



## Turbine Wheel Flow Meter for Liquids



measuring  
•  
monitoring  
•  
analysing



Model: ADI-K...

- Measuring range:  
0.5 - 20 L/min water
- Measuring accuracy:  
 $\pm 1\%$  f. s.
- $p_{max}$ : 250 bar,  $t_{max}$ : 90 °C
- Viscosity range:  
low viscosity
- Connection: G  $\frac{3}{8}$
- Materials:  
1.4305, PVDF
- Output: pulses
- Negligible wear
- Medium: infrared light transmissivity



Model: SFL-1220R10

KOBOLD companies worldwide:

ARGENTINA, AUSTRIA, BELGIUM, CANADA, CHILE, CHINA, CZECHIA,  
FRANCE, GERMANY, GREAT BRITAIN, INDIA, INDONESIA, ITALY,  
MALAYSIA, MEXICO, NETHERLANDS, POLAND, SINGAPORE, SLOVAKIA,  
SPAIN, SWITZERLAND, THAILAND, USA, VENEZUELA, VIETNAM

KOBOLD Messring GmbH  
Nordring 22-24  
D-65719 Hofheim/Ts.  
☎ +49 (0) 61 92 299-0  
Fax +49 (0) 61 92 233 98  
E-Mail: info.de@kobold.com  
Internet: www.kobold.com

Model:  
SFL...

**Areas of Application**

The model SFL low volume flow meter is particularly suitable for service with liquids free from solids.

The liquids must be transmissive for infrared light (for example: water, oil, chemicals).

The plastic or St.St. material combination allows service with aggressive media.

**Applications**

- Low-viscosity liquids (solids < 20 µm)
- Ideal system for filling plants (food and drinks industry)
- Volume batching, for example chemicals (with an external batching device)
- Aggressive media

**Method of Operation**

The forced medium causes the turbine wheel to rotate. Housing geometry, light-weight turbine wheel and radial flowing liquid ensure that the rotor floats.

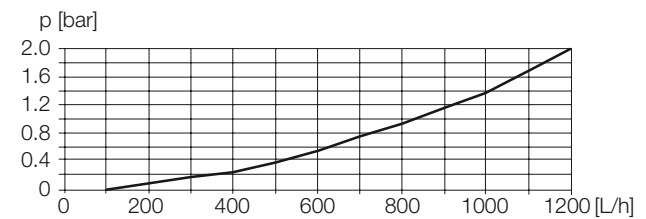
A suspended rotor ensures a long service life. The motion of the turbine wheel is sensed in a non-contacting manner with infrared diodes and converted to impulses.

This output signal is linear and proportional to the volumetric flow. The flow meter may be installed in any position.

**Technical Specifications**

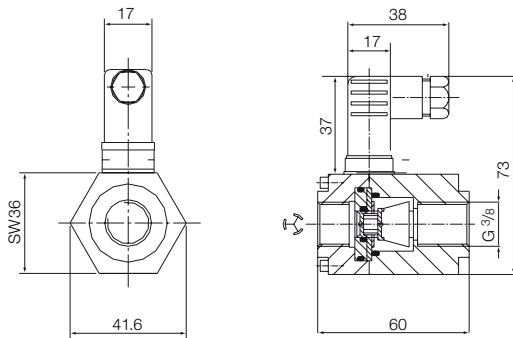
- Reaction value: approx. 0.08 L/min
- Max. medium temp.: -20 to +90 °C
- Max. operating pressure: 16 bar (SFL-13) 250 bar (SFL-12)
- Measuring accuracy: ± 1 % f.s.
- Repeatability: ± 0.3 % of measured value
- Interchangeability: ± 2.5 % of measured value
- Power supply: 5...24 V<sub>DC</sub> (12...24 mA)
- Output signal: pulses approx. 50 to 2100Hz (square, no zero crossing)
- K factor: approx. 6250 pulses/liters
- Materials: PVDF case and Vectra rotor or stainless steel 1.4305 (case) and Vectra rotor O-ring FPM or EPDM
- Mechanical connection: G 3/8 male or hose connector (10 mm) G 3/8 female (st. steel only)
- Electrical connection: 3-core ribbon cable (app. 15 cm) encapsulated in the case Hirschmann connector GDSN207 (with st. steel only)

**Pressure Loss**

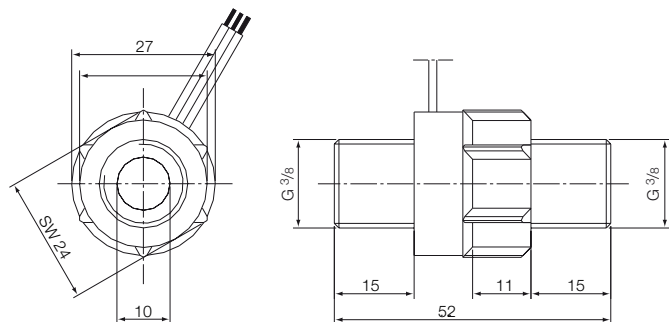


**Dimensions**

Model: SFL-1220 R10



Model: SFL-1320 R10



**Order Details** (example: SFL-1220R10)

Model	Material, housing/rotor	Connection	Meas. range L/min water	Pulse rate	t <sub>max</sub>	p <sub>max</sub>
SFL-1220 R10	1.4305/Vectra	G 3/8 female	0.5 - 20	6250 pulses/L	-20 to +90 °C	250 bar
SFL-1320 R10	PVDF/Vectra	G 3/8 male	0.5 - 20	6250 pulses/L	-20 to +90 °C	16 bar

Digital indicators and transducers see end of brochure.