EQUFLOW® SENSORS

When every drop counts

# Stainless Steel Flowmeter

## Outstanding Performance in Higher Process Pressure

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

| 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 | " BSP/NPT or " Tri-Clamp | " BSP/NPT or " Tri-Clamp | " BSP/NPT or " BSP or " Tri-Clamp | " 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) | 100 Bar (1450 PSI)* | 100 Bar (1450 PSI)* | 200 Bar (2900 PSI)* | 200 Bar (2900 PSI) | 250 Bar (3625 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 (P = 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 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 (39.37") | PVC 1 meter (39.37") | PVC 1 meter (39.37") | PVC 1 meter (39.37") | PVC 1 meter (39.37") |

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

**NOTE:** The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application. Equflow® is a registered trademark of Saint-Gobain Performance Plastics Corporation.

### Features and Benefits

- Sanitary process Tri-Clamp connections available
- Outstanding performance in higher process pressure
- SS316L material for high chemical and corrosive resistance
- High resolution square wave output
- Measuring with revolutionary infrared turbine rotor reflection
- Suitable for opaque liquids
- Various validation documents available

### Typical Applications

- Agriculture
- Chemical Dispensing
- Food and Beverage
- Water Treatment

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.

CERTIFIED ISO 9001

**Equflow®**
Voorschakelstraat 8
5349CC Oss
The Netherlands

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