



F-451

Variable Area Flow Meter

Features

- > Polysulfone body resists high temperatures and pressures
- > In-line or panel mount configurations available
- > Indoor use only
- > Full Scale Accuracy +/- 3%
- > 316ss float & guide-wire

Highlights

Flow range

0.5 - 40 GPM
2.0 - 155 LPM

Pressures up to

150 PSI
(10.3 bar)

Max. fluid temp.

212 °F
100 °C

Body

Polysulfone

Adapters

1.0", 1.5" F/NPT
and 50mm slip

Warranty

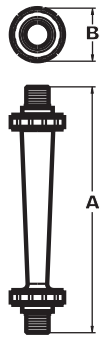
1 Year



Maximum Working Pressure	150 PSI (10.3 bar) @ 70 °F (21 °C)
Maximum Fluid Temperature	Standard units - 1" pipe: 212 °F (100 °C) @ 0 PSI Standard units - 1-1/2" pipe: 120 °F (49 °C) @ 0 PSI
Full Scale Accuracy	+/- 3%
Calibration Fluid	Water, specific gravity 1.0
Scale Length	6" (150mm)
Environment	Not for direct sunlight exposure
Maximum Pressure Drop	1 PSI
Approximate Shipping Weight	3 lb. (1.36 kg)

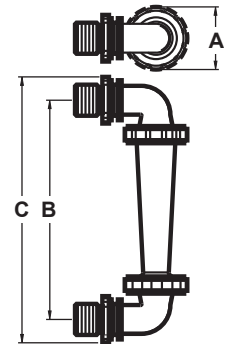
Dimensions

Dim	Inch	cm
A	14-1/2"	36.83
B	3-5/16"	8.41



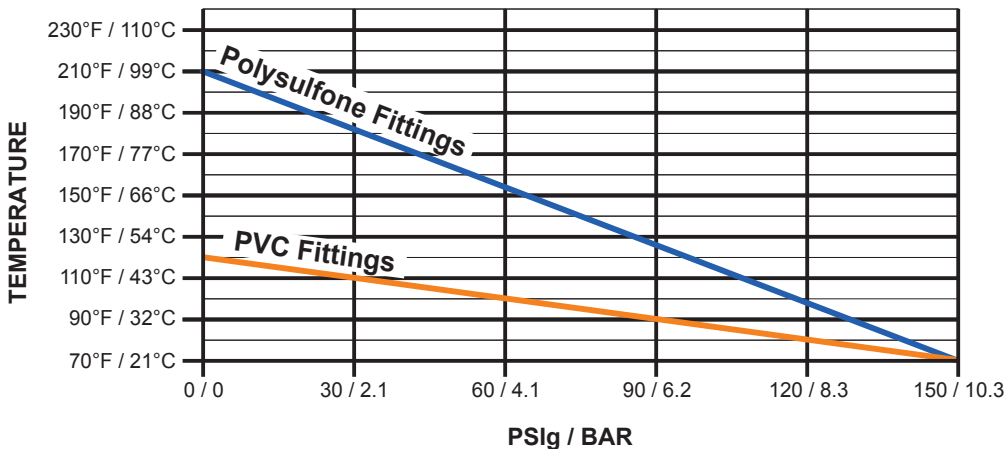
Vertical Inline Models

Dim	Inch	cm
A	3-5/16"	8.41
B	15"	38.1
C	17"	43.18



Panel Mount Elbow Models

Maximum Temperature vs. Pressure



Non-wetted Components:

Union Nuts	Fiber reinforced nylon
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Wetted Components:

Meter Body	Polysulfone
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Adapters	1" pipe: Polysulfone, F/NPT or elbow M/NPT
	1.5" pipe: PVC, F/NPT

Guide Rod Holder	Polysulfone
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O-ring Seals	Viton® (optional EP)
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Float	316SS or PTFE (varies per model)
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Guide Rod	316SS
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Optional Shield	Polycarbonate
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Output Specifications

Model	Feed Rate		Max Pressure	Max Temperature	Float Material
	GPM	LPM	PSI (bar)	°F (°C)	
F-451006L	0.5–6	2–22	150 (10.3)	70 (21)	Teflon
F-451001L	1.0–10	4–40	150 (10.3)	70 (21)	316SS
F-451002L	2.0–20	6–76	150 (10.3)	70 (21)	316SS
F-451003L	3.0–30	23–115	150 (10.3)	70 (21)	316SS
F-451004L	4.0–40	15–155	150 (10.3)	70 (21)	316SS

Model Number Matrix

F-451 Model Number

F	Flow Meter						
Series							
451	F-451 Polysulfone body						
Scale							
006	0.5 - 6 gpm (2 - 22 lpm) Teflon Float						
001	1 - 10 gpm (4 - 40 lpm) 316ss Float						
002	2 - 20 gpm (6 - 76 lpm) 316ss Float						
003	3 - 30 gpm (12 - 115 lpm) 316ss Float						
004	4 - 40 gpm (15 - 155 lpm) 316ss Float						
Guide-Wire Material							
LHN	316 Stainless steel rod						
Special							
(Blank)	Standard meter						
Adapter							
(Blank)	1.0" Female NPT, Polysulfone						
-24	1.5" Female NPT, PVC						
E	90° Elbow 1.0" Male NPT , Polysulfone						
O-Ring							
(Blank)	Viton						
-22R	EP						
F	-	451	006	LHN			Sample Model Number

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

Optional Accessories and Components

Polycarbonate Shield Kit KIT-SHS
 (Includes shield and two adapters. Some assembly required.)

