

The SolarMeter®

by **Blue-White®**

Blue-White® manufactures a full line of Top Quality flowmeters designed for use in Solar Applications.

The Superior SolarMeter® line assist users in fine tuning Solar Systems to ensure optimum water or transfer fluid contact time through Solar Panels. Without the use of a SolarMeter®, energy loss might well exceed 50%. In addition, The SolarMeter® is an excellent troubleshooting device. It can warn of blockage in the system or possible malfunctions in the circulating pump.

BENEFITS INCLUDE

- Heat Resistant* Polysulfone Meter Bodies.
- Tough Brass Sweat or Brass MPT Connections.
- Sturdy Half Union Nuts Couple the Meter Body to the Connectors.
- #316 Stainless Steel Float guide rods.
- Low Pressure Drop.
- Drain back feature.
- Permanent, easy to read scales.
- Simple to install, low maintenance.



THE F-440 SERIES SolarMeter®

Compact & Efficient with an Excellent Price Point

F-440 SOLARMETER® FEATURES

- Tough Polysulfone meter body resists high temperatures and pressures.*
- Brass adapters with MPT or Sweat connections.
- Brass half unions.
- Direct reading permanent scale.
- #316 stainless steel float guide rods.
- Not recommended for direct sunlight.
- Available OEM options: Private labeling, custom calibrations, custom materials.

F-440 SOLARMETER® SPECIFICATIONS

Max. Working Pressure 175 psig (12.0 bar) @ 70° F (21° C)
 Max. Fluid Temperature 240° F (115° C) @ 0 PSI
 Full Scale Accuracy ± 4%
 Meter Body Material Polysulfone
 Adapter Material Brass
 O-Rings FKM (optional EP)
 Approx. Shipping Weight..... 1/2 lb. (.23 kg)
 NIST certificate optional

PIPE SIZES

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

DIMENSIONS

3/8" PIPE SIZE

Height: 6-3/16" • Width: 1-11/16"

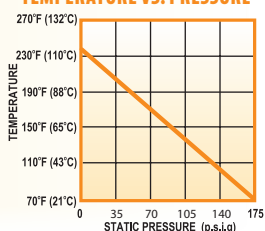
1/2" PIPE SIZE

Height: 6-3/16" • Width: 1-11/16"

3/4" PIPE SIZE

Height: 7-1/2" • Width: 2"

TEMPERATURE VS. PRESSURE



F-440 SOLARMETER® ORDERING GUIDELINES

STANDARD LIQUID MODELS WITH BRASS ADAPTERS

MODEL NUMBER	Pipe Size	DUAL SCALE RANGE		Float Material
		GPM	LPM	
F-44375LB-7	3/8" F/NPT	0.1 to 1.0	0.4 to 4.0	316 SS
F-44375LB-(*)	1/2" M/NPT or Sweat	0.1 to 1.0	0.4 to 4.0	316 SS
F-44376LB-7	3/8" F/NPT	0.2 to 2.0	0.8 to 8.0	316 SS
F-44376LB-(*)	1/2" M/NPT or Sweat	0.2 to 2.0	0.8 to 8.0	316 SS
F-44500LB-7	3/8" F/NPT	0.5 to 5.0	1.8 to 18.0	316 SS
F-44500LB-(*)	1/2" M/NPT or Sweat	0.5 to 5.0	1.8 to 18.0	316 SS
F-44750LB-(**)	3/4" M/NPT or Sweat	1.0 to 10.0	5.0 to 37.5	316 SS

F-44330LB-7	3/8" F/NPT	3.0 to 30.0	10 to 110	PTFE
F-44330LB-(*)	1/2" M/NPT or Sweat	3.0 to 30.0	10 to 110	PTFE
F-44560LB-7	3/8" F/NPT	5.0 to 60.0	20 to 220	316 SS
F-44560LB-(*)	1/2" M/NPT or Sweat	5.0 to 60.0	20 to 220	316 SS

MODEL Variations

*9 = Male NPT Model **13 = Male NPT Model
 *8 = Sweat Model **12 = Sweat Model



* The factory does not guarantee their flowmeters for use with liquids other than water. Customers are required to do their own compatibility testing. Request Kit #70000-718, at no charge.

THE F-450 SERIES SolarMeter®



F-450 SOLARMETER® FEATURES

- Tough Polysulfone meter body resists high temperatures and pressures.*
- Brass adapters with MPT or Sweat connections.
- Brass half unions.
- Direct reading permanent scale.
- #316 stainless steel float guide rods.
- Not recommended for direct sunlight.
- Available OEM options:
Private labeling, custom calibrations, custom materials.

F-450 SOLARMETER® SPECIFICATIONS

Max. Working Pressure 175 psig (12.0 bar) @ 70° F (21° C)
 Max. Fluid Temperature 240° F (115° C) @ 0 PSI
 Full Scale Accuracy ± 4%
 Meter Body Material Polysulfone
 Adapter Material Brass
 O-Rings FKM (optional EP)
 Approx. Shipping Weight 1/2 lb. (.23 kg)
 NIST certificate optional

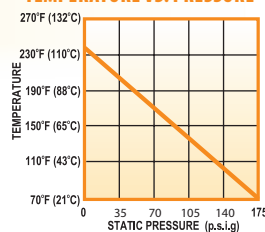
DIMENSIONS

MODEL	HEIGHT	WIDTH
F-45375***-6	8-3/8"	2"
F-45375***-8	8-7/8"	2"
F-45376***-6	8-3/8"	2"
F-45376***-8	8-7/8"	2"
F-45500***-6	8-3/8"	2"
F-45500***-8	8-7/8"	2"
F-45500***-12	9-3/8"	2"
F-45750***-12	10"	2"

PIPE SIZES

1/2", 3/4" M/NPT
 1/2", 3/4" SWEAT

TEMPERATURE VS. PRESSURE



F-450 SOLARMETER® ORDERING GUIDELINES

STANDARD LIQUID MODELS WITH BRASS ADAPTERS

MODEL NUMBER	Pipe Size	DUAL SCALE RANGE GPM	DUAL SCALE RANGE LPM	Float Material
F-45375LB-(*)	1/2"	.1 to 1	.4 to 4	PTFE
F-45376LB-(*)	1/2"	.2 to 2	1 to 7.5	316 SS
F-45500LB-(*)	1/2"	.5 to 5	2 to 20	316 SS
F-45500LB-(**)	3/4"	.5 to 5	2 to 20	316 SS
F-45750LB-(**)	3/4"	1 to 10	4 to 40	316 SS

MODEL Variations

*9 = Male NPT Model **13 = Male NPT Model
 *8 = Sweat Model **12 = Sweat Model

THE F-451 SERIES SolarMeter®

F-451 SOLARMETER® FEATURES

- Tough Polysulfone meter body resists high temperatures and pressures.*
- Brass adapters with MPT or Sweat connections.
- Brass half unions.
- #316 stainless steel float guide rods.
- Direct reading permanent scale.
- Not recommended for direct sunlight.
- Available OEM options:
Private labeling, custom calibrations, custom materials.

F-451 SOLARMETER® SPECIFICATIONS

Max. Working Pressure 150 psig (10.0 bar) @ 70° F (21° C)
 Max. Fluid Temperature 240° F (115° C) @ 0 PSI
 Full Scale Accuracy ± 4%
 Meter Body Material Polysulfone
 Adapter Material Brass
 O-Rings FKM
 Float Material #316 SS
 Approx. Shipping Weight 3 lb. (1.36 kg)
 NIST certificate optional

DIMENSIONS

Height: 14-1/2"
 Width: 3-5/16"

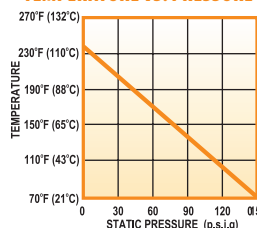
PIPE SIZES

1" F/NPT

F-451 SOLARMETER® ORDERING GUIDELINES

MODEL NUMBER	DUAL SCALE RANGE GPM	DUAL SCALE RANGE LPM
F-451006LH	.5 to 6	2 to 22
F-451001LH	1.0 to 10	4 to 40
F-451002LH	2.0 to 20	7.5 to 75
F-451003LH	3.0 to 30	12 to 115
F-451004LH	4.0 to 40	15 to 155

TEMPERATURE VS. PRESSURE



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