**EQUFLOW** ®
**SENSORS**

## PVDF Turbine Flow Sensor
Outstanding performance in various low flow measurement applications

This flow meter has low flow capabilities in a wide range of flow processes and is mainly developed to perform an accurate and repeatable flow measurement. Distinguished results in measuring chemicals, fuel, additives and more. These devices are suitable for long-term measurements without losing accuracy.

## CHARACTERISTICS

- High resolution square wave output
- Flow measuring with revolutionary infrared turbine rotor reflection
- PVDF for high chemical and corrosive resistance
- Suitable for opaque liquids
- PVDF meet all the requirements of the US Pharmacopeia Class VI
- BSE/TSE certificate available
- Tube can be sterilized up to 140 ºC
- 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 |
| Tube connection | 7 mm hose barb / ⅛" NPT | 7 mm hose barb / ⅛" NPT | 12 mm hose barb | 32 mm hose barb |
| Tube length in mm | 53 | 53 | 62 | 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 | V1.0-2021

**LR** CERTIFIED **ISO 9001**

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