

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)

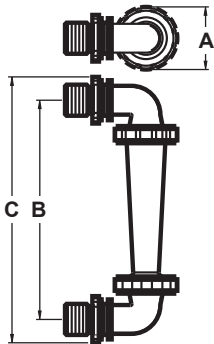
Dimensions

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



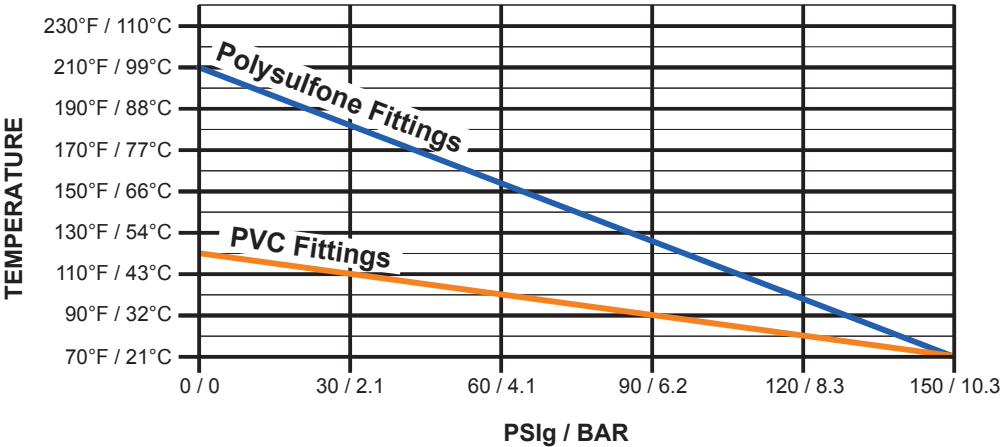
Vertical Inline Models

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
Adapters	1" pipe: Polysulfone, F/NPT or elbow M/NPT 1.5" pipe: PVC, F/NPT
Guide Rod Holder	Polysulfone
O-ring Seals	Viton®
Float	316ss or PTFE (varies per model)
Guide Rod	316ss
Optional Shield	Polycarbonate

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	3/16" Stainless steel rod				
Special						
	(Blank)	Standard meter				
	C	Polycarbonate shield				
Adapter						
	(Blank)	1.0" Female NPT, Polysulfone				
	-24	1.5" Female NPT, PVC				
	-50m	50mm Slip, PVC				
	E	90° Elbow 1.0" Male NPT , Polysulfone				
F	-	451	006	LHN		
						Sample Model Number

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