

- Excellent price-to-performance ratio
- Unique technology
- Exceptional accuracy and reliability
- Operates with liquids with viscosity from 1 to 1000 CST
- 6000 pulses per liter of water
- High-pressure versions
- Maintenance free

**GENERAL DESCRIPTIONS**

The BASI BFS80 low-cost flow sensor, is based on the patented SWISSFLOW sensors. These sensors use a unique technology, which is the basis for the high-grade liquid flow sensors. The rotor housing with its special geometry, the light-weight Vectra rotor (0.04 g), and a radial liquid flow make the rotor float. This floating movement is the source of a mechanical resistance hardly capable of measuring, which ensures a long service life, a high accuracy and linearity. The 3-vane rotor interrupts an infrared signal. The unique rotor design provides a high-pressure (up to 250 Bar model 806) operation. The material types used (PVDF, Vectra, Viton) have an exceptional chemical and thermal (up to 90 °C) resistance. Other ranges except the standard flow range from 0.5 to 20 l/min are available upon request. The sophisticated design makes the BFS80 suitable for universal applications and offers excellent price-to-performance ratio.

**TECHNICAL SPECIFICATIONS**

**Process** : Clear or translucent liquids transmitting IR light with viscosity 1 to 1000 CST

**Range** : 0,5 to 20 lit/min

**Output** : 6000 pulses per liter

**Output type** : NPN-pulse

**Output frequency**: 100 to 2000Hz

**Line resistance**: Min 50 ohm/V

**Power supply**: 5 to 24VDC

**Protection** : IP65 SS316

**Material** : PVDF, Viton, Vectra, EPDM

**Ambient temp** : -20 to +90°C

**Process temp** : -20 to +90 °C

**Storage temp** : -40 to 90°C

**Pressure class**: PN 16 (40 bar at 40°C)

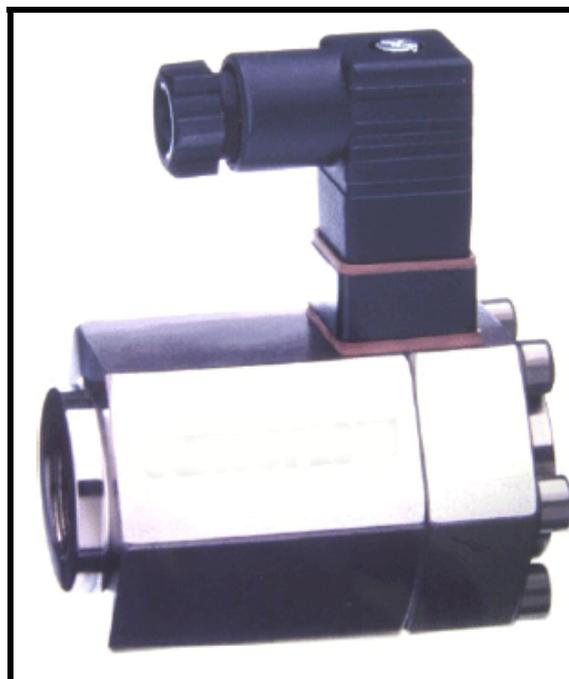
**PERFORMANCE**

**Accuracy** : ± 1%

**Reproducibility** : ± 0.3%

**Temperature effect** : ± 0,01% of range

**EMC**: EN50081-1, EN50082-2, 89/336/EEC

**INSTALLATION**

**Electric connection** : Flat cable 15cm (type 800)  
Contact G4A1MMT (type 806)

**Process connection**: G 3/8" male (BFS800)  
G 3/8" female (BFS806)

**Wetted parts** : PVDF, Viton, Vectra, EPDM

**Housing** : IP65 (SS316 type 806)

**Mounting** : Directly in pipe

**Size** : Diam 27 x 32mm (type 800)  
32x60x62 mm (type 806)



## ORDER INFORMATION

**BFM80X**

**VARIANT**

0 Normal

6 High pressure

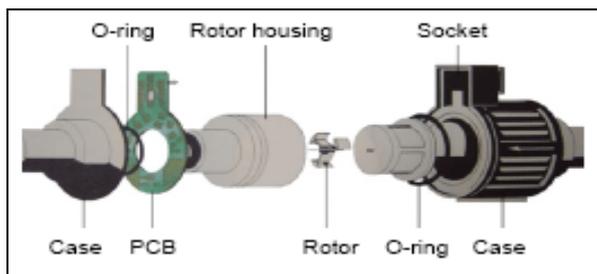
**OPTION**

X None

S 1% interchangeability

## MECHANICAL SPECIFICATIONS

Model	800	806
<i>Specification</i>		
<i>Operating/Maximum pressure</i>	16 Bar / 40 Bar at 40 °C	250 Bar / 750 Bar static burst pressure
<i>Wetted parts materials</i>	PVDF, Vectra, Viton, EPDM	PVDF, Vectra, Viton
<i>Housing material</i>		Stainless steel AISI 303
<i>Electrical connection</i>	3-wire flat cable (15cm)	Connector G4A1MMT
<i>Process connection</i>	G3/8" - male	G3/8" - female
<i>Dimensions</i>	∅27x52	App. 32x60x62



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**Flowsensor for Liquids**

**BFS80**

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