



# Disposable PVDF Turbine Flowmeter

## Outstanding performance in Pharmaceutical- Medical- and Bio-technological 'single-use' applications

This flowmeter 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). In spite of the name 'Single-use' these devices are also suitable for longterm measurement.

### Characteristics:

- Performs a fast exchange of the flowtubes
- High resolution square wave output
- Flow Measuring by revolutionary Infra Red turbine rotor reflection
- PVDF for high chemical and corrosive resistance
- High accuracy (< 1%) and repeatability (< 0,15%)
- Also suitable for opaque liquids
- Programmable pulse output
- PVDF meets all the requirements of the US Pharmacopeia Class VI
- The flow tube can be sterilised up to 140° C.
- Gamma radiation resistant up to 50 kGy

Available in 2 designs, both with exchangeable tubes:



1. *Clip mounted*



2. *With Tube holder*



Patent US5388466

Model	0045	0085
Inner diameter in mm	4,7	9,3
Flow range	0,03 – 2 L/min	0,3 – 20 L/min
Accuracy	1% of reading	1% of reading
Repeatability	< 0,15 %	< 0,15 %
Wetted parts	PVDF / Ruby bearing	PVDF / Ruby bearing
Tube connection	7 mm hosebarb	12 mm hosebarb
Tube length in mm	53	62
Liquid temperature in °C	-20 tot +80	-20 tot +80
Max. pressure at 20°C in MPa	2.5 (25 Bar)	2 (20 Bar)
Viscosity in cSt.	0,8 - 10	0,8 – 10
K factor (water) in pulse/Litre	100.000	4.500
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 lenght	PVC 1 meter	PVC 1 meter
Options: Programmable K-factor – Flow alarm level – Batch function with preset Other Specs on request.		