



EQUFLOW[®]
SENSORS

When every drop counts

Single-Use PVDF Tubeholder Flowmeter

Most Commonly Used in Biopharma Applications

Our disposable flowmeters are designed for a fast and easy exchange of the wetted parts. These solutions are very affordable as the housing, including sensor electronics, can be re-used and only the wetted parts will be exchanged. Despite the term "single-use", these flowmeters are mechanically the same as the standard series flowmeters and are therefore suitable for long-term use, providing high accuracy.

MODEL	0045 Low Flow	0045	0085	0125	0250
Inner diameter	4.6 mm (0.18")	4.6 mm (0.18")	9.3 mm (0.37")	14.0 mm (0.55")	25.4 mm (1")
Linear flow range	0.07-1.0 L/min (0.02-0.26 GPM)	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	0.02 L/min (0.005 GPM)	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	1% of reading	1% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%	< 0.15%	< 0.15%
Wetted materials	PVDF, Ruby	PVDF, Ruby	PVDF, Ruby	PVDF, Ruby	PVDF, Ruby
Tube connection	7 mm hose barb or 1/8" NPT	7 mm hose barb or 1/8" NPT	12 mm or 13 mm hose barb	19 mm hose barb	32 mm hose barb
Recommended tube size for hose barb	6 mm (1/4") hose barb	6 mm (1/4") hose barb	9 mm (3/8") or 12.5 mm (1/2") hose barb	19 mm (3/4") hose barb	30 mm (1 1/16") hose barb
Tube length	53 mm (2.86")	53 mm (2.86")	62 mm (2.44")	84 mm (3.31")	90 mm (3.54")
Liquid temp.	-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)	-20°C to 80°C (-4°F to 176°F)
Max. pressure at 20°C	25 Bar (362 psi)	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	0.8-10 cP
Approx. K-factor (P = pulses)	130,000 P/L (490,000 P/G)	100,000 P/L (377,000 P/G)	4,800 P/L (18,000 P/G)	1,800P/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	5-24 Vdc
Output signal	5-24 V SQW	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	34 mA at 5 V
Default cable	PVC 1 m (39.37")	PVC 1 m (39.37")	PVC 1 m (39.37")	PVC 1 m (39.37")	PVC 1 m (39.37")

Features / Benefits

- Solid model with four screw gaps for easy mounting
- PVDF models are gamma stable up to 50 kGy
- Mechanically strong PVDF material
- Reduce down time and prevent cross-contamination
- Various validation documents available (including US)
- Pharmacopeia (Class VI)
- High resolution square wave output
- Measuring with revolutionary infrared turbine rotor reflection
- Suitable for opaque liquids
- Tubes can be sterilized up to 150°C (302°F)

Typical Applications

- Monitoring and controlling the flow
- Dosing operations
- Filling operations



All data based on water and under ideal laboratory test conditions. The specifications can vary among the different local process conditions. Other specifications on request | Patent US5388466 | Subject to change without notice | V1.0-2022

Saint-Gobain Life Sciences Global Manufacturing Facilities



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Voorschakelstraat 8,5349CC
Oss, The Netherlands
Tel: +31 85 0495140
Email: info@equiflow.com

www.equiflow.com

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