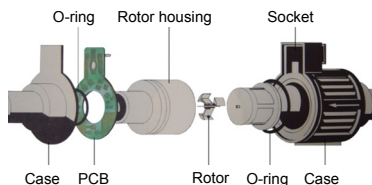


Turbine Flow Sensor for Liquids PSF80x

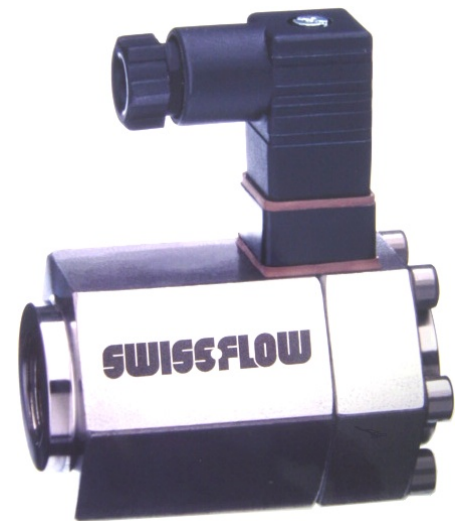


- ◆ Excellent price-to-performance ratio
- ◆ Unique SWISSFLOW technology
- ◆ Exceptional accuracy and reliability
- ◆ Operates with liquids with viscosity from 1 to 1000 CST
- ◆ 6000 pulses per liter of water
- ◆ High-pressure variant
- ◆ Maintenance-free

The PSF80x low-cost flow sensor, offered by COMECO, is manufactured by SWISSFLOW. The patented Swissflow technology is the basis for the high-grade liquid flow meters. 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 that is converted into a pulse by the integrated electronics. The unique rotor design provides a high-pressure (up to 250 bar) 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 on request. The sophisticated design makes the PSF80x sensor suitable for universal application and offers excellent price-to-performance ratio.


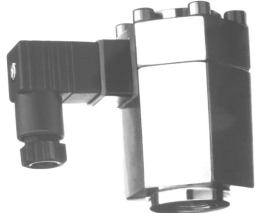


Technical specifications

Input	
Liquid type	clear or translucent liquid transmitting IR light ⁽¹⁾
Liquid viscosity	1...1000 CST
Flow range	0.5...20 l/min ⁽²⁾
Output	
Output type	NPN, pulse
Output frequency	100...2000 Hz
Load resistance	min. 2200 Ω
Line resistance	max. 50 Ω/V
Sensitivity	6000 pulses per liter

Accuracy	
Accuracy	± 1.00%
Interchangeability	1.00%
Reproducibility	± 0.30%
Power supply	
Excitation voltage	5...24 VDC
Consumption	12...36 mA
Operating conditions	
Operating temperature	-20...90 °C
Storage temperature	-40...90 °C

⁽¹⁾ Liquid medium must be compatible with wetted parts!
⁽²⁾ Other ranges are available on request.

Variant	0	6
Specifications		
Operating / maximum pressure	16 bar / 40 bar at 40 °C	250 bar / 750 bar static burst pressure
Wetted parts	PVDF, Vectra®, Viton®, EPDM	PVDF, Vectra®, Viton®
Housing		stainless steel AISI 303
Electrical connection	3-wire flat cable, 15 cm	connector G4A1MMT
Process connection	G3/8", male	G3/8", female
Dimensions	ø27x52 mm	≈ 32x60x62 mm

Ordering code PSF80★

Code	Feature or option	Code values
★	Variant	0 - normal, 6 - high-pressure