



When every drop counts.

Disposable PFA Flow Sensor with Tubeholder System

Outstanding performance in pharmaceutical, medical, and biotechnological single-use applications

This flowmeter for disposable PFA turbine flow tubes, has low flow capabilities in a wide range of flow processes and is mainly developed to perform a fast exchange of the flow tube in single-use applications (for hygienic reasons e.g. in pharmaceutical- and bio-medical industries). Despite the name 'single-use', these devices are also suitable for long-term measurement.

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 180 °C
- All wetted parts are made of PFA with ruby bearing



MODEL	0045	0085	0125
Inner diameter in mm	4.6	9.1	14
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 / 1/8" NPT	12.5 mm hose barb / 1/4" NPT	1/2" 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 | V1.0-2021

