



When every drop counts.

PVDF Turbine Flow Sensor

Outstanding performance in various low flow measurement applications

This flow meter has low flow capabilities in a wide range of flow processes and is mainly developed to perform an accurate and repeatable flow measurement. Distinguished results in measuring chemicals, fuel, additives and more. These devices are suitable for long-term measurements without losing accuracy.

CHARACTERISTICS

- High resolution square wave output
- Flow measuring with revolutionary infrared turbine rotor reflection
- PVDF for high chemical and corrosive resistance
- Suitable for opaque liquids
- PVDF meet all the requirements of the US Pharmacopeia Class VI
- BSE/TSE certificate available
- Tube can be sterilized up to 140 °C
- Optional: programmable K-factor



MODEL	0045 Low Flow	0045	0085	0250
Inner diameter in mm	4.6	4.6	9.3	25.4
Linear flow range	0.07 – 1.0 L/min	0.1 – 2.0 L/min	1.0 – 20.0 L/min	5.0 – 200.0 L/min
Minimum flow	0.02 L/min	0.03 L/min	0.5 L/min	3.0 L/min
Accuracy	1% of reading	1% of reading	1% of reading	1% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%	< 0.15%
Wetted materials	PVDF / Ruby	PVDF / Ruby	PVDF / Ruby	PVDF / Sapphire
Tube connection	7 mm hose barb / 1/8" NPT	7 mm hose barb / 1/8" NPT	12 mm hose barb	32 mm hose barb
Tube length in mm	53	53	62	90
Liquid temperature in °C	-20 to +80	-20 to +80	-20 to +80	-20 to +80
Max. pressure at 20°C in bar	25	25	20	10
Viscosity in cSt.	0.8 - 10	0.8 - 10	0.8 - 10	0.8 - 10
Approx. K-factor in pulses/L	130,000	100,000	4,800	300
Power supply	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc
Output signal	5 - 24 V square wave	5 - 24 V square wave	5 - 24 V square wave	5 - 24 V square wave
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	PVC 1 meter	PVC 1 meter	PVC 1 meter

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 | V.012020