Fixed PFA Turbine flowmeter

The 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 turbinerotor follows the fluctuation of flow very accurate and generates a high resolution IR reflected digital output signal. In either flow controlled or monitoring applications, the PFA flowsensor can measure flow rates and totalize.

Fixed mounted

Characteristics:

Turbine flowsensor with high resolution output
Flow Measuring by revolutionary IR turbinerotor reflection
PFA / Teflon for high chemical and corrosive resistance
High accuracy and repeatability.
Suitable for opaque liquids
PFA meet all the requirements of the US Pharmacopeia Class VI
BSE/TSE certificate available

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

Model	0045	0085	0125
Inner diameter in mm	4.5	8.5	12.5
Flow range	0.06 – 2 L/min	0.5 – 20 L/min	2.0 – 40 L/min
Accuracy	1% of reading		
Repeatability	< 0.15 %		
Wetted parts	PFA / Ruby bearing		
Tube connection	1/8“ NPT/7mm barb	1/4“ NPT/12mm barb	1/2“ PF
Tube length in mm	53	60	72
Liquid temperature in °C	-20°C to +80°C		
Max. pressure at 20°C in MPa	2.0 (20 Bar)	1.5 (15 Bar)	1.0 (10 Bar)
Viscosity in cSt.	0.8 - 10 cSt		
K factor (water) in pulse/Litre	110,000	6,100	2,000
Power supply	5 - 30 Vdc		
Output signal	5 - 30 V square wave		
Power consumption	34 mA at 5 V		
Electrical cable length	PVC 1 meter		
Options : Programmable K-factor – Flow alarm level – Batch function with preset Other Specs on request.			

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Disposable PFA Turbine Flowmeter

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

This model is developed to perform a fast exchange of the flow tube(hygienically reason e.g. in pharmaceutical industry). The flowmeter is suitable for clear and opaque, neutral, corrosive and aggressive liquids, fuell 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.

Clip mounted
(0045, 0085, 0125)

Characteristics:

Turbine flowsensor with high resolution output
Flow Measuring by revolutionary IR turbine rotor reflection
PFA / Teflon for high chemical and corrosive resistance
High accuracy and repeatability
Suitable for opaque liquids
Programmable pulse output
PFA meet all the requirements of the US Pharmacopeia Class VI
BSE/TSE certificate available
All wetted parts are made of Teflon®/PFA with ruby bearing.
The flow tube can be sterilised up to 160º C.

Click housing
(0045, 0085)

Model	0045	0085	0125
Inner diameter in mm	4,7	9,3	12.5
Flow range	0.06 – 2 L/min	0.5 – 20 L/min	2.0 – 40 L/min
Accuracy	1% of reading		
Repeatability	< 0.15 %		
Wetted parts	PFA / Ruby bearing		
Tube connection	7 mm hose barb	12 mm hose barb	1/2" PF
Tube length in mm	51	60	72
Liquid temperature in °C	-20°C to +80°C		
Max. pressure at 20°C in MPa	2.5 (25 Bar)	2 (20 Bar)	1.0 (10 Bar)
Viscosity in cSt.	0.8 - 10 cSt		
K factor (water) in pulse/Litre	100,000	4,500	2,000
Power supply	5 - 30 Vdc		
Output signal	5 - 30 V square wave		
Power consumption	34 mA at 5 V		
Electrical cable length	PVC 1 meter		

Options : 1. Programmable K-factor – Flow alarm level – Batch function with preset Other Specs on request.
2. Model 0125 only Clip mounting avaliable.

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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 has been developed to perform a fast exchange of the flow tube in single-use applications (hygienically reason e.g. in Pharmaceutical- and Bio medical industries In spite of the name 'Single-use', these devices are also suitable for long-term measurement.

Clip mounted

With tube holder

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 sterilized up to 140º C.
Gamma radiation resistant up to 50 kGy

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		-
Repeatability	< 0.15 %		
Wetted parts	PVDF / Ruby bearing		
Tube connection	7 mm hose barb	12 mm hose barb	-
Tube length in mm	51	60	-
Liquid temperature in °C	-20°C to +80°C		
Max. pressure at 20°C in MPa	2.5 (25 Bar)	2 (20 Bar)	-
Viscosity in cSt.	0.8 - 10 cSt		
K factor (water) in pulse/Litre	100,000	4,500	-
Power supply	5 - 30 Vdc		
Output signal	5 - 30 V square wave		
Power consumption	34 mA at 5 V		
Electrical cable length	PVC 1 meter		
Options : Programmable K-factor – Flow alarm level – Batch function with preset Other Specs on request.			

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Stainless Steel Turbine flowmeter

The SS flow sensor of Equflow has low flow sensing capabilities in a wide range of applications, with neutral- corrosive- aqueous- and opaque liquids including fuel. Outstanding performance in high pressure applications. An ultra light-weight turbinerotor, follows the fluctuation of the flow very accurate and generates a high resolution IR-reflected digital output signal.
In either flow controlled or monitoring applications, the SS flowsensor can measure flow rates and totalize.

Characteristics:

SS Turbine flowsensor with high resolution output
Measuring by revolutionary IR Turbine reflection
Stainless Steel - PFA parts for high corrosive resistance
Outstanding performance for high process pressure
High accuracy and repeatability (“swiss made”)
Also suitable for opaque liquids

All wetted parts are standard made of SS.316L / PFA with ruby bearing and FPM (Viton®) sealing.

Model	0045	0085	0125
Inner diameter in mm	4.5	8.5	12.5
Flow range	0.06 – 2 L/min	0.5 – 20 L/min	2.0 – 40 L/min
Accuracy	1% of reading		
Repeatability	< 0.15 %		
Wetted parts	SS316 / PFA / Ruby		
O-ring Seals	Viton or EPDM		
Tube connection	1/4“NPT or BSP	3/8“NPT or BSP	1/2“NPT or BSP
Tube length in mm	72.5, Ø 40	72.3, Ø 40	73.8, Ø 45
Liquid temperature in °C	-20°C to +80°C		
Max. pressure at 20°C in MPa	20 (200 Bar)	20 (200 Bar)	15 (150 Bar)
Viscosity in cSt.	0.8 - 10 cSt		
K factor (water) in pulse/Litre	110,000	6,100	2,000
Power supply	5 - 30 Vdc		
Output signal	5 - 30 V square wave		
Power consumption	34 mA at 5 V		
Electrical cable length	PVC 1 meter		
Options : Programmable K-factor – Flow alarm level – Batch function with preset Other Specs on request.			

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PVDF-X Turbine flowmeter

The PVDF-X flow sensor of Equflow has low flow sensing capabilities in a wide range of applications, with neutral- corrosive- aqueous- and opaque liquids including fuel. Outstanding performance in high pressure applications. An ultra light-weight turbinerotor, follows the fluctuation of the flow very accurate and generates a high resolution IR-reflected digital output signal.
In either flow controlled or monitoring applications, the SS flowsensor can measure flow rates and totalize.

Characteristics:

PVDF-X Turbine flowsensor with high resolution output
Measuring by revolutionary IR Turbine reflection
PVDF parts for high corrosive resistance
Outstanding performance
High accuracy and repeatability (“swiss made”)
Also suitable for opaque liquids

All wetted parts are standard made of PVDF / PFA with ruby bearing and FPM (Viton®) or EPDM sealing.

Model	0045	0085	-
Inner diameter in mm	4.5	8.5	
Flow range	0.03 – 2 L/min	0.5 – 20 L/min	
Accuracy	1% of reading		
Repeatability	< 0.15 %		
Wetted parts	PVDF / Ruby		
O-ring Seals	Viton or EPDM		
Tube connection	1/4“ BSP	3/8“ BSP	
Tube length in mm	61.5, Ø 40	60.0, Ø 40	
Liquid temperature in °C	-20°C to +80°C		
Max. pressure at 20°C in MPa	1.5 (15 Bar)		
Viscosity in cSt.	0.8 - 10 cSt		
K factor (water) in pulse/Litre	900,000	4,500	
Power supply	5 - 30 Vdc		
Output signal	5 - 30 V square wave		
Power consumption	34 mA at 5 V		
Electrical cable length	PVC 1 meter		
Options : Programmable K-factor – Flow alarm level – Batch function with preset Other Specs on request.			

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