



Disposable PFA Turbine flowmeter

This model is developed to perform a fast exchange of the flow tube (for hygienic reasons e.g. in pharmaceutical industry). The flow meter is suitable for clear and opaque, neutral, corrosive and aggressive liquids, fuel and for periodic monitoring. The flow tube is assembled in the flow system. For measurement and calibration the easy- to- remove housing is placed around the tube and measuring can take place.



Patent US5388466

Characteristics:

- Turbine flow sensor with high resolution output
- Flow Measuring by revolutionary IR turbine rotor reflection
- PFA / Teflon for high chemical and corrosive resistance
- High accuracy and repeatability ("Swiss made")
- Suitable for opaque liquids
- Programmable pulse output
- PFA meet all the requirements of the US Pharmacopeia Class VI
- BSE/TSE certificate available

Options:

Programmable K-factor
Flow Alarm level
Batch function with preset

All wetted parts are made of Teflon®/PFA with ruby bearing.

| Model | 0045 | 0085 |
|---------------------------------|----------------------------|-----------------------------|
| Inner diameter in mm | 4,5 | 8,5 |
| Flow range | 0,06 – 2 L/min | 0,5 – 20 L/min |
| Accuracy | 1% of reading | 1% of reading |
| Repeatability | < 0,15 % | < 0,15 % |
| Wetted parts | PFA / Ruby | PFA / Ruby |
| Tube connection | 1/8" NPT or 7 mm hose barb | 1/4" NPT or 12 mm hose barb |
| Tube length in mm | L. 51 | L. 60 |
| Liquid temperature in °C | -20 tot +80 | -20 tot +80 |
| Max. pressure at 20°C in MPa | 2 (20 Bar) | 1,5 (15 Bar) |
| Viscosity in cSt. | 0,8 - 10 | 0,8 – 10 |
| K factor (water) in pulse/Liter | 110.000 | 6.100 |
| Power supply | 5 - 30 Vdc | 5 - 30 VDC |
| Output signal | 5 - 30 V square wave | 5 - 30 V square wave |
| Power consumption | 34 mA at 5 V | 34 mA at 5 V |
| Electrical cable length | PVC 1 meter | PVC 1 meter |
| Other Specs on request. | | |

The flow tube can be sterilized up to 160° C.

Subject to change without notice 01.2012