPa, 4.8 bar)
- D**
40 psi (0.28 MPa, 2.8 bar)

Fluid Pressure

Approximate Cycles per Minute

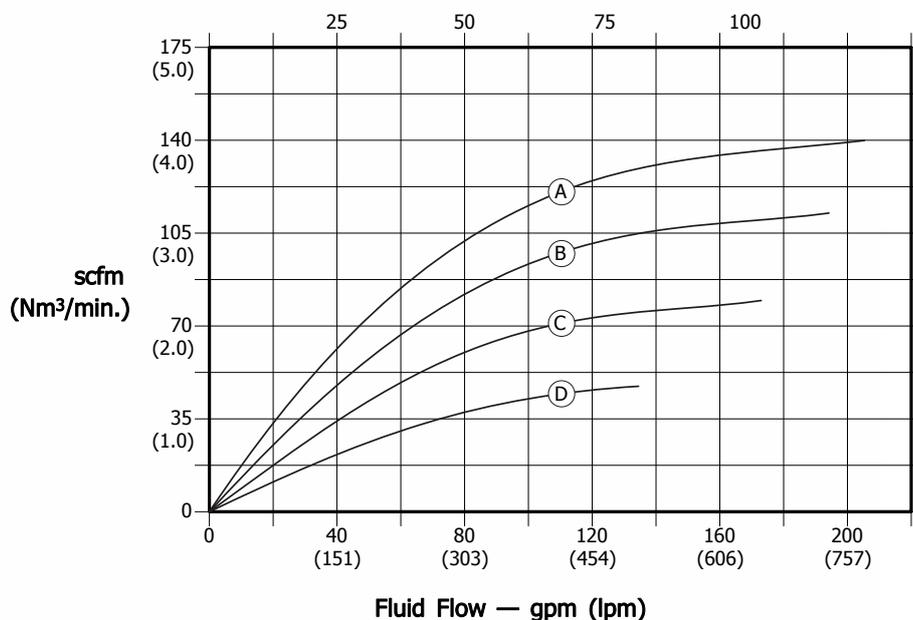


How to Read the Charts

1. Locate fluid flow rate along bottom of chart.
2. Follow vertical line up to intersection with selected operating air pressure curve.
3. Follow left to scale to read **fluid outlet pressure** (top chart) or **air consumption** (bottom chart)

Air Consumption

Approximate Cycles per Minute



Performance Chart Ashton AA50

Test Conditions: Pump tested in water with inlet submerged.

Over-Moulded Diaphragms

Operating Air Pressure

A

125 psi (0.86 MPa, 8.6 bar)

B

100 psi (0.7 MPa, 7.0 bar)

C

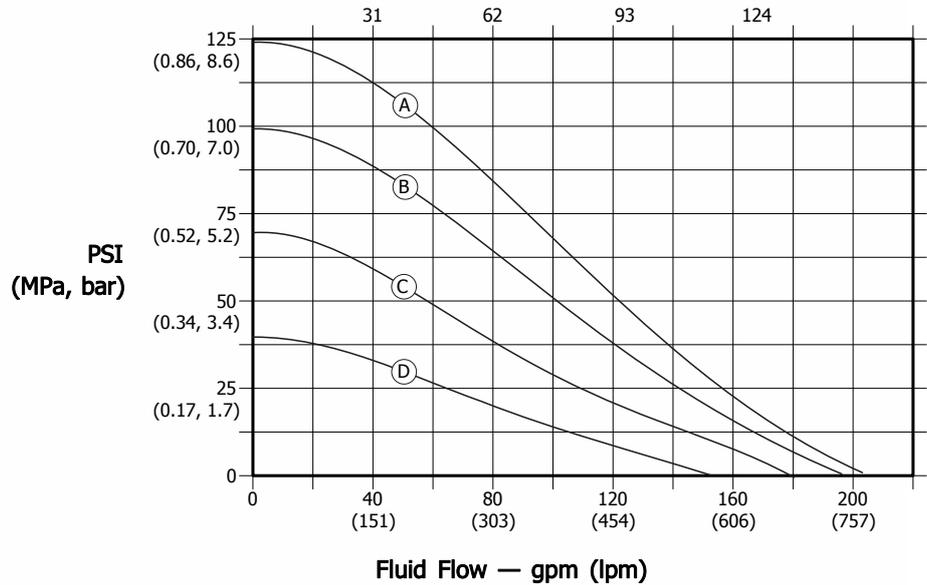
70 psi (0.48 MPa, 4.8 bar)

D

40 psi (0.28 MPa, 2.8 bar)

Fluid Pressure

Approximate Cycles per Minute



How to Read the Charts

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Air Consumption

Approximate Cycles per Minute

