



F-452

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 +/- 2%
- > 316SS float & guide-wire

Highlights

Flow range

2 - 175 GPM
8 - 675 LPM

Pressures up to

150 PSI
(10.3 bar)

Max. fluid temp.

200 °F
93 °C

Body

Polysulfone

Adapters

2.0" F/NPT

Warranty

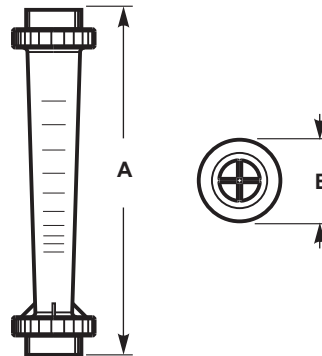
1 Year



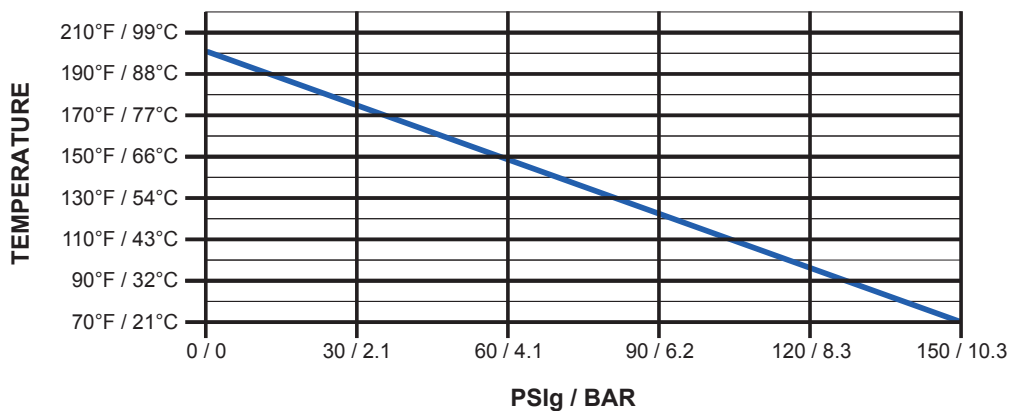
Maximum Working Pressure	150 PSI (10.3 bar) @ 70 °F (21 °C)
Maximum Fluid Temperature	200 °F (93 °C) @ 0 PSI
Full Scale Accuracy	+/- 2%
Calibration Fluid	Water, specific gravity 1.0
Scale Length	8" (200mm)
Environment	Not for direct sunlight exposure
Maximum Pressure Drop	2 PSI
Approximate Shipping Weight	5 lb. (2.27 kg)

Dimensions

Dim	Inch	cm
A	18-7/8"	47.9
B	4-5/8"	11.7



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	Polysulfone
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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	Dual Scale Range		Max Pressure	Max Temperature	Float Material
	GPM	LPM	PSI (bar)	°F (°C)	
F-452020L	2–20	8–78	150 (10.3)	70 (21)	PTFE
F-452080L	8–80	40–300	150 (10.3)	70 (21)	316SS
F-452130L	20–130	80–500	150 (10.3)	70 (21)	316SS

Model Number Matrix

F-452 Model Number

F	Flow Meter					
Series						
	452	F-452 Polysulfone Body				
Scale						
	020	2 - 20 gpm (8 - 78 lpm) Teflon Float				
	060	6 - 60 gpm (30 - 230 lpm) 316ss Float				
	080	8 - 80 gpm (40 - 300 lpm) 316ss Float				
	100	6 - 100 gpm (20 - 380 lpm) 316ss Float				
	130	20 - 130 gpm (80 - 500 lpm) 316ss Float				
	175	25 - 175 gpm (100 - 675 lpm) 316ss Float				
Guide-Wire Material						
	LHN	316 Stainless steel rod				
Special						
	(Blank)	Standard Meter				
Adapter						
	(Blank)	2.0" Female NPT, Polysulfone				
O-Rings						
	(Blank)	Viton				
	-22T	EP				
F	-	452	020	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-SHL
 (Includes shield and two grooved unions. Some assembly required.)

