When every drop counts.

EQUFLOW® SENSORS

PFA Turbine Flow Sensor

Outstanding performance in various applications

This PFA flow sensor of Equflow has low flow sensing capabilities in a wide range of applications and is suitable for clear, opaque, neutral, corrosive and aggressive liquids including fuel. An ultra light-weight turbine rotor follows the fluctuation of flow. Very accurately and generates a high resolution infrared reflected output signal. In either flow controlled or monitoring applications, the PFA sensor can measure flow rates and totalize.

CHARACTERISTICS

- Turbine flow sensor with high resolution output
- Flow measuring by revolutionary infrared turbine rotor reflection
- PFA / Teflon for high chemical and corrosive resistance
- High accuracy and repeatability
- Suitable for opaque liquids
- PFA meets all the requirements of the US Pharmacopeia Class VI
- BSE/TSE certificate available
- Tube can be sterilized up to 180ºC
- All wetted parts are made of Teflon® / PFA with ruby bearing
- Optional: programmable K-factor

MODEL	0045	0085	0125
Inner diameter in mm	4.6	9.1	14.0
Linear flow range	0.1 – 1.8 L/min	1.0 – 20.0 L/min	2.5 – 40.0 L/min
Minimum flow	0.06 L/min	0.5 L/min	1.5 L/min
Accuracy	1% of reading	1% of reading	1% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%
Wetted parts	PFA / Ruby	PFA / Ruby	PFA / Ruby
Tube connection	7 mm hose barb / ⅛" NPT	12.5 mm hose barb / ¼" NPT	½" BSP
Tube length in mm	52	61	72
Liquid temperature in °C	-20 to +80	-20 to +80	-20 to +80
Max. pressure at 20°C in bar	20	15	10
Viscosity in cSt.	0.8 - 10	0.8 - 10	0.8 - 10
Approx. K-factor in pulses/L	120,000	5,500	2,000
Power Supply	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
Power consumption	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

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

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