



KOBOVAR

Viscosity Compensated
Flow Meter/Monitor



measuring
•
monitoring
•
analysing



- Measuring range:
0.1 - 0.4 ... 30 - 100 L/min Oil
- Viscosity range:
30 ... 540 cSt
- p_{max} 250 bar,
 t_{max} 100 °C
- Accuracy: $\pm 4\%$ f. s.
- Material:
Brass
- Connection:
G 1/4 ... G 1 female
1/2 NPT; 3/4 NPT

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Model:
VKA



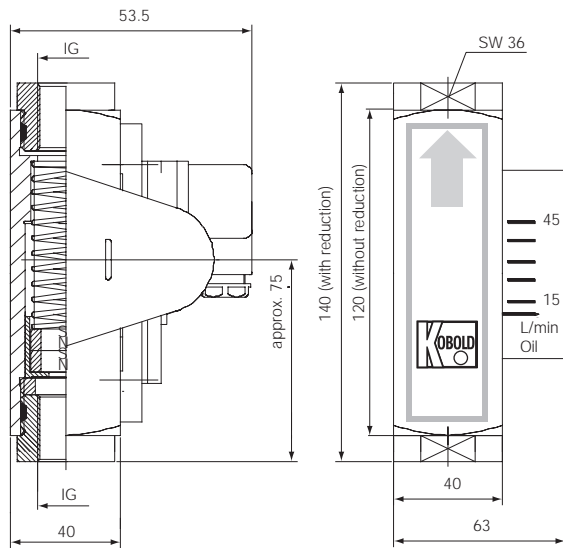
Description

KOBOVAR flow meters /monitors of model VKA have been developed for measuring and monitoring of viscous flow. They employ a special float principle, with cylindrical measurement pipe, orifice and spring-loaded suspended float. This ensures an on-going viscous compensation within 30 to 540 cSt. All of these units work independent of position. The recommended position, however, is vertical, with flow-direction from below to upwards.

These units are supplied in following versions:

- VKA-1... Flow monitor with 1 contact
- VKA-2... Flow meter with Side-display; without contact
- VKA-3... Flow meter/monitor with side-display, and contact

Dimensions



Technical Data

- Housing: Brass, Ms 58, (nickel-plated)
- Connections: Brass, Ms 58, (nickel-plated)
- Float: Brass, Ms 58
- Orifice: St. Steel 1.4310
- Spring: St. Steel 1.4310
- Magnet: Ceramic-oxide
- Sealing: NBR (1/4" ...3/4")
- Max. temperature: Ambient -25...+75 °C
Medium -25... +100 °C
- Max. pressure: PN 250 (PN 160 with reduction)
- Mounting position: any
- inlet/outlet path: not necessary
- Contact type: 1 N/O contact or, change-over contact, adjustable from 10 - 90% of F.S.
- Elect. Connection: Plug DIN 43 650

- Switching Power: max. 240 V_{AC} / max. 100 VA / max. 1.5 A
- Accuracy: ± 4% of F.S. (at a viscosity of 105 cSt)
- Measurement error w.r.t. variation in viscosity : changes in viscosity within 30... 540 cSt cause additional deviation. maximum ± 4% of F.S.
- Repeatability: ≤ 1%
- Viscosity Range: 30 ... 540 cSt

Applications

- Lubrication circuits
- Paper manufacturing
- Machine-tools
- Hydraulics
- Extraction machines
- Printing machines

Order Details (Example: VKA-1101R0 R15 L)

Measuring range L/min Oil*	Flow monitor with 1 contact	Flow meter with side-display	Flow meter / monitor with 1 contact	Contact	Connection female	Mounting position
0.1 - 0.4	VKA-1101	VKA-2101..	VKA-3101..	..00.. = witout contact (nur VKA-2) ..R0.. = 1 N/O contact ..U0.. = 1 Changeover contact	..R08.. = G 1/4 (upto VKA-...02) ..R10.. = G 3/8 (upto VKA-...04) ..R15.. = G 1/2 (upto VKA-...04) ..N15.. = 1/2 NPT (upto VKA-...06) ..R20.. = G 3/4 (upto VKA-...07) ..N20.. = 3/4 NPT (upto VKA-...07) ..R25.. = G1	..B = from bottom to the top ..L = from left to right ..R = from right to left ..T = from top to
0.35 - 1.25	VKA-1102..	VKA-2102..	VKA-3102..			
1.0 - 3.5	VKA-1103..	VKA-2103..	VKA-3103..			
2 - 6	VKA-1104..	VKA-2104..	VKA-3104..			
5 - 16	VKA-1105..	VKA-2105..	VKA-3105..			
10 - 32	VKA-1106..	VKA-2106..	VKA-3106..			
20 - 60	VKA-1107..	VKA-2107..	VKA-3107..			
30 - 100	VKA-1108..	VKA-2108..	VKA-3108..			

*Measuring ranges in L/min water on request

For further Options, please refer to a similar product in our Catalogue → model VKM-...