



Viscosity-Compensated Plastic Flow Meters and Switches for Liquids



measuring
•
monitoring
•
analysing



- 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 $\frac{1}{2}$, G $\frac{3}{4}$
soldering connection
18, 22 mm
- Material: Polysulfone



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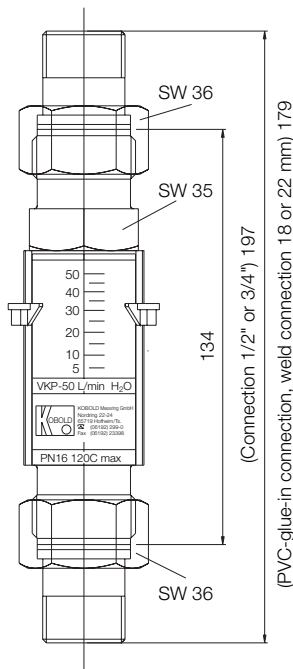
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Description

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 external thread; 1 NPT external 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 % 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. 200 V / max. 10 W / Max. 0.5 A

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..)
L/min H ₂ O	Order no.	L/min Oil at 100 mm ² /s	Order no.	L/min H ₂ O	Order no.		
2 - 20	VKP-1020...	1 - 18	VKP-2018...	7.5 - 32.5	VKP-3032...	..R25..= G 1 male (standard)	0= without S= N/O contact 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	



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