

Installation Guideline

Caution: Follow these instructions to avoid failure.

Danger: Wear eye protection when installing or removing flowmeter.

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 o-ring seals to leak. The meterbody material can be damaged by UV rays. **Do not install in direct sunlight.**

2. Pipe dope and glue will damage the meter!

Use only Teflon® tape on the threaded adapters. Polysulfone meter body and fittings cannot tolerate PVC Glue and/or pipe dope. Even fumes can cause severe damage. If you are installing your flowmeter to a glued pipe configuration, install the flowmeter *after* all glued fittings are dried and lines are purged of all fumes. **Never** hold the meter body with pliers or like tools. Union nuts should be hand tightened only. **DO NOT OVER-TIGHTEN!**

3. Vibration and heavy loads will damage the meter!

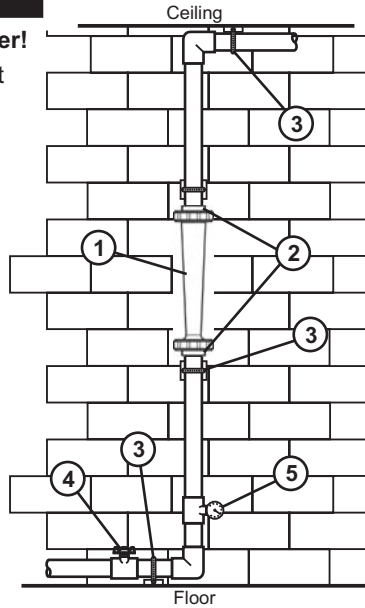
Wall, floor and ceiling mounts and supports must be carefully aligned with the meter body and sturdy enough to support the plumbing and prevent vibration. Never allow the flowmeter to support the weight of related piping.

4. Solenoid valves will damage the meter!

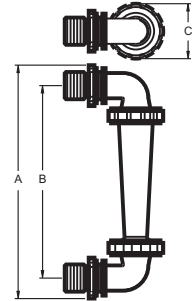
Avoid a system that will impose a sudden burst of flow to the meter. Such a burst will cause the float to impact the float stop with destructive force. Solenoid valves, or other quick opening valves cannot be used unless meter is protected against sudden bursts of flow.

5. High pressures and temperatures will damage the meter!

The maximum acceptable temperature and pressure is interdependent. The maximum acceptable working pressure is dependant on the actual fluid temperature. The maximum acceptable fluid temperature is dependant on the actual working pressure. (see Temperature Vs. Pressure chart).



Dimensions Inline Models	
A	B
14-1/2"	3-5/16"



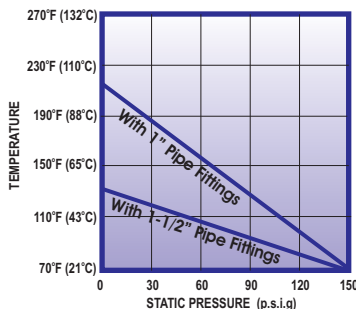
Dimensions Panel Mount Models		
A	B	C
17"	15"	3-5/16"

F-451 Series Parts

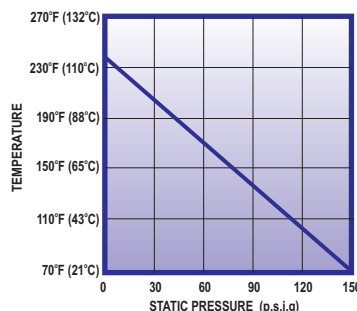
Part Number	Description
F-45038N	Union Nut
F-45030N	Adapter, Inline, 1" F/NPT, Polysulfone
F-45047N	Adapter, Inline, 1" F/NPT, Brass
F-45039N	Adapter, Inline, 1" sweat, Brass
76000-967	Adapter, Inline, 1-1/2" F/NPT, PVC
F-45031	Adapter, 90° Panel Elbow, 1" F/NPT, Polysulfone
F-45032	Lock nut for Panel elbow
2-136V	O-ring, Viton
F-45025	Wireholder, .5-6, 1-10, 2-20 gpm, 8-80 scfm
F-45025-2	Wireholder, 3-30, 4-40 gpm
F-45028	Guide Rod, 316 SS, .5-6, 1-10, 2-20 gpm, 8-80 scfm
F-45028-2	Guide Rod, 316 SS, 3-30, 4-40 gpm
F-45028H	Guide Rod, Hast., .5-6, 1-10, 2-20 gpm, 8-80 scfm
F-45028H-2	Guide Rod, Hast., 3-30, 4-40 gpm
F-45034S	Shield, Polycarbonate
F-45034	Shield retainer adapter

Maximum Temperature vs. Pressure

F-451 Standard Meters



F-451 SolarMeters®



Blue-White
Industries, Ltd.