Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

KOBOVAR

Viscosity Compensated Flowmeter/Monitor

measuring • monitoring • analysing

VKA

- 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: ±4 % of full scale
- Material: brass
- Connection: G ¼ ... G 1 female, ½" NPT, ¾" NPT

S2

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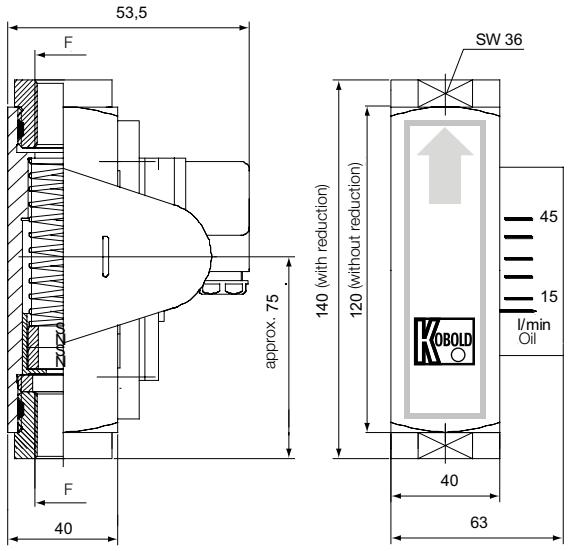
Description

KOBOVAR flowmeters /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 - 540 cSt. All of these units work independent of position. The recommended position, however, is vertical, with flowdirection from below to upwards.

These units are supplied in following versions:

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

Dimensions [mm]



Technical Details

Housing:	Brass, Ms 58, nickel-plated
Connections:	Brass, Ms 58, nickel-plated
Float:	Brass, Ms 58
Orifice:	Stainless steel 1.4310
Spring:	Stainless steel 1.4310
Magnet:	Ceramic-oxide
Sealing:	NBR (for ¼" ... ¾")
Max. temperature:	Ambient: -25 ... +75 °C Medium:-25 ... +100 °C
Max. pressure:	PN 250
Mounting position:	any
Inlet/outlet path:	not necessary
Contact type:	1 N/O contact or 1 change-over contact, adjustable from 10 - 90 % of full scale
Hysteresis:	approx. 3.5 mm float movement
Elect. Connection:	Plug DIN 43 650
Switching Power:	max. 240 V_{AC} / max. 100 VA / max. 1,5 A
Accuracy:	± 4 % of full scale (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 full scale
Repeatability:	≤1 %
Viscosity Range:	30 ... 540 cSt

Applications

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

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

Measuring range l/min Oil*	Flow monitor	Flowmeter with side-display	Flowmeter/ monitor	Contact	Connection female	Mounting position
0.1 - 0.4	**VKA-1101...**	**VKA-2101...**	**VKA-3101...**	**..00..** = without contact (only VKA-2) **..R0..** = 1 contact **..U0..** = 1 changeover contact	**..R08** = G ¼ (up to VKA-..02) **..R10** = G ⅜ (up to VKA-..04) **..R15** = G ½ (up to VKA-..06) **..N15** = ½" NPT (up to VKA-..06) **..R20** = G ¾ (up to VKA-..07) **..N20** = ¾" NPT (up to VKA-..07) **..R25** = G 1	**..B** = from bottom to the top **..L** = from left to right **..R** = from right to left **..T** = from top to bottom
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.

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