Data Sheet

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SF-800 Turbine	SF-800/6 High Pressure	1/2

General information: SF-800/6 (Stainless Steel - High Pressure)

The patented SF800 is an all-purpose flow meter with an excellent price-performance ratio. It is suitable for a wide range of applications and large variety of fluids.

The heart of the sensor is a turbine with ultra-light (<0.03 gram) VECTRA rotor. The weight of the rotor and the internal geometry of the turbine enable the rotor to float in the medium allowing it to spin near-frictionless.

An integrated PCB emits the infrared signal, which is interrupted by the three blades of the rotor. SMD components transform the interrupted signal into a pulse, creating a perfect block-pulse.

High Quality:

- Accurate (Repeatability of <0.30%)
- Durable (Little-to-no wear)
- Reliable (Warranty of 12 years)

Data Sheet

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SF-800 Turbine	SF-800/6 High Pressure	2/2

Technical info: SF-800/6 (Stainless Steel - High Pressure)

Range	
Flow velocity *	0.5 - 20 Liter/min (* other flow-ranges, upon request)
Temperature	-20 - +90 °C
Viscosity	1 - 1000 Cst
Operating pressure	250 bar
Max. pressure	750 bar (static pressure)
Reliability	
Interchangeability **	+/- 2.25% (** upon request: less than 1%)
Accuracy (Linearity)	+/- 1.00%
Accuracy (Reproducibility)	+/- 0.30%
Technical	
Process Connections	3/8" BSP (Female)
Electrical Connection	Hirschmann connector
Excitation	5 - 24 VDC, 12 - 24mA
Power consumption	12 - 36 mA/s
Output	Block-pulse
Output frequency	100 - 2000 Hz (depending on the flow velocity)
K-factor	+/- 5500 pulse/liter
Material	
Rotor	Vectra
Inner-housing	PVDF
Outer-housing	High-grade Stainless Steel: AISI 303
Sealing	EPDM or Viton