



When every drop counts.

Stainless Steel Turbine Flow Sensor

Outstanding performance in various applications

The stainless steel flow sensor of Equiflow has low flow sensing capabilities in a wide range of applications suitable for neutral, corrosive, aqueous and opaque liquids including fuel. An ultra light-weight turbine rotor follows the fluctuation of the flow very accurately and generates a high resolution infrared reflected digital output signal.

CHARACTERISTICS

- Stainless steel turbine flow sensor with high resolution output
- Measuring by revolutionary infrared turbine reflection
- Stainless Steel SS 316L, PFA or PVDF, ruby bearing, and EPDM (Viton®) sealing for high corrosive resistance
- Outstanding performance for high process pressure
- High accuracy and repeatability
- Also suitable for opaque liquids
- Optional: programmable K-factor



MODEL	0045 Low Flow	0045	0085	0125	0250
Inner diameter in mm	4.6	4.6	9.3	14.0	25.4
Linear flow range	0.07 – 1.0 L/min	0.1 – 2.0 L/min	1.0 – 20.0 L/min	2.5 – 40.0 L/min	5.0 – 200.0 L/min
Minimum flow	0.02 L/min	0.03 L/min	0.5 L/min	1.5 L/min	3.0 L/min
Accuracy	1% of reading	1% of reading	1% of reading	1% of reading	1% of reading
Repeatability	< 0.15%	< 0.15%	< 0.15%	< 0.15%	< 0.15%
Wetted parts	SS316L / PVDF / Ruby	SS316L / PVDF / Ruby	SS316L / PVDF / Ruby	SS316L / PFA / Ruby	SS316L / PVDF / Ruby
O-ring seals	Viton or EPDM	Viton or EPDM	Viton or EPDM	Viton or EPDM	Viton or EPDM
Connections	¼" BSP/NPT or ¾" Tri-Clamp	¼" BSP/NPT or ¾" Tri-Clamp	⅜" BSP/NPT or ½" BSP or ¾" Tri-Clamp	½" BSP/NPT or 1" Tri-Clamp	1" BSP
Length in mm (incl. housing)	69	69	81	72	90
Liquid temperature in °C	-20 to +80	-20 to +80	-20 to +80	-20 to +80	-20 to +80
Max. pressure at 20°C in bar	100*	100*	200*	200	250
Viscosity in cSt.	0.8 - 10	0.8 - 10	0.8 - 10	0.8 - 10	0.8 - 10
Approx. K-factor in pulses/L	130,000	100,000	4,800	2,000	300
Power Supply	5 - 24 Vdc	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	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	34 mA at 5 V
Default cable	PVC 1 meter	PVC 1 meter	PVC 1 meter	PVC 1 meter	PVC 1 meter

* With additional pressure support the maximum pressure will be 150 bar (0045 models) or 250 bar (0085 models)

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 | V.052021