



Viscosity-Compensated Plastic Flowmeters 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:
±5 % of full scale
- p_{max} : 16 bar; t_{max} : 120 °C
- Connection:
G1, 1" NPT
PVC glue-in connection,
inserts G 1/2, G 3/4
soldering connection
18 mm, 22 mm
- Material: polysulfone

52



KOBOLD companies worldwide:

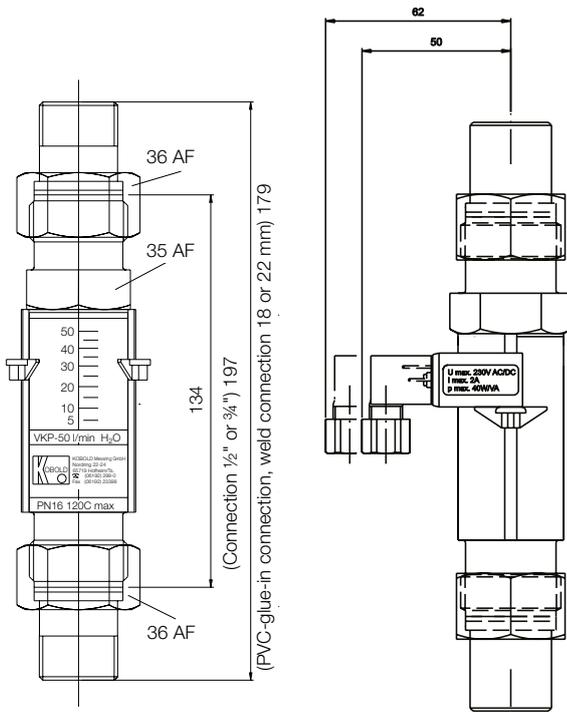
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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

Description

The KOBOLD plastic flowmeters 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 [mm]



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]	Pressure loss at FS [mbar]	Order no.	Oil at 100 cSt [l/min]	Pressure loss at FS [mbar]	Order no.	Water [l/min]	Pressure loss at FS [mbar]	Order no.		
2-20	190	VKP-1020...	1-18	290	VKP-2018...	7.5-32.5	260	VKP-3032...	..R25.. = G 1 male (standard) ..N25.. = 1" NPT male ..L18.. = soldering conn. 18 mm ..L22.. = soldering conn. 22 mm ..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	O = without S = N/O contact C = N/C contact
5-35	305	VKP-1035...	2-30	660	VKP-2030...	10-45	420	VKP-3045...		
5-50	420	VKP-1050...	5-45	1030	VKP-2045...	15-70	790	VKP-3070...		
10-80	940	VKP-1080...	10-75	1680	VKP-2075...	20-100	1150	VKP-3100...		
20-100	1080	VKP-1100...	-	-	-	-	-	-		