



When every drop counts



Single-Use PVDF Clip Mounting Flowmeter

For Flexible Use, Easy to Install Model

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
Inner diameter	4.6 mm (0.18")	4.6 mm (0.18")	9.3 mm (0.37")
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)
Minimum flow	0.02 L/min (0.005 GPM)	0.03 L/min (0.008 GPM)	0.5 L/min (0.13 GPM)
Accuracy	1% of reading	1% of reading	1% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%
Wetted materials	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 hose barb or 13 mm hose barb
Recommended tube size for hose barb	6 mm (1/4")	6 mm (1/4")	9mm (3/8") or 12.5mm (1/2")
Tube length	53 mm (2.86")	53 mm (2.86")	62 mm (2.44")
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)
Max. pressure at 20°C	25 Bar (362 psi)	25 Bar (362 psi)	20 Bar (290 psi)
Viscosity in	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)
Power supply	5–24 Vdc	5–24 Vdc	5–24 Vdc
Output signal	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
Default cable	PVC 1 m (39.7")	PVC 1 m (39.7")	PVC 1 m (39.7")



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

Features / Benefits

- For flexible use and easy to install
- 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

Saint-Gobain Life Sciences Global Manufacturing Facilities



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WARRANTY: For a period of 12 months from the date of first sale, Saint-Gobain Life Sciences warrants this product to be free of defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof.

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