



When every drop counts.

## Stainless Steel Turbine Flow Sensor

Outstanding performance in higher process pressure

The stainless steel flow sensor of Equiflow has 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

- Sanitary process Tri-Clamp connections available
- SS316L material for high chemical and corrosive resistance
- Various validation documents available (including US Pharmacopeia Class VI)
- High resolution square wave output
- Measuring with revolutionary infrared turbine rotor reflection
- Suitable for opaque liquids



MODEL	0045 Low Flow	0045	0085	0125	0250
Inner diameter in mm	4.6 mm (0.18")	4.6 mm (0.18")	9.3 mm (0.37")	14.0 mm (0.55")	25.4 mm (1")
Linear flow range	0.07 – 1.0 L/min (0.02 – 0.26 GPM)	0.1 – 2.0 L/min (0.03 – 0.53 GPM)	1.0 – 20.0 L/min (0.26 – 5.28 GPM)	3.0 – 40.0 L/min (0.79 – 10.57 GPM)	10.0 – 200.0 L/min (10.64 – 52.83 GPM)
Minimum flow	0.02 L/min (0.005 GPM)	0.03 L/min (0.008 GPM)	0.5 L/min (0.13 GPM)	1.5 L/min (0.40 GPM)	3.0 L/min (0.79 GPM)
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 (incl. housing)	69 mm (2.72")	69 mm (2.72")	81 mm (3.19")	72 mm (2.83")	90 mm (3.54")
Liquid temperature	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)	-20°C to 80°C (-4°F to 176°F)
Max. pressure at 20°C (68°F)	20 Bar (290 PSI)*	20 Bar (290 PSI)	20 Bar (290 PSI)	20 Bar (290 PSI)	20 Bar (290 PSI)
Viscosity	0.8 – 10 cP	0.8 – 10 cP	0.8 – 10 cP	0.8 – 10 cP	0.8 – 10 cP
Approx. K-factor ( <i>P</i> = pulses)	130,000 P/L (490,000 P/G)	100,000 P/L (377,000 P/G)	4,800 P/L (18,000 P/G)	2,000 P/L (7,500 P/G)	250 P/L (940 P/G)
Power Supply	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc	5 - 24 Vdc
Output signal	5 - 24 V SQW	5 - 24 V SQW	5 - 24 V SQW	5 - 24 V SQW	5 - 24 V SQW
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 (39.37")	PVC 1 meter (39.37")	PVC 1 meter (39.37")	PVC 1 meter (39.37")	PVC 1 meter (39.37")

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 | V3.0-2023

