



- Measuring range:  
 2-20 to 20-100 L/min water  
 1-18 to 10-75 L/min oil
- Accuracy:  $\pm 5\%$  f. s.
- $p_{max}$  16 bar,  $t_{max}$  120°C
- Connection:  
 G 1, 1 NPT  
 PVC glue-in connection,  
 inserts G 1/2, G 3/4  
 soldering connection  
 18 mm, 22 mm
- Material: PSU

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

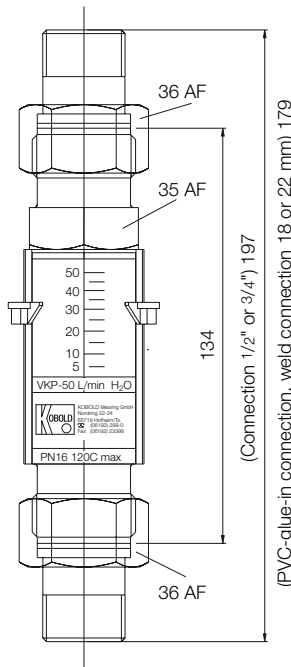
**Model:**  
 VKP



**Description**

The KOBOLD plastic flow meters model VKP operate on a special suspended float principle with cylindrical measuring tube and spring-loaded float with orifice. The float in model VKP-3... has slots moulded on the outside, which protect the instrument from soiling by depositing dirt particles. The danger of the float jamming is thus considerably reduced and soiled liquids with a particle size up to 400 µm can be measured without difficulty. In model VKP-2... a sharp-edged orifice in the float renders the instrument less sensitive to changes in viscosity.

**Dimensions**



**Technical Details**

- Housing: PSU
- Connections: G 1 external thread;  
1 NPT external thread  
inserts G 1/2, G 3/4  
PVC glue-in connection,  
soldering connection 18, 22 mm (Ms)
- Float: PSU
- Spring: stainless steel, 1.4310
- Toothed ring: stainless steel, 1.4310
- Flat seal: for model VKP-1... / 3... NBR  
for model VKP-2... Klingerit Oilit
- Max. temperature: 120°C  
85°C (with contact)  
60°C (with PVC connection)
- Max. pressure: 16 bar
- Accuracy: VKP-1...: ±5 % f. s.  
VKP-2...: ±5 % f. s.  
VKP-3...: ±7 % f. s.
- Installation position: horizontal or vertical

**Option (for VKP-1 and VKP-2 only)**

- Contact components: 1 N/O or N/C contact, bistable
- Electr. connection: connector DIN 43 650
- Switch capacity: max. 40 W / VA  
max. 230 V<sub>AC/DC</sub>  
max. 2 A
- No single value is allowed to be exceeded.

**Applications**

- Lubrication circuits
- Domestic electrical installations
- Machine tools
- Solar energy systems
- Cooling circuits
- Welding machines
- Pumps

**Order Details** (Example: VKP-1020 R25 S)

| Standard version       |             | For viscous media                      |             | For soiled media<br>(particle size max. 400 µm) |             | Connection                          | Contacts<br>(not for VKP-3..)                  |
|------------------------|-------------|--|-------------|---|-------------|-------------------------------------|--|
| L/min H <sub>2</sub> O | Order no.   | L/min Oil<br>at 100 mm <sup>2</sup> /s | Order no.   | L/min H <sub>2</sub> O                          | Order no.   |                                     |  |
| 2 - 20                 | VKP-1020... | 1 - 18                                 | VKP-2018... | 7.5 - 32.5                                      | VKP-3032... | ..R25..= G 1 male (standard)        | 0= without<br>S= N/O contact<br>C= N/C contact |
| 5 - 35                 | VKP-1035... | 2 - 30                                 | VKP-2030... | 10 - 45   | VKP-3045... | ..N25..= 1 NPT male                 |  |
| 5 - 50                 | VKP-1050... | 5 - 45                                 | VKP-2045... | 15 - 70   | VKP-3070... | ..L18..= soldering connection 18 mm |  |
| 10 - 80                | VKP-1080... | 10 - 75                                | VKP-2075... | 20 - 100  | VKP-3100... | ..L22..= soldering connection 22 mm |  |
| 20 - 100               | VKP-1100... | -                                      | -           | -   | -           | ..PVC..= PVC-glue-in conn. 20 mm    |  |
|                        |             |  |             |   |             | ..IG1..= G 1/2 female, brass        |  |
|                        |             |  |             |   |             | ..IG2..= G 1/2 female, st. steel    |  |
|                        |             |  |             |   |             | ..AG1..= G 1/2 male, brass          |  |
|                        |             |  |             |   |             | ..AG2..= G 1/2 male, st. steel      |  |
|                        |             |  |             |   |             | ..AG3..= G 3/4 male, brass          |  |
|                        |             |  |             |   |             | ..AG4..= G 3/4 male, st. steel      |  |