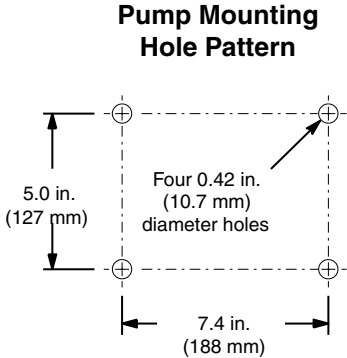
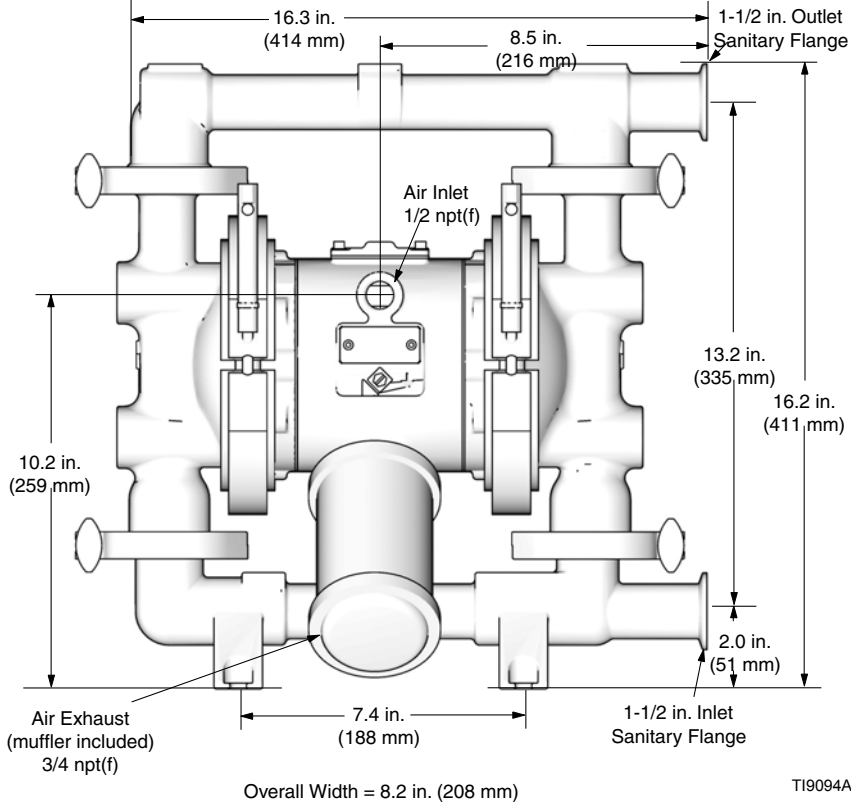


Dimensional Drawing - VA 25



VA 25 FDA

Technical Data - VA 25

Maximum fluid working pressure	120 psi (0.8 MPa, 8 bar)
Air pressure operating range	20-120 psi (0.14-0.8 MPa, 1.4-8 bar)
Maximum air consumption	50 scfm
Air consumption at 70 psi/20 gpm	18 scfm (see chart)
Maximum free-flow delivery	41 gpm (159 l/min)
Maximum pump speed	256 cpm
* Gallons (Liters) per cycle	0.16 (0.57)
Maximum suction lift	29 ft (8.83 m) wet, 16 ft (4.87 m) dry
Maximum size pumpable solids	1/8 in. (3.2 mm)
** Maximum Noise Level at 100 psi, full flow	92 dBa
** Sound Power Level	100 dBa
** Noise Level at 70 psi and 50 cpm	73 dBa

Maximum fluid operating temperature is based on the following maximum diaphragm, ball, and seat temperature ratings.	PTFE 220°F (104.4°C)
	Santoprene® 180°F (82.2°C)
	EPDM 275°F (135°C)
	Stainless steel 250°F (121.1°C)

Air inlet size	0.5 in. npt(f)
Fluid inlet size	1.5 in. sanitary flange
Fluid outlet size	1.5 in. sanitary flange

Wetted parts

***All fluid contact materials are FDA-compliant and meet the United States Code of Federal Regulations (CFR) Title 21, Section 177.

Wetted materials on all models	316 SST
Wetted material depending on model	PTFE, Santoprene®, EPDM

CAUTION:

Santoprene® may be used only with non-fatty, non-oily foods or alcohols up to 15%.

Non-wetted external parts	300 series stainless steel, polyester (labels), LDPE foam (gasket)
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Weight

All models	55 lb. (24.9 kg)
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Santoprene® is a registered trademark of the Monsanto Co.

Loctite® is a registered trademark of the Loctite Corporation.

* *Displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.*

** *Noise levels measured with the pump mounted to a solid surface. Sound power measured per ISO Standard 9614-1.*

*** *The pump user must verify that the construction materials meet their specific application requirements.*

Performance Chart - VA 25

Test Conditions: Pump tested in water with inlet submerged

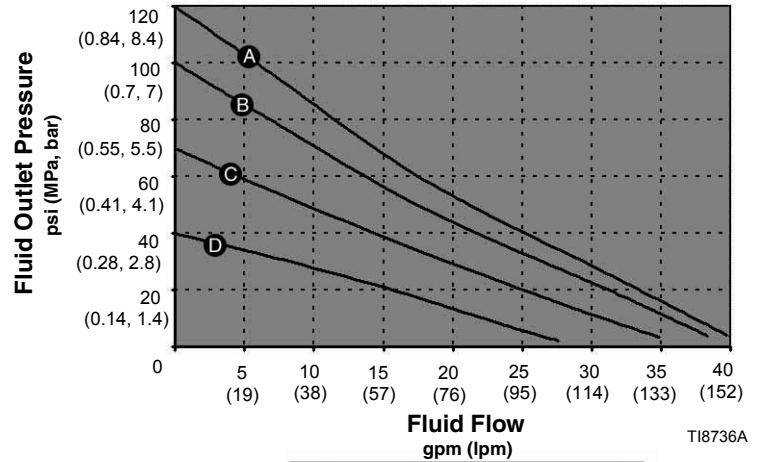
Fluid Pressure Curves

- A** at 120 psi (0.7 MPa, 7 bar) air pressure
- B** at 100 psi (0.7 MPa, 7 bar) air pressure
- C** at 70 psi (0.48 MPa, 4.8 bar) air pressure
- D** at 40 psi (0.28 MPa, 2.8 bar) air pressure

To find Fluid Outlet Pressure

(psi/MPa/bar) at a specific fluid flow (gpm/lpm) and operating air pressure (psi/MPa/bar):

1. Locate fluid flow rate along bottom of chart.
2. Follow vertical line up to intersection with selected fluid outlet pressure curve.
3. Follow left to scale to read fluid outlet pressure.



AIR PRESSURES	
A	= @ 120 psi (8.4 bar, 0.84 MPa)
B	= @ 100 psi (7.0 bar, 0.7 MPa)
C	= @ 70 psi (4.8 bar, 0.5 MPa)
D	= @ 40 psi (2.8 bar, 0.3 MPa)

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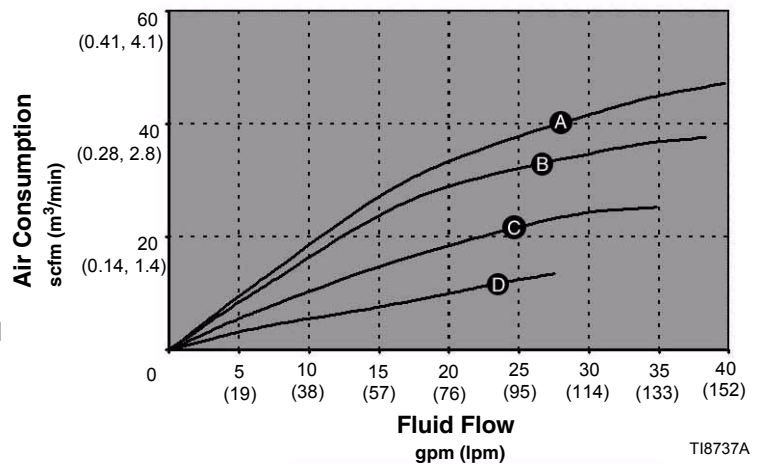
Air Consumption Curves

- A** at 120 psi (0.7 MPa, 7 bar) air pressure
- B** at 100 psi (0.7 MPa, 7 bar) air pressure
- C** at 70 psi (0.48 MPa, 4.8 bar) air pressure
- D** at 40 psi (0.28 MPa, 2.8 bar) air pressure

To find Pump Air Pressure

(scfm or m³/min) at a specific fluid flow (gpm/lpm) and operating air pressure (psi/MPa/bar):

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

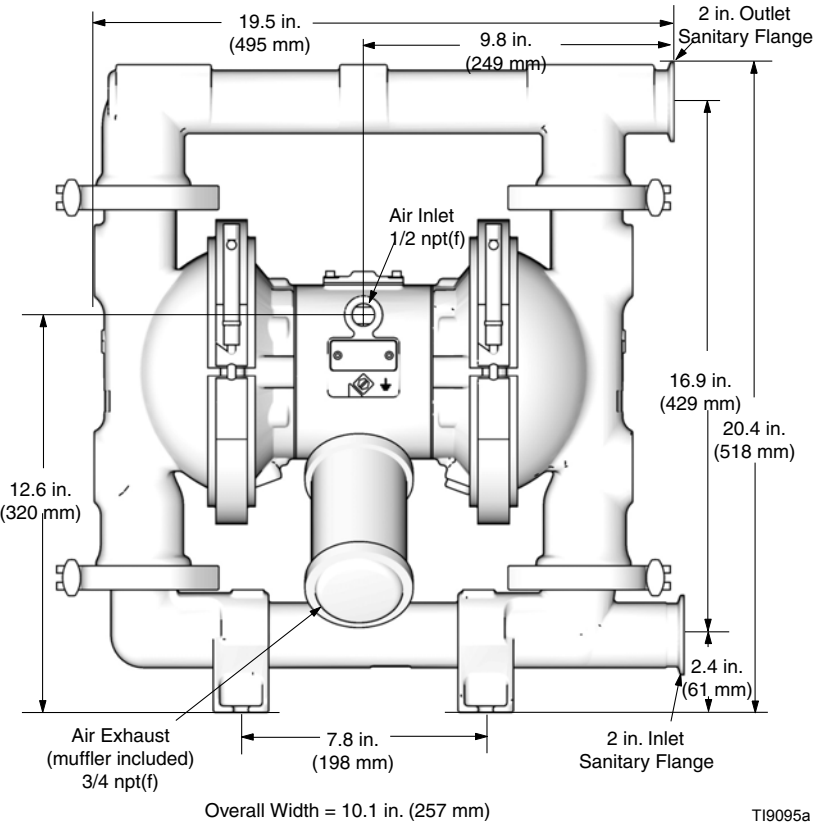


AIR PRESSURES	
A	= @ 120 psi (8.4 bar, 0.84 MPa)
B	= @ 100 psi (7.0 bar, 0.7 MPa)
C	= @ 70 psi (4.8 bar, 0.5 MPa)
D	= @ 40 psi (2.8 bar, 0.3 MPa)

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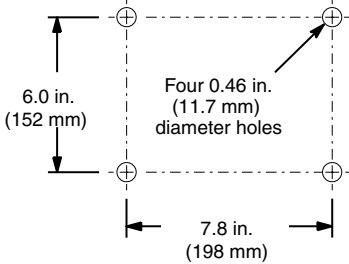
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Dimensional Drawing - VA 40



T19095a

Pump Mounting Hole Pattern



VA 40 FDA

Technical Data - VA 40

Maximum fluid working pressure	120 psi (0.8 MPa, 8 bar)
Air pressure operating range	20-120 psi (0.14-0.8 MPa, 1.4-8 bar)
Maximum air consumption	130 scfm
Air consumption at 70 psi/50 gpm	42 scfm (see chart)
Maximum free-flow delivery	100 gpm (379 l/min)
Maximum pump speed	200 cpm
* Gallons (Liters) per cycle	0.5 (1.9)
Maximum suction lift	29 ft (8.83 m) wet, 14 ft (4.26 m) dry
Maximum size pumpable solids	3/16 in. (4.8 mm)
** Maximum Noise Level at 100 psi, full flow	88 dBa
** Sound Power Level	95 dBa
** Noise Level at 70 psi and 50 cpm	79 dBa

Maximum fluid operating temperature is based on the following maximum diaphragm, ball, and seat temperature ratings.	PTFE 220°F (104.4°C)
	Santoprene® 180°F (82.2°C)
	EPDM 275°F (135°C)
	Stainless steel 250°F (121.1°C)

Air inlet size	0.5 in. npt(f)
Fluid inlet size	2.0 in. Sanitary flange
Fluid outlet size	2.0 in. Sanitary flange

Wetted parts

***All fluid contact materials are FDA-compliant and meet the United States Code of Federal Regulations (CFR) Title 21, Section 177.

Wetted materials on all models	316 SST
Wetted material depending on model	PTFE, Santoprene®, EPDM

CAUTION:

Santoprene® may be used only with non-fatty, non-oily foods or alcohols up to 15%.

Non-wetted external parts	300 series stainless steel, polyester (labels), LDPE foam (gasket)
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Weight

All models	89 lb (40.3 kg)
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Santoprene® is a registered trademark of the Monsanto Co.

Loctite® is a registered trademark of the Loctite Corporation.

* *Displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.*

** *Noise levels measured with the pump mounted to a solid surface. Sound power measured per ISO Standard 9614-1.*

*** *The pump user must verify that the construction materials meet their specific application requirements.*

Performance Chart - VA 40

Test Conditions: Pump tested in water with inlet submerged

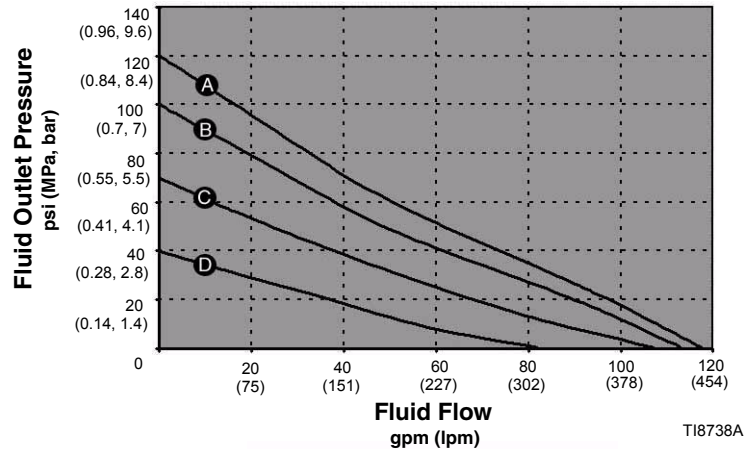
Fluid Pressure Curves

- A** at 120 psi (0.7 MPa, 7 bar) air pressure
- B** at 100 psi (0.7 MPa, 7 bar) air pressure
- C** at 70 psi (0.48 MPa, 4.8 bar) air pressure
- D** at 40 psi (0.28 MPa, 2.8 bar) air pressure

To find Fluid Outlet Pressure

(psi/MPa/bar) at a specific fluid flow (gpm/lpm) and operating air pressure (psi/MPa/bar):

1. Locate fluid flow rate along bottom of chart.
2. Follow vertical line up to intersection with selected fluid outlet pressure curve.
3. Follow left to scale to read fluid outlet pressure.



AIR PRESSURES	
(A)	= @ 120 psi (8.4 bar, 0.84 MPa)
(B)	= @ 100 psi (7.0 bar, 0.7 MPa)
(C)	= @ 70 psi (4.8 bar, 0.5 MPa)
(D)	= @ 40 psi (2.8 bar, 0.3 MPa)

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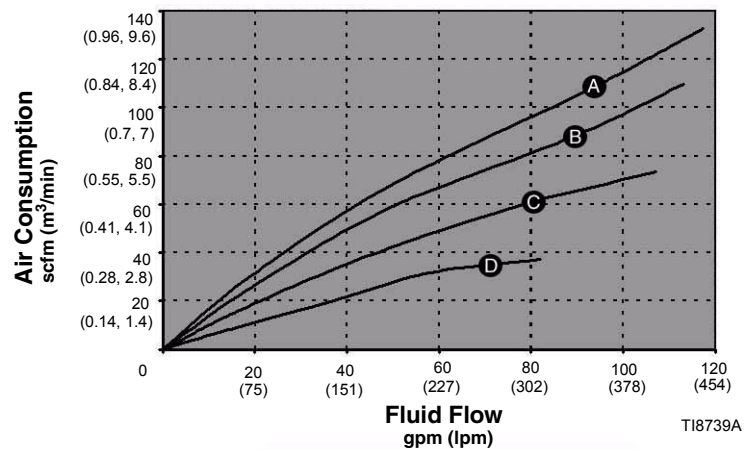
Air Consumption Curves

- A** at 120 psi (0.7 MPa, 7 bar) air pressure
- B** at 100 psi (0.7 MPa, 7 bar) air pressure
- C** at 70 psi (0.48 MPa, 4.8 bar) air pressure
- D** at 40 psi (0.28 MPa, 2.8 bar) air pressure

To find Pump Air Pressure

(scfm or m³/min) at a specific fluid flow (gpm/lpm) and operating air pressure (psi/MPa/bar):

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

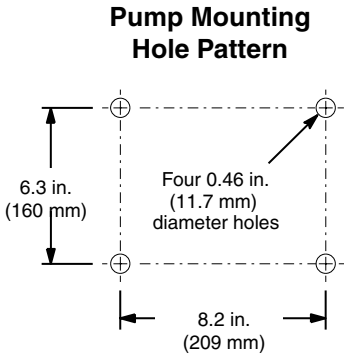
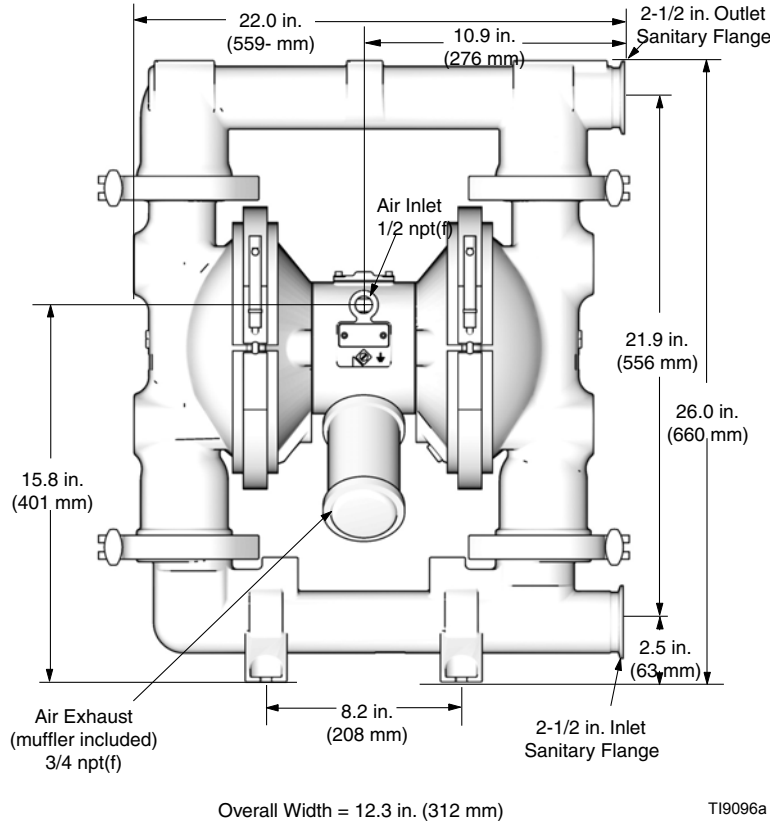


AIR PRESSURES	
(A)	= @ 120 psi (8.4 bar, 0.84 MPa)
(B)	= @ 100 psi (7.0 bar, 0.7 MPa)
(C)	= @ 70 psi (4.8 bar, 0.5 MPa)
(D)	= @ 40 psi (2.8 bar, 0.3 MPa)

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Dimensional Drawing - VA 50



VA 50 FDA

Technical Data - VA 50

Maximum fluid working pressure	120 psi (0.8 MPa, 8 bar)
Air pressure operating range	20-120 psi (0.14-0.8 MPa, 1.4-8 bar)
Maximum air consumption	175 scfm
Air consumption at 70 psi/80 gpm	70 scfm (see chart)
Maximum free-flow delivery	160 gpm (568 lpm)
Maximum pump speed	165 cpm
* Gallons (Liters) per cycle	0.97 (3.67)
Maximum suction lift	29 ft (8.83 m) wet, 16 ft (4.87 m) dry
Maximum size pumpable solids	1/4 in. (6.3 mm)
** Maximum Noise Level at 100 psi, full flow	95 dBa
** Sound Power Level	102 dBa
** Noise Level at 70 psi and 50 cpm	84 dBa

Maximum fluid operating temperature is based on the following maximum diaphragm, ball, and seat temperature ratings.	PTFE 220°F (104.4°C) Santoprene® 180°F (82.2°C) EPDM 275°F (135°C) Stainless steel 250°F (121.1°C)
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Air inlet size	0.5 in. npt(f)
Fluid inlet size	2.5 in. sanitary flange
Fluid outlet size	2.5 in. sanitary flange

Wetted parts

***All fluid contact materials are FDA-compliant and meet the United States Code of Federal Regulations (CFR) Title 21, Section 177.

Wetted materials on all models	316 SST
Wetted material depending on model	PTFE, Santoprene®, EPDM

CAUTION:

Santoprene® may be used only with non-fatty, non-oily foods or alcohols up to 15%.

Non-wetted external parts	300 series stainless steel, polyester (labels), LDPE foam (gasket)
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Weight

All models	147 lb (66.7 kg)
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Santoprene® is a registered trademark of the Monsanto Co.

Loctite® is a registered trademark of the Loctite Corporation.

* *Displacement per cycle may vary based on suction condition, discharge head, air pressure, and fluid type.*

** *Noise levels measured with the pump mounted to a solid surface. Sound power measured per ISO Standard 9614-1.*

*** *The pump user must verify that the construction materials meet their specific application requirements.*

Performance Chart - VA 50

Test Conditions: Pump tested in water with inlet submerged

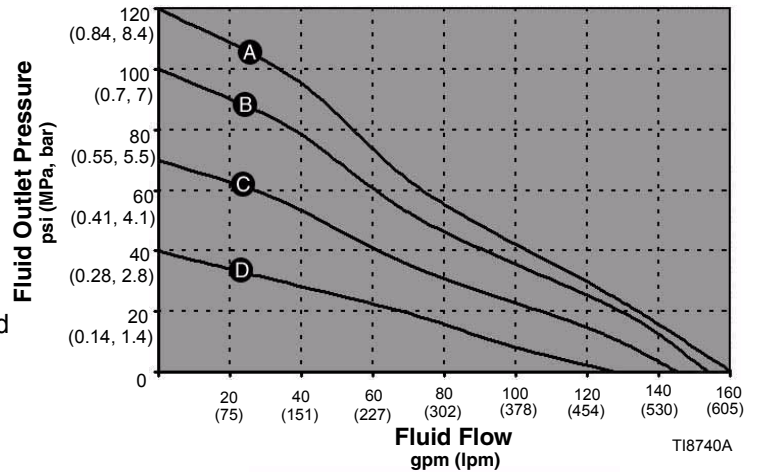
Fluid Pressure Curves

- A** at 120 psi (0.7 MPa, 7 bar) air pressure
- B** at 100 psi (0.7 MPa, 7 bar) air pressure
- C** at 70 psi (0.48 MPa, 4.8 bar) air pressure
- D** at 40 psi (0.28 MPa, 2.8 bar) air pressure

To find Fluid Outlet Pressure

(psi/MPa/bar) at a specific fluid flow (gpm/lpm) and operating air pressure (psi/MPa/bar):

1. Locate fluid flow rate along bottom of chart.
2. Follow vertical line up to intersection with selected fluid outlet pressure curve.
3. Follow left to scale to read fluid outlet pressure.



AIR PRESSURES	
A	= @ 120 psi (8.4 bar, 0.84 MPa)
B	= @ 100 psi (7.0 bar, 0.7 MPa)
C	= @ 70 psi (4.8 bar, 0.5 MPa)
D	= @ 40 psi (2.8 bar, 0.3 MPa)

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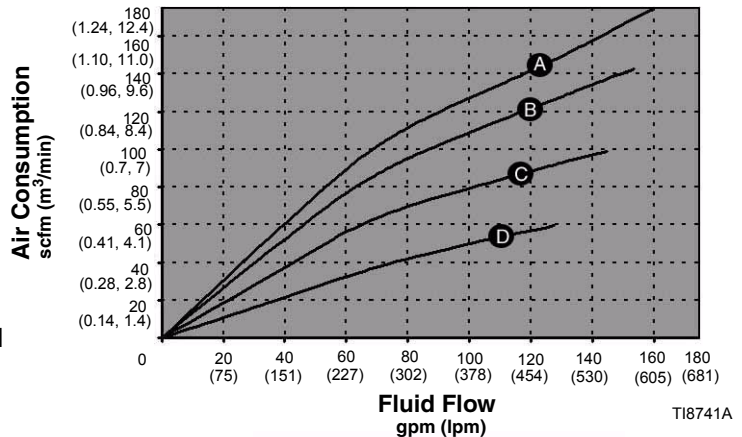
Air Consumption Curves

- A** at 120 psi (0.7 MPa, 7 bar) air pressure
- B** at 100 psi (0.7 MPa, 7 bar) air pressure
- C** at 70 psi (0.48 MPa, 4.8 bar) air pressure
- D** at 40 psi (0.28 MPa, 2.8 bar) air pressure

To find Pump Air Pressure

(scfm or m³/min) at a specific fluid flow (gpm/lpm) and operating air pressure (psi/MPa/bar):

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



AIR PRESSURES	
A	= @ 120 psi (8.4 bar, 0.84 MPa)
B	= @ 100 psi (7.0 bar, 0.7 MPa)
C	= @ 70 psi (4.8 bar, 0.5 MPa)
D	= @ 40 psi (2.8 bar, 0.3 MPa)

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