

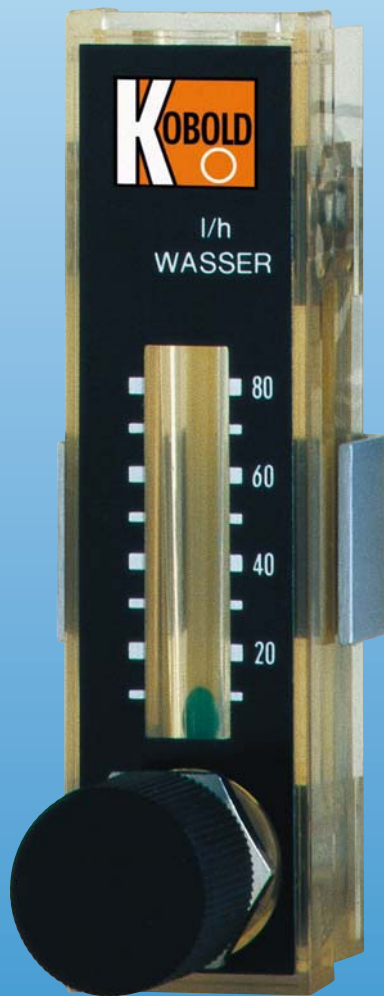


## Flow Meters for very Low Flows

with and without Control Valve



measuring  
•  
monitoring  
•  
analysing



- Flow rates:  
Water 0.25-1.5 to 10-80 L/h  
Air 20-80 L<sub>N</sub>/h to 0.5-2.5 m<sup>3</sup><sub>N</sub>/h
- Accuracy: ±6 % f.s.
- p<sub>max</sub> 6 bar, t<sub>max</sub> +120 °C
- Connection: 1/8 NPT female
- Materials:  
polycarbonate and brass  
polysulfone and stainless steel

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)6192 299-0  
Fax +49(0)6192 23398  
E-Mail: info.de@kobold.com  
Internet: www.kobold.com

**Model:**  
KSV



**Description**

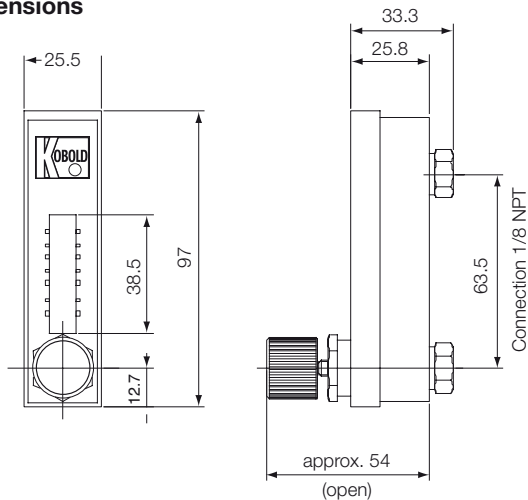
The flow meter and switch for very low flows model KSV for liquids or air operates on the suspended float principle. The direction of flow is from bottom to top, and the installation position is vertical. The indication point is the upper edge of the ball.

The device has been designed as a simple and thus economical measuring system. The optional needle valve allows economical control. The device has been designed for panel mounting.

**Advantages:**

- Acid and caustic-proof
- Suitable for sterilization (120 °C); only material combination III + IV
- Shock resistant
- Small size
- Light weight
- Easy to install

**Dimensions**



Panel cut-out: 93 + 0.5 mm x 23 + 0.5 mm

**Technical Details**

Connection: 1/8 NPT female  
 Option: hose connector, Ø 8 mm, polyamide straight version (order no. ...G) angle version (order no. ...W) plastic compression fitting (order no. ...K)  
 Inlet & outlet: horizontal  
 Measuring accuracy: ±6 % of full scale value  
 Repeatability: 1 % of full scale value  
 Operating pressure: max. 6.0 bar (device is not suitable for vacuum pressure)  
 Operating temperature: polycarbonate: -20 °C to +60 °C polysulfone: -20 °C to +120 °C

**Material combinations**

	Housing	Connection	O-rings
<b>I</b>	Polycarbonate	Brass, nickel-pl.	NBR
<b>II</b>	Polycarbonate	St. steel, 1.4305	FPM
<b>III</b>	Polysulfone	Brass, nickel-pl.	NBR
<b>IV</b>	Polysulfone	St. steel, 1.4305	FPM

**Order Details** (Example: **KSV 1204 L**, material combination II (PC, st. steel) with control valve. Meas. range 50-150 L<sub>N</sub>/h air)

Water	Float	With control valve material combination				Without control valve material combination				Air Add suffix “..L” to code L <sub>N</sub> /h*
		I	II	III	IV	I	II	III	IV	
L/h										
0.25 - 1.5	Glass	<b>KSV 1101</b>	<b>KSV 1201</b>	<b>KSV 1301</b>	<b>KSV 1401</b>	<b>KSV 2101</b>	<b>KSV 2201</b>	<b>KSV 2301</b>	<b>KSV 2401</b>	20 - 80
1 - 4	St. steel	<b>KSV 1104</b>	<b>KSV 1204</b>	<b>KSV 1304</b>	<b>KSV 1404</b>	<b>KSV 2104</b>	<b>KSV 2204</b>	<b>KSV 2304</b>	<b>KSV 2404</b>	50 - 150
0.5 - 6	Glass	<b>KSV 1106</b>	<b>KSV 1206</b>	<b>KSV 1306</b>	<b>KSV 1406</b>	<b>KSV 2106</b>	<b>KSV 2206</b>	<b>KSV 2306</b>	<b>KSV 2406</b>	50 - 300
2.5 - 15	St. steel	<b>KSV 1116</b>	<b>KSV 1216</b>	<b>KSV 1316</b>	<b>KSV 1416</b>	<b>KSV 2116</b>	<b>KSV 2216</b>	<b>KSV 2316</b>	<b>KSV 2416</b>	50 - 500
5 - 30	Titanium	<b>KSV 1135</b>	<b>KSV 1235</b>	<b>KSV 1335</b>	<b>KSV 1435</b>	<b>KSV 2135</b>	<b>KSV 2235</b>	<b>KSV 2335</b>	<b>KSV 2435</b>	0.25 - 1.5 m <sup>3</sup> <sub>N</sub> /h
10 - 80	Hard metal	<b>KSV 1180</b>	<b>KSV 1280</b>	<b>KSV 1380</b>	<b>KSV 1480</b>	<b>KSV 2180</b>	<b>KSV 2280</b>	<b>KSV 2380</b>	<b>KSV 2480</b>	0.5 - 2.5 m <sup>3</sup> <sub>N</sub> /h

Option: hose connector, straight version item code. Suffix G / angle version item code.  
 Suffix W plastic coupling for PE and PP (polypropylene) piping ND 6 mm with box nut Suffix K.  
 \*At 1.2 bar abs.; 20 °C