

# F-460

## Variable Area Flow Meter



### Features

- > Polysulfone body resists high temperatures and pressures
- > Ultrapure - No metal in fluid path
- > Indoor use only
- > Full scale accuracy +/- 2.5%
- > PTFE float for corrosive applications

### Highlights

**Flow range**

0.1 - 5.0 GPM  
0.4 - 20.0 LPM

**Pressures up to**

150 PSI  
(10.3 bar)

**Max. fluid temp.**

210 °F / 98 °C (PVDF)  
130 °F / 54 °C (PVC)

**Body**

Polysulfone

**Adapters**

1/2" & 3/4" F/NPT

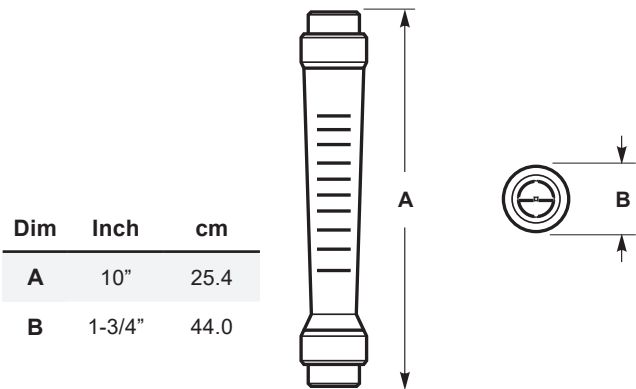
**Warranty**

1 Year

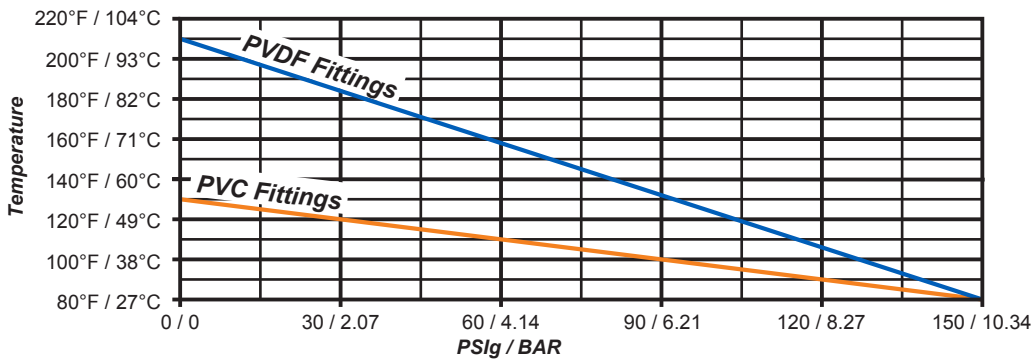


|                             |                                                                               |
|-----------------------------|-------------------------------------------------------------------------------|
| Maximum Working Pressure    | 150 PSI (10.3 bar) @ 70 °F (21 °C)                                            |
| Maximum Fluid Temperature   | PVC adapters: 54 °C (130 °F) @ 0 Bar<br>PVDF adapters: 98 °C (210 °F) @ 0 Bar |
| Full Scale Accuracy         | +/- 2.5%                                                                      |
| Calibration Fluid           | Water, specific gravity 1.0                                                   |
| Scale Length                | 4" (100mm)                                                                    |
| Environment                 | Not for direct sunlight exposure                                              |
| Maximum Pressure Drop       | 2 PSI                                                                         |
| Approximate Shipping Weight | 1 lb. (0.45 kg)                                                               |

Dimensions



Maximum Temperature vs. Pressure



| Non-wetted Components: |                                  | Wetted Components: |                     |
|------------------------|----------------------------------|--------------------|---------------------|
| Union Nuts             | PVC (optional Anodized aluminum) | Meter Body         | Polysulfone         |
|                        |                                  | Adapters           | PVC (optional PVDF) |
|                        |                                  | O-ring Seals       | Viton®              |
|                        |                                  | Float              | PTFE                |
|                        |                                  | Float Stop         | Polysulfone         |

Output Specifications

| Model    | Dual Scale Range |         | Max Pressure | Max Temperature | Float Material |
|----------|------------------|---------|--------------|-----------------|----------------|
|          | GPM              | LPM     | PSI (bar)    | °F (°C)         |                |
| F-46010L | 0.1–1.2          | 0.4–4.4 | 150 (10.3)   | 70 (21)         | PTFE           |
| F-46020L | 0.2–2.0          | 0.2–2.0 | 150 (10.3)   | 70 (21)         | PTFE           |
| F-46030L | 0.3–3.0          | 1.0–11  | 150 (10.3)   | 70 (21)         | PTFE           |
| F-46050L | 0.5–5.0          | 2.0–20  | 150 (10.3)   | 70 (21)         | PTFE           |

# Model Number Matrix

## F-460 Model Number

|                     |            |                                             |    |    |   |     |
|---------------------|------------|---------------------------------------------|----|----|---|-----|
| F                   | Flow Meter |                                             |    |    |   |     |
| Series              |            |                                             |    |    |   |     |
| 460                 |            | F-460 Polysulfone body                      |    |    |   |     |
| Scale               |            |                                             |    |    |   |     |
| 10                  |            | 0.1 - 1.2 gpm ( 0.4 - 4.4 lpm) Teflon Float |    |    |   |     |
| 20                  |            | 0.2 - 2.0 gpm (0.8 - 8.0 lpm) Teflon Float  |    |    |   |     |
| 30                  |            | 0.3 - 3.0 gpm (1.0 - 11 lpm) Teflon Float   |    |    |   |     |
| 50                  |            | 0.5 - 5.0 gpm (2.0 - 20 lpm) Teflon Float   |    |    |   |     |
| Union               |            |                                             |    |    |   |     |
| LX                  |            | Aluminum union                              |    |    |   |     |
| LP                  |            | PVC union                                   |    |    |   |     |
| Adapter             |            |                                             |    |    |   |     |
| 08P                 |            | 0.5" Female NPT, PVC                        |    |    |   |     |
| 08K                 |            | 0.5" Female NPT, PVDF                       |    |    |   |     |
| 12P                 |            | 0.75" Female NPT, PVC                       |    |    |   |     |
| 12K                 |            | 0.75" Female NPT, PVDF                      |    |    |   |     |
| F                   | -          | 460                                         | 10 | LX | - | 08P |
| Sample Model Number |            |                                             |    |    |   |     |

\*In-house NIST Calibration, OEM packaging and silicone oil free options are also available.