AA40 (1 1/2")

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	85 scfm
Air consumption at 70psi/60gpm	43 scfm (see chart)
Maximum free flow delivery	120 gpm (454 l/min)
Maximum pump speed	192 cpm
Gallons (litres)per cycle	0.63 (2.4)
Maximum suction lift	31 ft (9.4 m) wet/dry 16 ft (4.9 m)
Maximum size pumpable solids	¼ in. (6.3 mm)
*Maximum noise level at 100psi,full flow	94 dBa
Sound power level	102.1 dBa
*Noise level at 70psi, 50 cycles/min	90.9 dBa
Maximum operating temperature	150°F (65.5°C)
Fluid inlet size	1–1/2 in. raised face flange
Fluid outlet size	1–1/2 in. raised face flange
Non-wetted external parts	polypropylene, 302 and 316 stainless steel, Polyester (labels)
Weight	
Polypropylene Pumps:	with polypropylene center section 57lb (25.9kg)
PVDF Pumps:	with polypropylene center section 74lb (33.6kg)

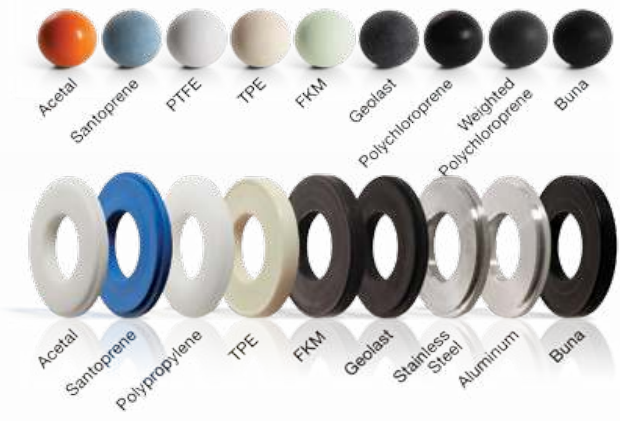
CE AA40 PUMP

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

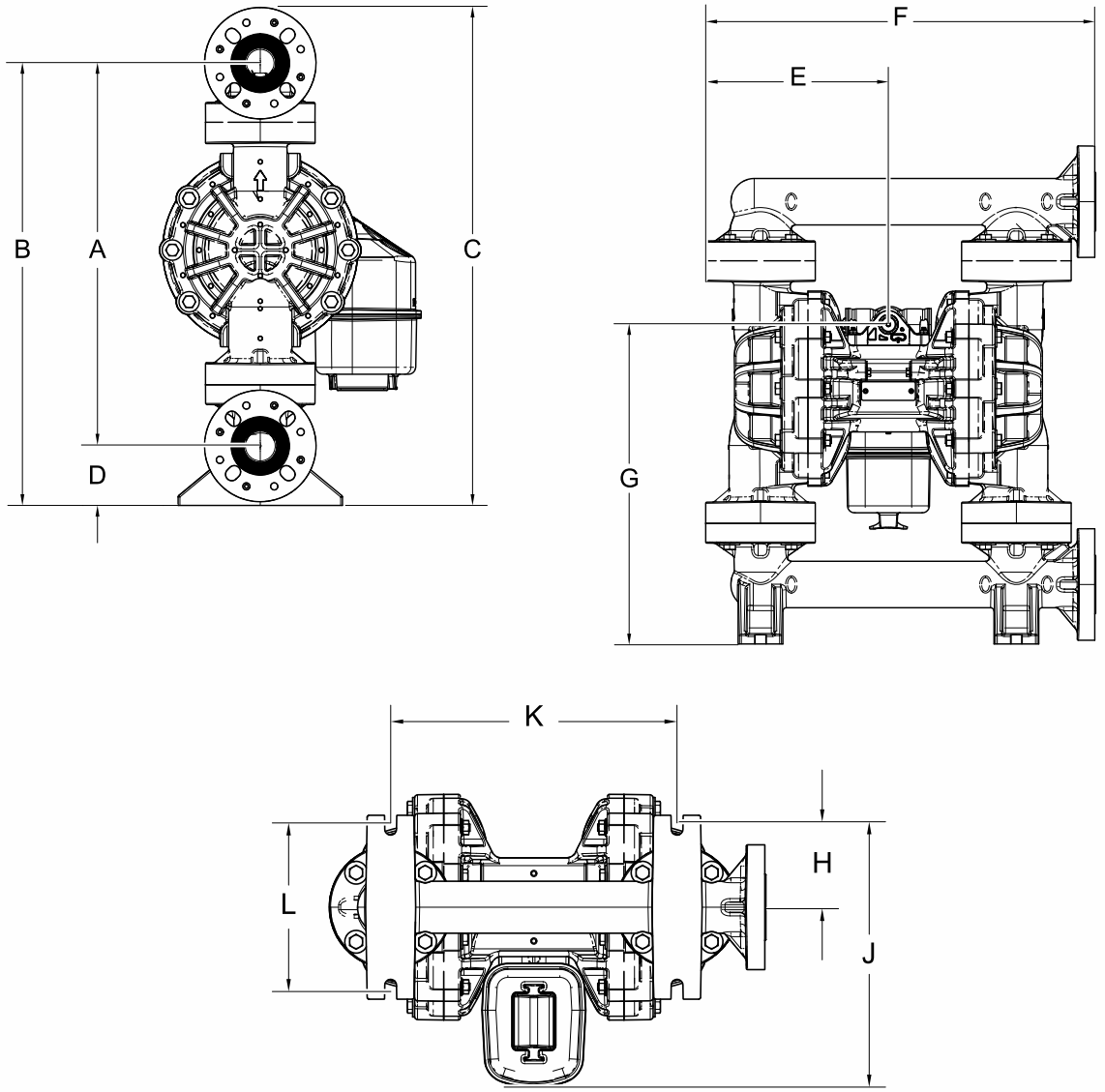


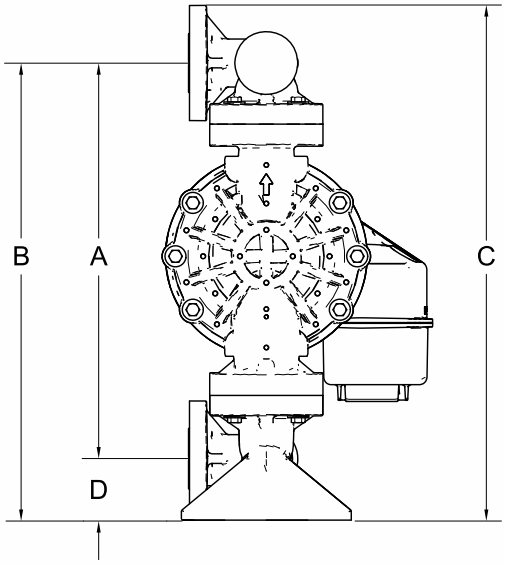
Table 1 Dimensions for Polypropylene or PVDF Pumps

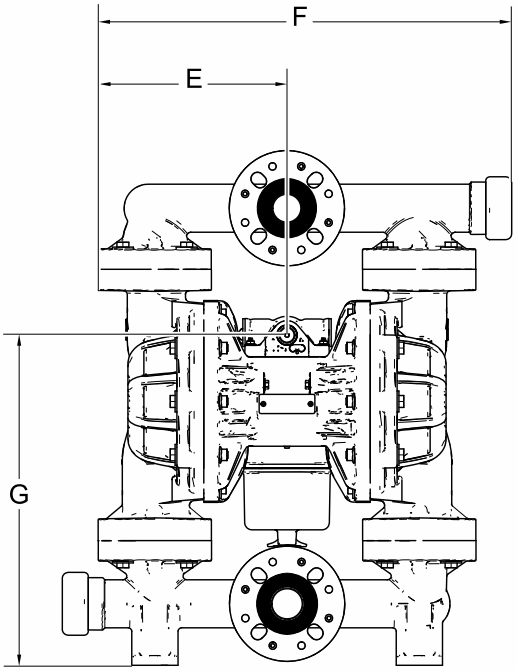
Ref.	Inches	Centimeters
A	20.6	52.3
B	23.8	60.4
C	26.8	68.1
D	3.2	8.1
E	9.9	25.1
F	21.0	53.3

Ref.	Inches	Centimeters
G	17.2	43.7
H	3.8	9.6
J	12.4	31.5
K	13.8	35.1
L	7.5	19.1

Dimensional Drawing

Center Flange Models, Polypropylene Only





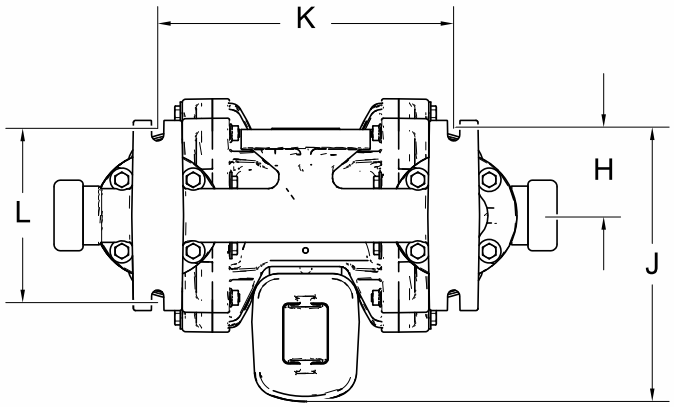


Table 2 Dimensions for Polypropylene Pumps

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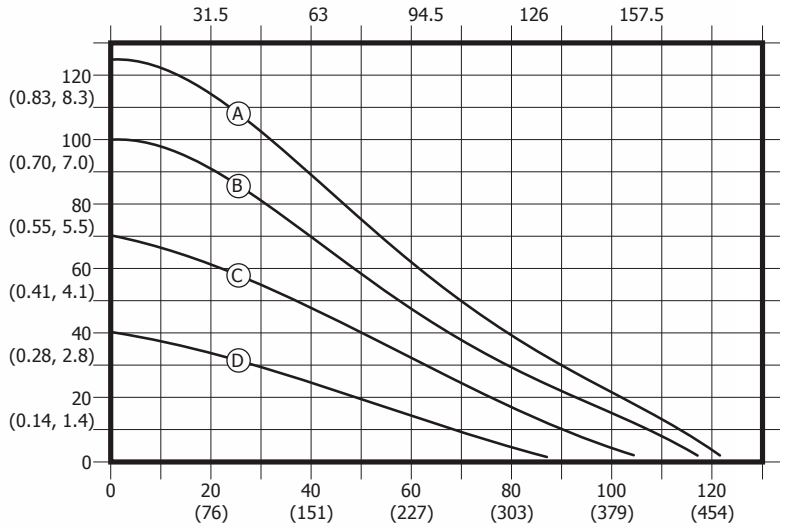
Performance Chart Ashton AA40

Test Conditions: Pump tested in water with inlet submerged.
Single Part Diaphragms

Fluid Pressure

Approximate Cycles per Minute



PSI
(MPa, bar)

Fluid Flow — gpm (lpm)

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)

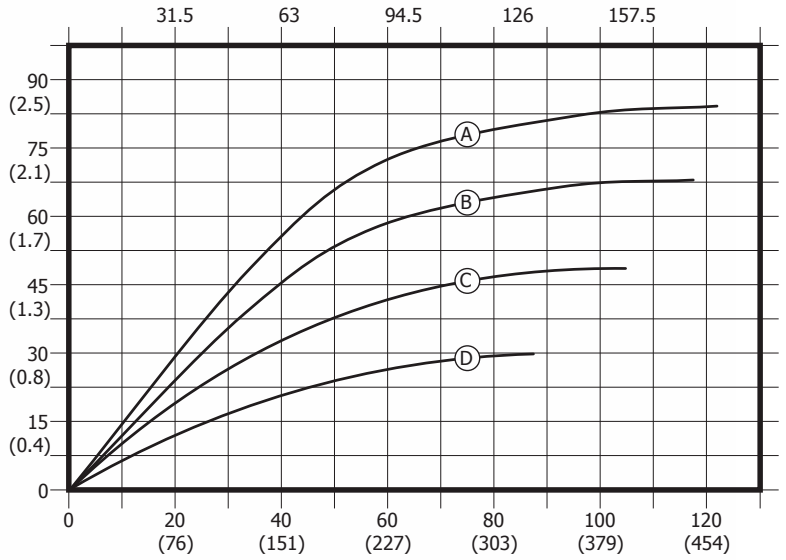
D
40 psi (0.28 MPa, 2.8 bar)

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



scfm
(Nm³/

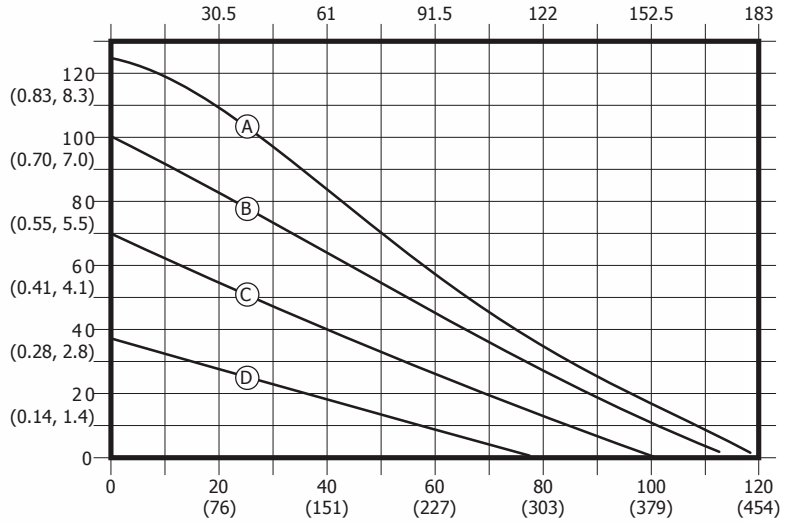
Fluid Flow — gpm (lpm)

Performance Chart Ashton AA40

Test•Conditions: Pump tested in water with inlet submerged.
Two Part Diaphragms

Fluid Pressure

Approximate Cycles per Minute



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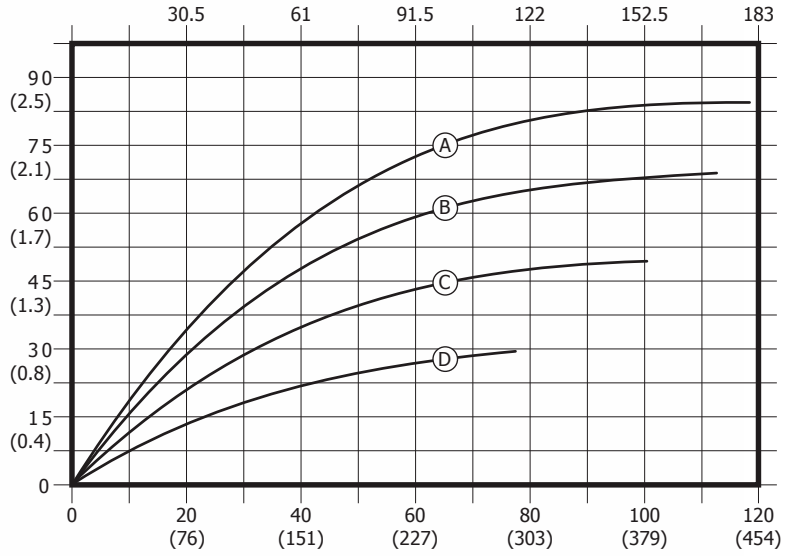


scfm (Nm^3/min.)

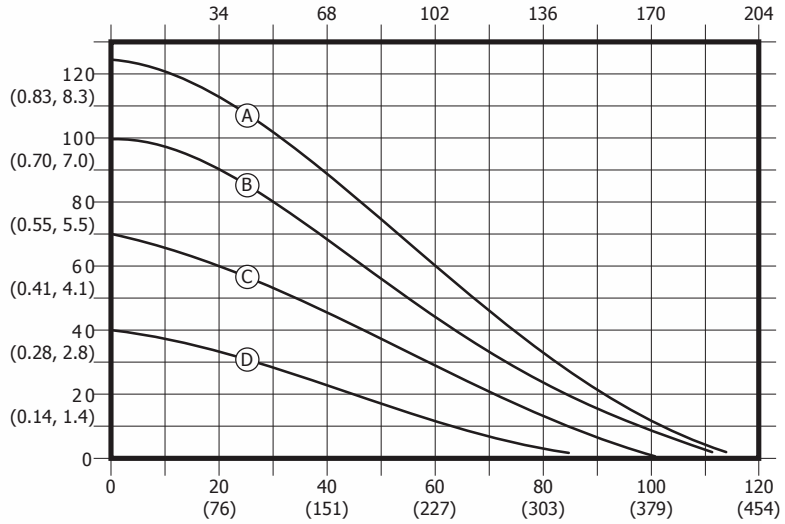
Fluid Flow — gpm (lpm)

Performance Chart Ashton AA40

Test Conditions: Pump tested in water with inlet submerged.
Over-Moulded Diaphragms

Fluid Pressure

Approximate Cycles per Minute



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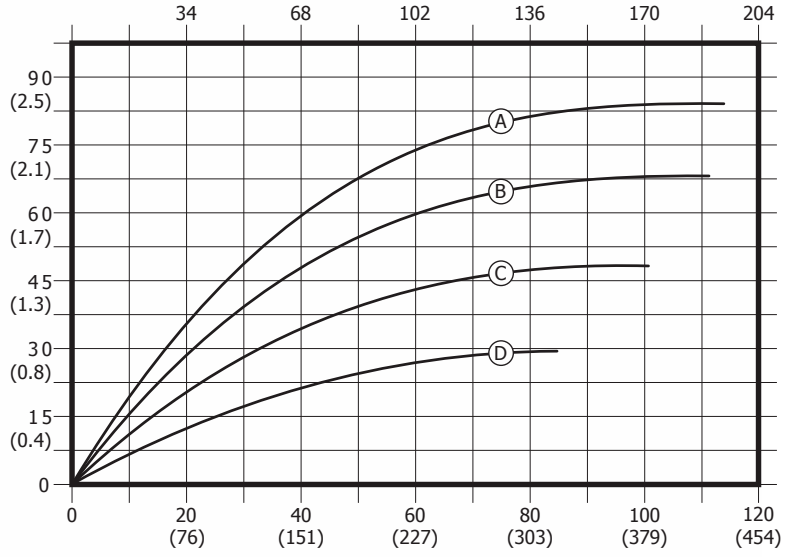

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