

Blue-White[®]

Industries, Ltd.

Variable Area Flow Meters

Engineering and Technical Data

F-400N

1/4", 3/8", 1/2" F/NPT

Rod Guided Float



Features:

- Tough machined acrylic meter body, highly polished to a clear finish.
- Direct reading permanent scale.
- White or yellow back reflector for easy reading.*
- F/NPT adapters with high grade Viton o-ring seals and aluminum "stress ring" thread supports.
- 316 stainless steel or Hastelloy rod guided floats.
- Acceptable in direct sunlight applications.

Materials of Construction:

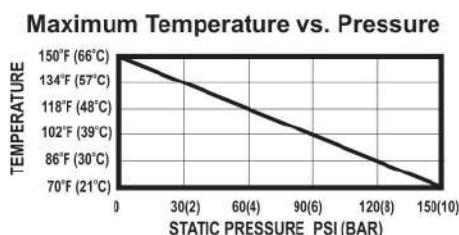
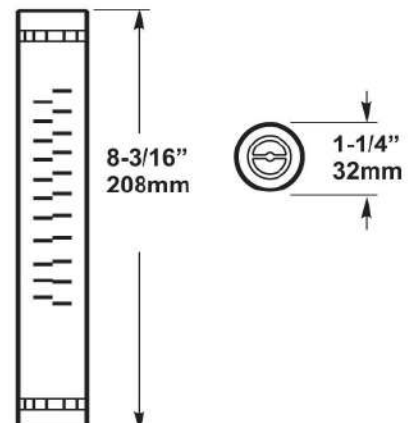
Meter Body:Cast Acrylic Rod
Adapters:Polypropylene
O-ring seals:Viton[®] (optional EP)
Float:
 Standard Series316SS, PVDF or PTFE (varies per model)
 K- SeriesHastelloy, PVDF or PTFE (varies per model)
Guide Rod:
 Standard Series316SS
 K- SeriesHastelloy

* All models are white except F-40250 and F-40375 which are yellow.

Specifications:

Max. working pressure:150 PSI (10.3 bar) @ 70° F (21° C)
Max. Fluid Temperature:
 Polypropylene adapters:150° F (65° C) @ 0 PSI
Full scale accuracy:+/- 5%
Calibration fluid:water, specific gravity 1.0
Scale length:4" (100mm)
Environment:Acceptable for direct sunlight exposure.
Maximum pressure drop:2 PSI
Approximate shipping wt: ...0.5 lb. (.23 kg)

Dimensions:



Installation Requirements:

1. Misalignment will damage the meter!

Flowmeter must be installed in an exact vertical plane to ensure accuracy. Be certain of proper plumbing alignments. Misalignment may cause the oring coils to leak.

2. Pipe dope and glue will damage the meter!

Use only PTFE tape on the threaded attachments. The meter body and plastic fittings cannot tolerate PVC glue or other pipe dope. Even fumes can cause severe damage. If you are installing your flowmeter to a giped pipe configuration, install the flowmeter after all glued fittings are airtight and lines are purged of all fumes. Never hold the meter body with pairs of the tools. **DO NOT OVERTIGHTEN!**

3. Vibration and heavy loads will damage the meter!

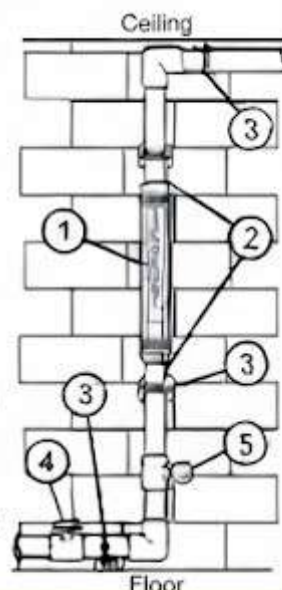
Wall, floor and ceiling mounts and supports must be carefully aligned with the meter body and sturdy enough to support the plumbing and prevent vibration. Never allow the flowmeter to support the weight of related piping.

4. Solenoid valves will damage the meter!

Avoid a system that will impose a sudden burst of flow to the meter. Such a burst will cause the float to impact the float stop with destructive force. Solenoid valves, or other quick opening valves cannot be used unless meter is protected against sudden bursts of flow.

5. High pressures and temperatures will damage the meter!

The maximum acceptable temperature and pressure is interdependent. The maximum acceptable working pressure is also working pressure. (See Temperature vs. Pressure chart). The maximum acceptable fluid temperature is dependent on the actual working pressure. (See Temperature vs. Pressure chart).



Flow Range and Model Options:

Standard Series

- Equipped with 316 SS guide rod - Avoid the meter!

MODEL NUMBER	Flow Scale Range OPM	LPM	Adapter F/NPT	Adapter Material	Float Material
F-40000L4-4	0.055 to 0.300	0.1 to 1.0	1.4"	Polypropylene	PVOF
F-40000L4-4	0.030 to 0.200	0.2 to 1.0	1.6"	Polypropylene	PVOF
F-4056DL4-4	0.050 to 0.300	0.2 to 2.0	1.4"	Polypropylene	S19 SS
F-4056BLN-4	0.050 to 0.300	0.7 to 2.0	3.8"	Polypropylene	S19 SS
F-40275L4-6	0.1 to 1.0	0.4 to 4.0	3.8"	Polypropylene	PTTE
F-40275L4-6	0.1 to 1.0	0.4 to 4.0	3.8"	Polypropylene	PTTE
F-40579L4-6	0.2 to 2.0	1.0 to 7.5	3.8"	Polypropylene	S19 SS
F-40379L4-6	0.2 to 2.0	1.0 to 7.5	3.8"	Polypropylene	S18 SS
F-40279L4-3	0.3 to 2.0	1.9 to 11	1.5"	Polypropylene	S15 SS
F-40323L4-6	0.3 to 2.0	1.0 to 11	1.2"	Polypropylene	S16 SS
F-40800L4-6	0.5 to 2.0	2.0 to 20	3.8"	Polypropylene	S18 SS
F-40800L4-6	0.5 to 5.0	2.0 to 20	1.2"	Polypropylene	S15 SS

K-Series

- Equipped with Hastelloy guide rod

K-Series models are specially copiered for highly corrosive applications.

MODEL NUMBER	Flow Scale Range OPM	LPM	Adapter F/NPT	Adapter Material	Float Material
F-40000LK-4	0.030 to 0.200	0.1 to 1.0	1.4"	Polypropylene	PVOF
F-40025LK-4	0.060 to 0.600	0.2 to 1.0	2.6"	Polypropylene	PVOF
F-40525LK-4	0.050 to 0.800	0.2 to 2.0	1.4"	Polypropylene	Hastelloy
F-40025LK-4	0.030 to 0.500	0.7 to 2.0	2.6"	Polypropylene	Hastelloy
F-40915LK-6	0.1 to 1.0	0.4 to 4.0	3.8"	Polypropylene	PTTE
F-40275LK-6	0.7 to 1.0	0.4 to 4.0	2.5"	Polypropylene	PTTE
F-40575LK-6	0.3 to 2.0	1.0 to 7.5	3.8"	Polypropylene	Hastelloy
F-40575LK-6	0.3 to 2.0	1.0 to 7.5	3.8"	Polypropylene	Hastelloy
F-40521LK-9	0.2 to 3.0	1.0 to 11	1.5"	Polypropylene	Hastelloy
F-40315LK-9	0.3 to 2.0	1.0 to 11	1.5"	Polypropylene	Hastelloy
F-40800LK-6	0.5 to 9.0	2.0 to 20	3.8"	Polypropylene	Hastelloy
F-40000LK-6	0.5 to 5.0	2.0 to 30	1.2"	Polypropylene	Hastelloy

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