EQUFLOW® SENSORS

When every drop counts

PVDF-X Turbine Flowmeter

Outstanding Performance in Various Applications

The PVDF-X flowmeter of Equflow has low flow sensing capabilities in a wide range of applications suitable for neutral, corrosive, aqueous, and opaque liquids including fuel. An ultra lightweight 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 flowmeter can measure flow rates and totalize.

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 including 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

NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application. Equflow® is a trademark of Saint-Gobain.

Features and Benefits

- Robust housing with threaded process connectors
- Mechanically strong PVDF material
- High resolution square wave output
- Measuring with revolutionary infrared turbine rotor reflection
- Suitable for opaque liquids
- Various validation documents available

Typical Applications

- Agriculture
- Chemical Dispensing
- Food and Beverage
- Water Treatment

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.

CERTIFIED ISO 9001

SAINT-GOBAIN

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