

V-4417 Series Vacuum Generator



The V-4417 Series Vacuum Generator is designed to produce a low-flow vacuum using the venturi principle. The vacuum generator converts compressed air to a vacuum consuming 4.9 SCFH with a 13 PSI supply.

When air is allowed to flow through the generator, the high velocity of the air passing through the center port draws a vacuum through the side ports. Two red vinyl caps are provided to cap the unused output port.

FEATURES

- Miniature Size
- Low Cost

SPECIFICATIONS

Vacuum Range: 0" Hg to 15" Hg at 13 PSI supply
 Vacuum Flow: 1 SCFH
 Maximum Supply: 20 PSI
 Operating Temperature: 0° to 180°F. (-18° to 82°C.)
 Recommended Filtration: 5 Micron
 Air Consumption: 4.9 SCFH

MATERIALS

Housing: Polysulfone

MOUNTING

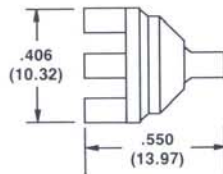
Inline

PORT CONNECTIONS

Straight ports for 1/16" I.D. flexible tubing

ORDERING INFORMATION

Model Number: V-4417-10
 Vacuum Range: 0-15" Hg



FLOW PATTERN

() = Metric Dimensions

F-4417 Series Sensor Venturi



The F-4417 Series Sensor Venturis are fluidic devices that convert flow changes through bleed type fluidic sensors to fully on and fully off pressure signals. The F-4417-10 and -15 Sensor Venturis are single units designed for two different supply pressure ranges. The F-4417-40 Sensor Venturi is a conveniently mounted composite of four Sensor Venturis with a single supply connection that can be panel mounted. The output state of each venturi shows on black and white indicator.

The Sensor Venturi allows a high velocity of air to pass through the center port drawing a vacuum through the two side output ports producing a definite off signal. For entirely free flow, the output level will be a vacuum typically equal to 20% of the supply pressure. When sensor flow is obstructed completely, full supply pressure is diverted to the two side output ports. Two output ports are provided on each unit; cap the unused connection with a vinyl cap when required.

Sensor Venturi Flow Patterns



FEATURES

- Definite OFF signal
- No Moving Parts
- Small Size
- Low Cost

SPECIFICATIONS

Recommended Filtration: 5 Micron

MATERIALS

Body: Polysulfone
 Indicators: Celcon
 Spring: Stainless Steel

MOUNTING

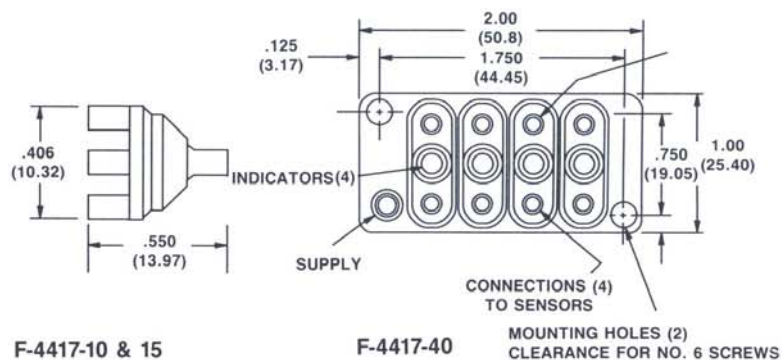
Inline or panel mounted

PORT CONNECTIONS

Straight ports for 1/16" I.D. flexible tubing

ORDERING INFORMATION (Order by model number.)

| Model Number | F-4417-10 | F-4417-15 | F-4417-40 |
|-----------------------|-----------------------------------|-----------|-----------------------------------|
| Supply Pressure | 2 - 20 PSI | 0 - 3 PSI | 0.5 - 10 PSI |
| Supply Flow | Equivalent to 0.016" Dia. Orifice | | Equivalent to 0.032" Dia. Orifice |
| Operating Temperature | 0° to 180°F. (-18° to 82°C.) | | 40° to 120°F. (4.4° to 49°C.) |



F-4417-10 & 15

F-4417-40

MOUNTING HOLES (2)
 CLEARANCE FOR NO. 6 SCREWS

Please Read Warranty on Page 8.

Check Chemical Compatibility of Polysulfone.