



When every drop counts.

PVDF-X Turbine Flow Sensor

Outstanding performance in various applications

The PVDF-X flow sensor of Equiflow has low flow sensing capabilities in a wide range of applications suitable for neutral, corrosive, aqueous and opaque liquids including fuel. An ultra-light-weight turbine rotor follows the fluctuation of the flow very accurately and generates a high resolution infrared reflected digital output signal. In either flow controlled or monitoring applications, the PVDF-X sensor can measure flow rates and totalize.

CHARACTERISTICS

- PVDF-X turbine flow sensor with high resolution output
- Measuring by revolutionary infrared turbine reflection
- Full PVDF parts for high corrosive resistance
- Outstanding performance
- High accuracy and repeatability
- Also suitable for opaque liquids
- Tube can be sterilized up to 100°C
- All wetted parts are made of PVDF with ruby bearing and Viton or EPDM sealing
- 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 / Ruby
O-ring seals	Viton or EPDM	Viton or EPDM	Viton or EPDM	Viton or EPDM
Connections	¼" BSP	¼" BSP	⅜" BSP	1" BSP
Dimensions incl. housing in mm	61	61	61	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	250
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.052021