



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                 |
|------------------------------|----------------------|-----------------------------|-----------------------------|----------------------|
| Inner diameter in mm         | 4.6                  | 4.6                         | 9.3                         | 14.0                 |
| 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     |
| Minimum flow                 | 0.02 L/min           | 0.03 L/min                  | 0.5 L/min                   | 1.5 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 parts                 | SS316L / PVDF / Ruby | SS316L / PFA or PVDF / Ruby | SS316L / PFA or PVDF / Ruby | SS316L / PFA / Ruby  |
| O-ring seals                 | Viton or EPDM        | Viton or EPDM               | Viton or EPDM               | Viton or EPDM        |
| Connections                  | ¼" BSP/NPT           | ¼" BSP/NPT                  | ⅜" BSP/NPT or ½" BSP        | ½" BSP/NPT           |
| Length in mm (incl. housing) | 69                   | 69                          | 81                          | 72                   |
| Liquid temperature in °C     | -20 to +80           | -20 to +80                  | -20 to +80                  | -20 to +80           |
| Max. pressure at 20°C in bar | 100*                 | 100*                        | 200*                        | 200                  |
| 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                       | 2,000                |
| 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          |

\* 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.012020