F-420

Variable Area Flow Meter

Features

> Durable, highly polished, one-piece meter body

> Annealed for added strength and chemical resistance

> Acceptable in direct sunlight

> Full scale accuracy +/- 5%

> 316SS float & guide-wire

Highlights

Flow range

5.0 - 50 GPM
20 - 200 LPM

Pressures up to

130 PSI
(8.9 bar)

Max. fluid temp.

130 ˚F
54 ˚C

Body

Acrylic

Adapters

1.0” F/NPT
1.5” M/NPT

Warranty

1 Year

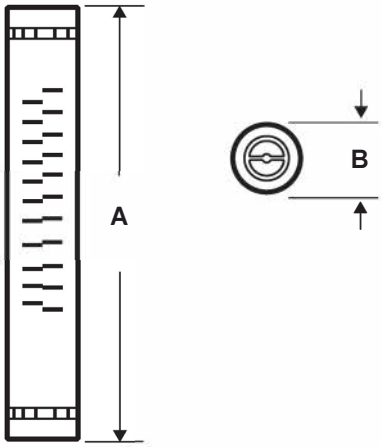
For more help and information regarding **F-420**, please visit www.blue-white.com or scan this QR code.

Engineering Specifications

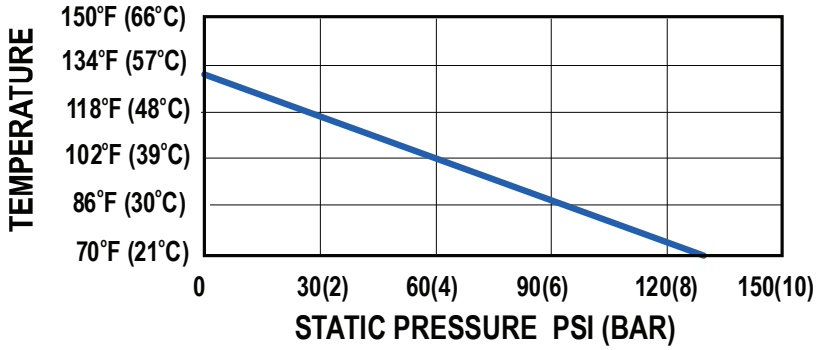
Maximum Working Pressure	130 PSI (8.9 bar) @ 70 ˚F (21 ˚C) (refer to pressure/temp graph)
Maximum Fluid Temperature	130 ˚F (54 ˚C) @ 0 PSI
Full Scale Accuracy	+/- 5%
Calibration Fluid	Water, specific gravity 1.0
Scale Length	5” (127mm)
Environment	Acceptable for direct sunlight exposure
Maximum Pressure Drop	2 PSI
Approximate Shipping Weight	2 lb (.91kg)

Dimensions

Dim	Inch	cm
A	12”	30.5
B	2”	5.1



Maximum Temperature vs. Pressure



Materials of Construction

Wetted Components:	
Meter Body	Cast acrylic rod
Adapters	PVC
Guide Rod Holder	Polysulfone
O-ring Seals	FKM (optional EP)
Float	316SS
Guide Rod	316SS

Output Specifications

Model	Feed Rate		Max Pressure	Max Temperature	Float Material
	GPM	LPM	PSI (bar)	°F (°C)	
F-42025LN	5 - 25	20 - 100	130 (8.9)	130 (54)	316SS
F-42040LN	8 - 40	30 - 150	130 (8.9)	130 (54)	316SS
F-42050LN	10 - 50	40 - 200	130 (8.9) (refer to pressure/temp graph)	130 (54)	316SS

F	F-420 Acrylic Flow Meter

Series

420	F-420 Acrylic Body

Scale

25	5 – 25 gpm (20 – 100 lpm) | 316 Stainless Steel Float
40	8 – 40 gpm (30 – 150 lpm) | 316 Stainless Steel Float
50	10 – 50 gpm (40 – 200 lpm) | 316 Stainless Steel Float

Guide-Wire Material

LN	316 Stainless Steel Rod

Adapter

(Blank)	1.50” Male NPT | PVC
-16	1.00” Female NPT | PVC

O-Ring Material

(Blank)	FKM
-E	EPDM

F	**-**	**420**	**25**	**LN**	**(Blank)**	**(Blank)**	**Sample Model Number**

Additional options include in-house NIST calibration, OEM packaging, silicone oil-free, and bulk packaging.

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ISO 9001:2015 CERTIFIED

SINCE Quality 1957

MADE IN THE USA