

# SUPERIOR

## Quality, Style, Performance

### F-400N Series In-Line Flowmeters

Blue-White's thoughtfully designed and carefully engineered F-400N Series feature Superior Styling, Quality Materials of Construction, and are offered with a Variety of Options.

F-400N Series variable area flowmeters are machined of high performance acrylic, which is hand polished to a clear finish. Design features include: Corrosion and wear resistant internal parts, sturdy well-built adapters, and Viton® o-ring seals. Permanent scales are screen printed onto the meter body, directly in front of the float for easy reading.

The most recent addition to the Series is the F-420N units. The F-420N meters are manufactured of the same high quality materials as F-400N units however, they have much higher flow capacity and, are equipped with M/NPT adapters.

Because of it's versatile styling, dependable performance and long service life, the F-400N Series is a very popular choice with OEM's. If you don't see the unit here that suits your system requirements, please contact our helpful sales professionals for assistance.

#### Benefits Include:

- Tough machined acrylic meter body, highly polished to a clear finish
- Sturdy adapters with high grade Viton® o-ring seals
- #316 Stainless Steel float guide and, floats of either Stainless Steel or PVC. Float material depends on meter calibration. Hastelloy C is available as an option on some units.
- Optional High/Low Level Alarm
- Individual Packaging
- OEM options, such as private labeling, alternate materials of construction and custom calibrations may be available. Contact the factory, or your authorized representative for information and quotation.

#### F-420N Specifications

Temperature	150°F/65°C @ 0 pressure
Pressure	150 psig/10.3 Bar @ 70°F/21°C
Full Scale Accuracy	± 5%
Meter Body Material	Machined Acrylic
Adapter Material	Polypropylene reinforced with aluminum stress rings
O-rings	Viton®
Float Material	#316 SS, PVC, Hastelloy C, depending on calibration
Max. Pressure Drop	2 psi

#### HIGH/LOW LEVEL ALARMS

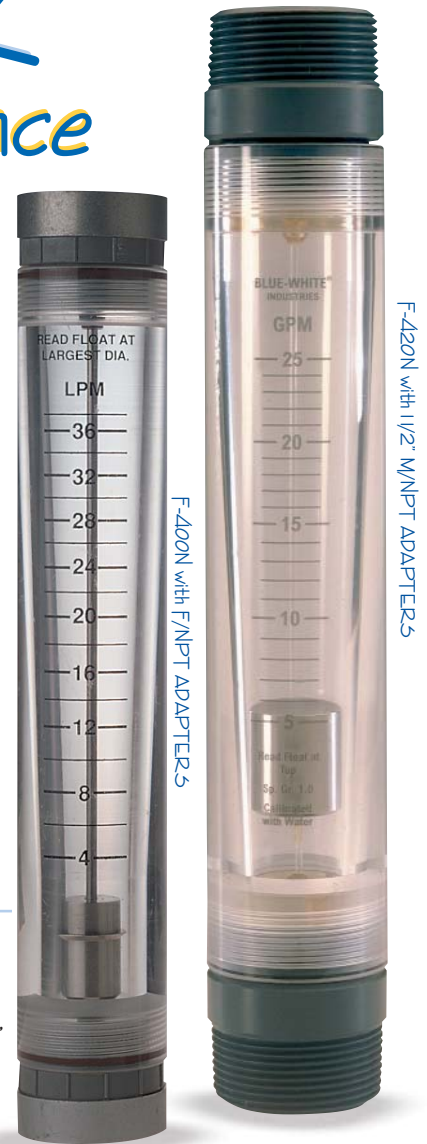
F-400N Series flowmeters with flow rates of 0.2 to 2 GPM, 0.5 to 5.0 GPM, 1.0 to 10 GPM and 2.0 to 12 GPM, with adapters in 3/4" or 1" F/NPT, may be ordered with an optional High/Low Level alarm.

#### Applications Include:

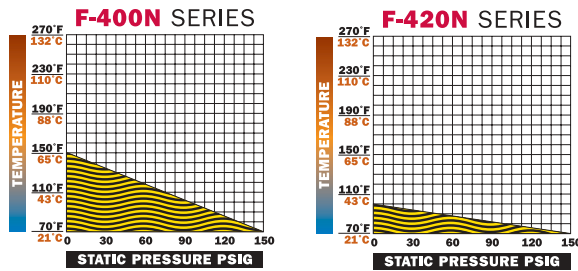
- Water and Waste Water Treatment Equipment
- Pollution Monitoring and Control Equipment
- R.O. Water Systems
- Chemical Processing Equipment
- Filtration Systems
- Film Processing Equipment
- Many other systems where a high quality, accurate flowmeter is required

#### F-400N Specifications

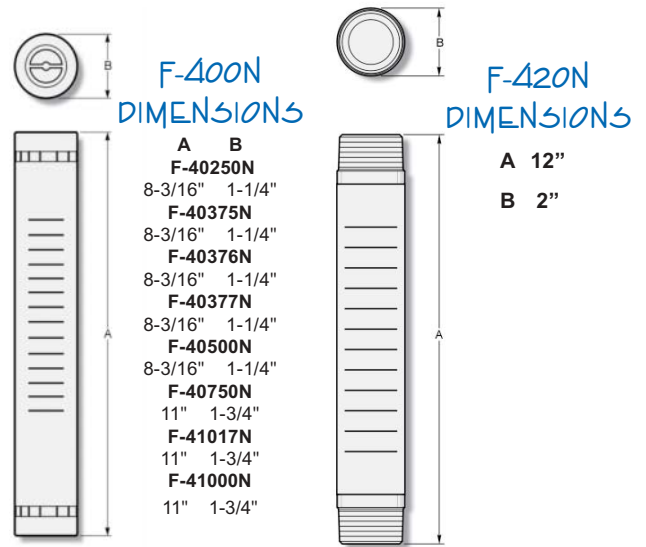
Temperature	100°F/37°C @ 0 pressure
Pressure	150 psig/10.2 Bar @ 70°F/21°C
Full Scale Accuracy	± 5%
Meter Body Material	Machined Acrylic
Adapter Material	PVC
O-rings	Viton®
Float Material	#316 SS



# TEMPERATURE VS. PRESSURE DIAGRAM\*



\* Pressure and temperature limits are inversely proportional. At the maximum suggested pressure the temperature should approach 70°F; 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 deterioration caused by contact with certain chemicals, to name a few. These situations and others tend to reduce the strength of the materials from which the meters are manufactured. Use these charts as a general guideline only.



## F-400N ORDERING GUIDELINES STANDARD IN-LINE UNITS

MODEL NUMBER	CALIBRATION GPM	CALIBRATION LPM	FLOAT MATERIAL	ADAPTER SIZE
F-40250LN-4	0.025 to 0.250	0.1 to 1.0	#316 S.S.	1/4" F/NPT
F-40250LN-6	0.025 to 0.250	0.1 to 1	#316 S.S.	3/8" F/NPT
F-40375LN-6	0.1 to 1.0	0.4 to 4.0	PVC	3/8" F/NPT
F-40375LN-8	0.1 to 1.0	0.4 to 4.0	PVC	1/2" F/NPT
F-40376LN-6	0.2 to 2.0	1.0 to 7.5	#316 S.S.	3/8" F/NPT
F-40376LN-8	0.2 to 2.0	1.0 to 7.5	#316 S.S.	1/2" F/NPT
F-40377LN-6	0.3 to 3.0	1.5 to 11.5	#316 S.S.	3/8" F/NPT
F-40377LN-8	0.3 to 3.0	1.5 to 11.5	#316 S.S.	1/2" F/NPT
F-40500LN-6	0.5 to 5.0	2.0 to 20	#316 S.S.	3/8" F/NPT
F-40500LN-8	0.5 to 5.0	2.0 to 20	#316 S.S.	1/2" F/NPT
F-40750LN-12	1.0 to 10	4.0 to 38	#316 S.S.	3/4" F/NPT
F-40750LN-16	1.0 to 10	4.0 to 38	#316 S.S.	1" F/NPT
F-41017LN-12	1.0 to 17	4.0 to 64	#316 S.S.	3/4" F/NPT
F-41017LN-16	1.0 to 17	4.0 to 64	#316 S.S.	1" F/NPT
F-41000LN-12	2.0 to 20	8.0 to 80	#316 S.S.	3/4" F/NPT
F-41000LN-16	2.0 to 20	8.0 to 80	#316 S.S.	1" F/NPT

NOTE: Models listed above are "LN" (#316 SS float material or PVC float material). Change the N in the model number to K for Hastelloy C float material, i.e. F-41000LK-16

## F-400N ORDERING GUIDELINES FOR USE WITH AIR (STP)

MODEL NUMBER	CALIBRATION SCFM	FLOAT MATERIAL	ADAPTER SIZE
F-40376GN-6	0.75 to 7.5 SCFM	#316 S.S.	3/8" F/NPT
F-40376GN-8	0.75 to 7.5 SCFM	#316 S.S.	1/2" F/NPT
F-40750GN-12	4.0 to 45.0 SCFM	#316 S.S.	3/4" F/NPT
F-40750GN-16	4.0 to 45.0 SCFM	#316 S.S.	1" F/NPT

## F-400N ORDERING GUIDELINES FOR USE WITH HIGH/LOW LEVEL ALARM

MODEL NUMBER	CALIBRATION GPM	CALIBRATION LPM	FLOAT MATERIAL	ADAPTER SIZE
FA-41376LN-12	0.2 to 2.0	1.0 to 8.0	PVC	3/4" F/NPT
FA-41500LN-12	0.5 to 5.0	2.0 to 20	PVC	3/4" F/NPT
FA-41500LN-16	0.5 to 5.0	2.0 to 20	PVC	1" F/NPT
FA-41000LN-12	2.0 to 20	8.0 to 80	#316 S.S.	3/4" F/NPT
FA-41000LN-16	2.0 to 20	8.0 to 80	#316 S.S.	1" F/NPT

## F-420N ORDERING GUIDELINES SINGLE SCALE U.S. GALLONS PER MINUTE

MODEL NUMBER	FLOW RANGE GPM	FLOAT MATERIAL	ADAPTER SIZE
F-42025LN	5 to 25	#316 S.S.	1-1/2" M/NPT
F-42040LN	8 to 40	#316 S.S.	1-1/2" M/NPT
F-42050LN	10 to 50	#316 S.S.	1-1/2" M/NPT

## F-420N ORDERING GUIDELINES SINGLE SCALE LITERS PER MINUTE

MODEL NUMBER	FLOW RANGE LPM	FLOAT MATERIAL	ADAPTER SIZE
F-42025LM	20 to 100	#316 S.S.	1-1/2" M/NPT
F-42040LM	30 to 150	#316 S.S.	1-1/2" M/NPT
F-42050LM	40 to 180	#316 S.S.	1-1/2" M/NPT

# Blue-White®

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