



Viscosity-Compensated Plastic Flow Meters and Switches

for liquids



measuring
•
monitoring
•
analysing

VKP



- Measuring range:
2-20 ... 20-100 l/min water
1-18 ... 10-75 l/min oil
- Accuracy: $\pm 5\%$ of full scale
- p_{\max} : 16 bar; t_{\max} : 120 °C
- Connection:
G1, 1" NPT
PVC glue-in connection,
inserts G $\frac{1}{2}$, G $\frac{3}{4}$
soldering connection 18 mm,
22 mm
- Material: polysulfone

S2



KOBOLD companies worldwide:

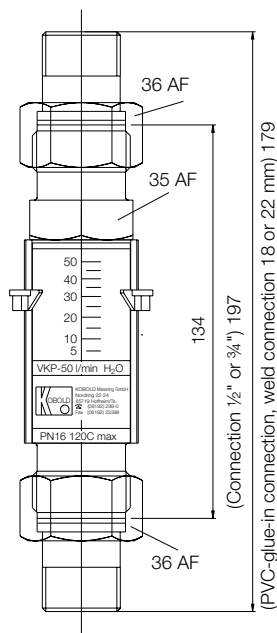
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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

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: Polysulfone
- Connections: G 1 male thread;
1" NPT male thread
inserts G 1/2, G 3/4
PVC glue-in connection,
soldering connection 18, 22 mm (Ms)
- Float: Polysulfone
- 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 % of full scale
VKP-2...: ± 5 % of full scale
VKP-3...: ± 7 % of full scale

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_{AC/DC},
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 (particle size max. 400 µm) | | Connection | Contacts (not for VKP-3..) |
|------------------|-------------|---------------------------|-------------|---|-------------|--|--|
| Water [l/min] | Order no. | Oil at 100 cSt [l/min] | Order no. | Water [l/min] | Order no. | | |
| 2 - 20 | VKP-1020... | 1 - 18 | VKP-2018... | 7.5 - 32.5 | VKP-3032... | ..R25..= G 1 male (standard) ..N25..= 1" NPT male | 0 = without S = N/O contact C = N/C contact |
| 5 - 35 | VKP-1035... | 2 - 30 | VKP-2030... | 10 - 45 | VKP-3045... | ..L18..= soldering conn. 18 mm ..L22..= soldering conn. 22 mm | |
| 5 - 50 | VKP-1050... | 5 - 45 | VKP-2045... | 15 - 70 | VKP-3070... | ..PVC..= PVC-glue-in conn. 20 mm ..IG1..= G 1/2 female, brass ..IG2..= G 1/2 female, st. steel | |
| 10 - 80 | VKP-1080... | 10 - 75 | VKP-2075... | 20 - 100 | VKP-3100... | ..AG1..= G 1/2 male, brass ..AG2..= G 1/2 male, st. steel | |
| 20 - 100 | VKP-1100... | - | - | - | - | ..AG3..= G 3/4 male, brass ..AG4..= G 3/4 male, st. steel | |