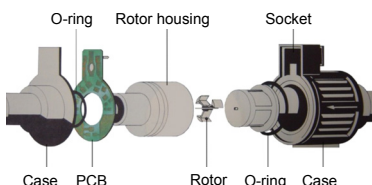


## Turbine Flow Sensor for Liquids PSF80

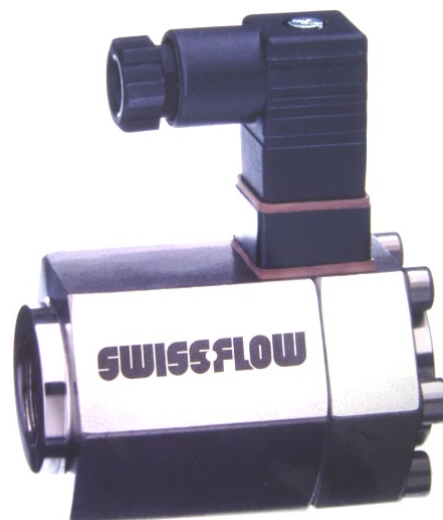


- ◆ Excellent price-to-performance ratio
- ◆ Unique SWISSFLOW technology
- ◆ Exceptional accuracy and reliability
- ◆ Operates with liquids with viscosity from 1 to 1000 CST
- ◆ 6000 pulses per liter of water
- ◆ High-pressure variant
- ◆ Maintenance-free

The PSF80 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 PSF80 sensor suitable for universal application and offers excellent price-to-performance ratio.



### Technical specifications

#### Input

<b>Liquid type</b>	clear or translucent liquid transmitting IR light <sup>(1)</sup>
<b>Liquid viscosity</b>	1...1000 CST
<b>Flow range</b>	0.5...20 l/min <sup>(2)</sup>

#### Output

<b>Output type</b>	NPN, pulse
<b>Output frequency</b>	100...2000 Hz
<b>Load resistance</b>	min. 2200 Ω
<b>Line resistance</b>	max. 50 Ω/V
<b>Sensitivity</b>	6000 pulses per liter

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

#### Accuracy


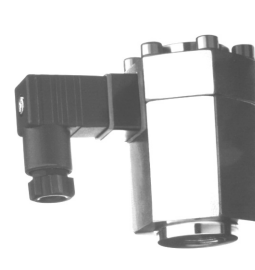
<b>Accuracy</b>	± 1.00%
<b>Interchangeability</b>	1.00%
<b>Reproducibility</b>	± 0.30%

#### Power supply

<b>Excitation voltage</b>	5...24 VDC
<b>Consumption</b>	12...36 mA

#### Operating conditions

<b>Operating temperature</b>	-20...90 °C
<b>Storage temperature</b>	-40...90 °C

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

### Ordering code PSF80★

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