



Single-Use PVDF Tubeholder Flow Sensor

The Equiflow PVDF Tubeholder Flow Meter is a larger-sized, firm, and stable model designed for easy exchange of wetted parts. It utilizes an infrared (IR) turbine rotor reflection mechanism, ensuring accurate and repeatable flow measurements. Constructed from PVDF (polyvinylidene fluoride) material, it can handle a wide range of liquids, including corrosive and aggressive substances. With its easy installation process, the sensor adapts seamlessly to various applications. Additionally, the tube can be sterilized up to 50 kGy.

SPECIFICATIONS	0045	0085	0125	0250
Inner diameter	4.6 mm (0.18")	9.3 mm (0.37")	14.0 mm (0.55")	25.4 mm (1")
Linear flow range	0.1 – 2.0 L/min (0.03 – 0.53 GPM)	1.0 – 20.0 L/min (0.26 – 5.28 GPM)	3.0 – 40.0 L/min (0.79 – 10.57 GPM)	10.0 – 200.0 L/min (10.64 – 52.83 GPM)
Minimum flow	0.03 L/min (0.008 GPM)	0.5 L/min (0.13 GPM)	1.5 L/min (0.40 GPM)	3.0 L/min (0.79 GPM)
Accuracy	1% of reading	1% of reading	1% of reading	5% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%	< 0.15%
Wetted materials	PVDF, Ruby	PVDF, Ruby	PVDF, Ruby	PVDF, Ruby
Process connection	7 mm hose barb or 1/8" NPT	12 mm hose barb or 1/2" NPT	19.5 mm hose barb	32 mm hose barb
Recommended tubing size for hose barb	6 mm (1/4") ID	9 mm (3/8") ID or 12.5 mm (1/2") ID	19 mm (3/4") ID	30 mm (1.18") ID
Liquid temperature	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)
Max. pressure at 20°C (68°F)	25 Bar (362 psi)	20 Bar (290 psi)	10 Bar (145 psi)	10 Bar (145 psi)
Viscosity	0.8 – 10 Cp	0.8 – 10 cP	0.8 – 10 cP	0.8 – 10 cP
Approx. K-factor (P = pulses)	100,000 P/L (377,000 P/G)	4,800 P/L (18,000 P/G)	1,800 P/L (6,800 P/G)	250 P/L (940 P/G)
Power supply	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc
Output signal	5 - 24 V SQW	5 - 24 V SQW	5 - 24 V SQW	5 - 24 V SQW
Power consumption	34 mA at 5 V	34 mA at 5 V	34 mA at 5 V	34 mA at 5 V
Default cable	PVC 1 meter (39.37")	PVC 1 meter (39.37")	PVC 1 meter (39.37")	PVC 1 meter (39.37")

All data are derived from tests conducted under ideal laboratory conditions using water. Specifications may vary depending on local process conditions.

Features & Benefits

- Infrared (IR) turbine rotor reflection results in accurate and repeatable flow measurements
- Solid model with four screw gaps for easy mounting
- USP Class VI PVDF material can be gamma sterilized up to 50 kGy
- High resolution square wave output
- Tubes can be sterilized up to 150°C (302 °F)
- Reduce down-time and prevent cross-contamination
- Each sensor is pre-calibrated to reach <1% accuracy

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