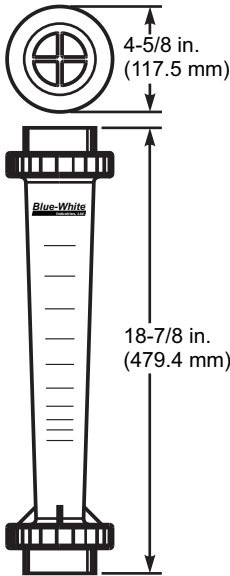


Installation Instructions

F-452N



Materials of Construction

Meter Body:	Polysulfone
Float:	#316 Stainless Steel or PTFE or Hastelloy C-276 (Based on model)
Guide rod:	# 316 Stainless (opt. Hastelloy C-276)
Adapters:	Polysulfone
Wireholder:	Polysulfone
Float Stop:	Polyethylene
Union Nuts:	Nylon
O-Rings:	Viton
Scale:	Permanent, dual scale silkscreen (black ink)
Accuracy:	± 2% of full scale reading

Your Blue-White® F-452N Series

- Your Blue-White® flowmeter was designed to be easy to install.
- Please read the Instruction Guideline on the next page before installing your flowmeter.
- This flowmeter is an instrument, special care should be taken when handling and installing.

Inspection of the Flowmeter and Compatibility

- Check for damage while unpacking the flowmeter.
- Remove any instruction sheets and shipping materials that may have been inserted into the meter body for shipping reasons.
- Remove the box containing the float. Note the up position of the float before removing the float from the meter body (tube). The float must be installed in the same direction when re-assembling the flowmeter.
- Remove the pipe fitting adapters with o-rings and the union nuts. Note the proper location of the o-ring in the groove. Be sure the o-ring is properly seated during installation.
- Be sure the meter and the materials of construction are suitable for your application.
- The maximum temperature and pressure is shown on the following pages.
- Although the meter may be suitable for use with other fluids, Blue-White® meters are tested with water only. If you are not sure that the meter is compatible with your fluid, consult the factory.
- The meter can be damaged by UV light. Do not install the meter in direct sunlight.
- **Blue-White® guarantees the meter is suitable with water only.**



Installation Guideline

Caution: Follow these instructions to avoid failure.

Danger: Wear eye protection when installing or removing flowmeter.

1. Flowmeter must be installed in an exact vertical plane to ensure accuracy.

Be certain of proper plumbing alignments. 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 PTFE 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!**

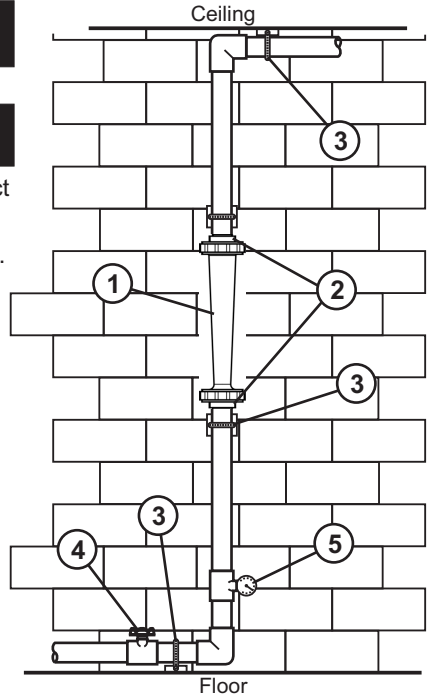
3. Wall, floor and ceiling mounts and supports are to be carefully aligned and sturdy. Wall, floor and ceiling supports are recommended as needed. This is to maintain pipe alignment and to prevent vibration.

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.

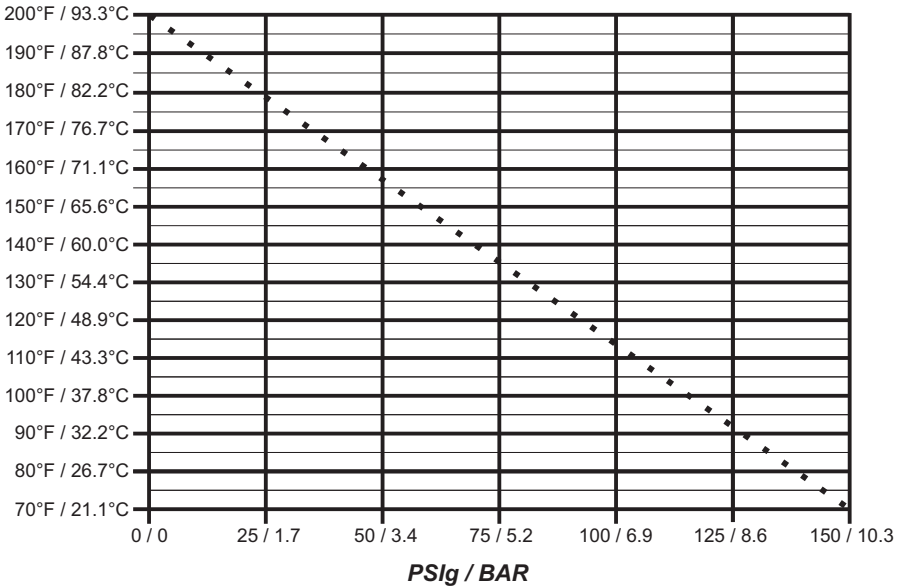
5. **High pressures and temperatures will damage the meter!**

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



Maximum Temperature vs. Pressure

Temperature



Pressure and Temperature

Pressure and temperature limits are inversely proportional. At the maximum suggested pressure the temperature should approach 70°F / 21.1°C; at the maximum suggested temperature the pressure should approach zero psi. We cannot guarantee our flowmeters will not be damaged either at or below the suggested limits simply because of many factors which influence meter integrity; stress resulting from meter misalignment, damage due to excessive vibration and/or deterioration caused by contact with certain chemicals as well as direct sunlight. These situations and others tend to reduce the strength of the materials from which the meters are manufactured.

Application Note

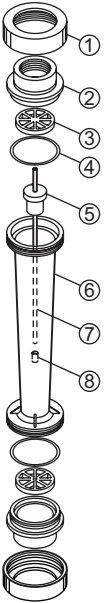
Flowmeters are tested and calibrated for water only.

Although meters may be suitable for other chemicals, Blue-White cannot guarantee their suitability. It is the responsibility of the user to determine the suitability of the flowmeter in their application.

Maintenance

The "Exploded View" drawing illustrates assembly of the F-452N series meter. If your flowmeter needs to be cleaned refer to this drawing when reassembling the unit. The tapered tube may be cleaned with a soft bottle brush. Use a MILD soap and water solution for cleaning purposes. Hard water deposits can be removed with a 5% acetic acid solution (vinegar). Note the floats "up" position.

F-452N Exploded View and Parts List



Item	Catalog Number	Description	Amount
1	F-452004N	Union Nut, Nylon	2
2	F-452330N	Adapter, 2" FNPT, Polysulfone	2
3	F-452002	Wireholder, Polysulfone	2
4	F-452043N	O-ring, Viton	2
5	Float	2 - 20 GPM, PTFE 4 - 40 SCFM, PTFE 40 - 240 SCFM, Stainless Steel 6 - 60 GPM, Stainless Steel 8 - 80 GPM, Stainless Steel 6 - 100 GPM, Stainless Steel 20 - 130 GPM, Stainless Steel 25 - 175 GPM, Stainless Steel 6 - 60 GPM, Hastelloy 8 - 80 GPM, Hastelloy 6 - 100 GPM, Hastelloy	1
6	Meterbody	Polysulfone	1
7	F-452287N F-452333N	Guide Wire, Stainless Steel Guide Wire, Hastelloy	1
8	F-452332	Float Stop, Polyethylene	1

BLUE-WHITE INDUSTRIES LIMITED WARRANTY

FLOWMETERS are warranted to be free of defects in material and workmanship for up to 12 months from the date of factory shipment. Warranty coverage is limited to repair or replacement of the defective flowmeter only. Blue-White Industries does not assume responsibility for any other damage that may occur.

This warranty does not cover damage to the flowmeter that results from misuse or alterations, nor damage that occurs as a result of: meter misalignment, improper installation, over tightening, use of non-recommended chemicals, use of non-recommended adhesives or pipe dopes, excessive heat or pressure, or allowing the meter to support the weight of related piping. Flowmeters are tested and calibrated with water only. Although meters may be suitable for other chemicals, Blue-White cannot guarantee their suitability.

Flowmeters are repaired at the factory only. Call or write the factory to receive a Return Authorization Number, carefully pack the flowmeter to be returned, including a brief description of the problem. Note the RA number on the outside of the carton.

BLUE-WHITE INDUSTRIES

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