

POLYSULFONE VARIABLE AREA FLOWMETERS

VERSATILE F-451 SERIES

F-451 BENEFITS

- A Heat and Chemical resistant meter body of injection molded Polysulfone.*
- Floats are #316 S.S. or Teflon, depending on calibration.
- Many calibrations are offered in GPM, LPM and SCFM.
- Permanent, easy to read screen printed scales.
- 1" F/NPT Polysulfone adapters, or 1 1/2" PVC adapters (depending on model ordered).
- Viton® o-ring seals.
- Accuracy ± 3%.
- May be ordered with 90° elbow adapters.
- Available with brass sweat or brass 1" F/NPT adapters.
- Available with Polycarbonate Protective Shield.
- Not recommended for direct sunlight applications.

F-451 SPECIFICATIONS

Max. Working Pressure..... 150 psi (10 Bar) @ 70°F (21°C)
 Max. Fluid Temperature..... 212°F (100°C) @ 0 pressure
 Full Scale Accuracy..... ± 3%
 Meter Body Material..... Polysulfone
 Adapter Material..... 1" Polysulfone & 1 1/2" PVC
 O-Rings..... Viton®
 Float Material..... #316 SS, Hastelloy Cor Teflon, depending on calibration.
 Max. Pressure Drop..... 1 psi
 Approx. Shipping Weight.... 3 lbs. (1.36 kg)

PIPE SIZES

1", 1-1/2 F/NPT

DIMENSIONS

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

FLOW RATES

0.5 to 40 GPM
 2 to 155 LPM
 4 to 80 SCFM
 7 to 140 M3/Hr

F-451 ORDERING GUIDELINES

MODEL NUMBER	CALIBRATION		ADAPTER SIZE
	GPM	LPM	
F-451006LHN	0.5 to 6	to 22	1" F/NPT
F-451001LHN	1.0 to 10	4 to 40	1" F/NPT
F-451002LHN	2.0 to 20	7.5 to 75	1" F/NPT
F-451003LHN	3.0 to 30	12 to 115	1" F/NPT
F-451004LHN	4.0 to 40	15 to 155	1" F/NPT

1-1/2" F/NPT PVC Adapters

MODEL NUMBER	CALIBRATION		ADAPTER SIZE
	GPM	LPM	
F-451006LHN-24	0.5 to 6	to 22	1-1/2" F/NPT
F-451001LHN-24	1.0 to 10	4 to 40	1-1/2" F/NPT
F-451002LHN-24	2.0 to 20	7.5 to 75	1-1/2" F/NPT
F-451003LHN-24	3.0 to 30	12 to 115	1-1/2" F/NPT
F-451004LHN-24	4.0 to 40	15 to 155	1-1/2" F/NPT

Models calibrated for Air

MODEL NUMBER	CALIBRATION		ADAPTER SIZE
	GPM	LPM	
F-451001GHN	4 to 40	7 to 70	1" F/NPT
F-451001GHN-24	4 to 40	7 to 70	1-1/2" F/NPT
F-451002GHN	8 to 80	14 to 140	1" F/NPT
F-451002GHN-24	8 to 80	14 to 140	1-1/2" F/NPT



F-451 with Protective Shield

HIGH CAPACITY F-452N SERIES

F-452N BENEFITS

- One piece Polysulfone meter body resists high temperatures and pressures.*
- 316 Stainless Steel or Hastelloy rod guided float.
- Direct reading permanent scale.
- Adapters and unions engineered for maximum protection from misalignment and vibration.
- Optional Polycarbonate Protective Shield.
- Available OEM options: Private labeling, custom calibrations and custom materials.
- Not recommended for direct sunlight.

F-452N SPECIFICATIONS

Max. Working Pressure..... 150 psig (10.3 bar) @ 70°F (21°C)
 Max. Fluid Temperature..... 200°F (93°C) @ 0 PSI
 Full Scale Accuracy..... +/- 2%
 Meter Body Material..... Polysulfone
 Union Nuts..... Glass fiber reinforced Nylon
 Guide Rod Material..... 316 Stainless Steel
 Options: Hastelloy C-276
 O-Ring Material..... Viton®; Options: EPDM
 Max. Pressure Drop..... 2 psi
 Approx. Shipping Weight.... 5 lb. (2.27 kg)

PIPE SIZES

2" F/NPT

DIMENSIONS

Height: 18-7/8"
 Width: 4-5/8"

FLOW RATES

2 to 175 U.S. GPM
 8 to 675 LPM
 4 to 240 SCFM
 7 to 400 M3/Hr

F-452 ORDERING GUIDELINES

MODEL NUMBER	DUAL SCALE RANGE		ADAPTER SIZE
	GPM	LPM	
F-452020LHN	2 to 20	8 to 78	2" F/NPT
F-452060LHN	6 to 60	30 to 230	2" F/NPT
F-452080LHN	8 to 80	40 to 300	2" F/NPT
F-452100LHN	6 to 100	20 to 380	2" F/NPT
F-452130LHN	20 to 130	80 to 500	2" F/NPT
F-452175LHN	25 to 175	100 to 675	2" F/NPT

Models calibrated for Air

MODEL NUMBER	DUAL SCALE RANGE		ADAPTER SIZE
	SCFM	M3/hr	
F-452040GHN	4 to 40	7 to 67	2" F/NPT
F-452250GHN	40 to 240	70 to 400	2" F/NPT

* Viton® is a registered trademark of DuPont.

* 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.