

Viscosity-Compensated Flow Meter/Monitor Model FV



- ◆ Measuring Range:
0.1 - 0.4 to 30 - 100 L/min Oil
- ◆ Viscosity Range:
30 - 540 mm²/s
- ◆ Pressure: max. 250 bar
- ◆ Temperature: max. 100 °C
- ◆ Accuracy:
±5% f. s. (at 105 mm²/s)
- ◆ Material: Brass
- ◆ Connection: G 1 (female)
Reduction: G ½, G ¾

**Cost Effective
Measurement Technology**

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No responsibility taken for errors; subject to change without prior notice. 08 / 2007

Description

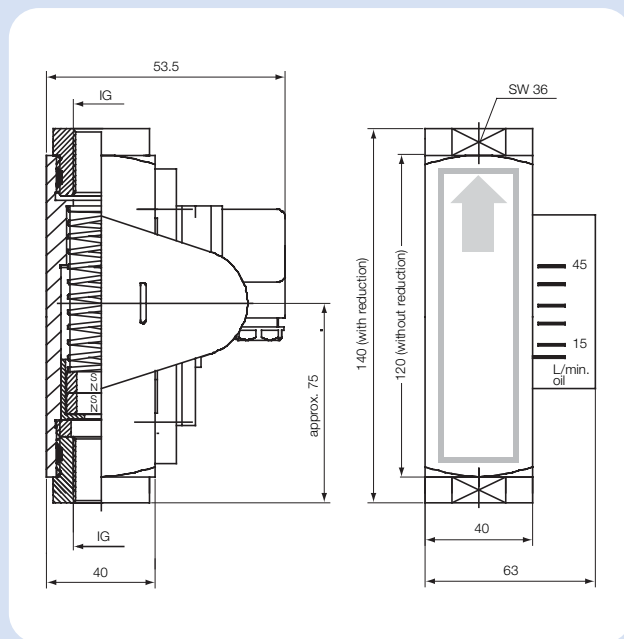
INTERIN flow meters/monitors of model FV have been developed for measuring and monitoring of viscous flow. They employ a special float principle with cylindrical measurement pipe, orifice and spring-loaded suspended float. This ensures an on-going viscous compensation within 30 to 540 mm²/s. All of these units work independent of position. The recommended position, however, is vertical with flow-direction from below to upwards.

These units are available in following versions:

FV-11... Flow monitor with 1 contact

FV-31... Flow meter/monitor with Side-display and contact.

Dimensions



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 (only by optional reduction)
Max. temperature:	Ambient -25...+75°C Medium -25...+100°C
Max. pressure:	PN 250 (PN 160 with reduction)
Mounting position:	Independent
Contact type:	1 N/O contact adjustable from 10-90% f. s.
Electr. connection:	Plug connector acc. to DIN 43 650 N/O contact: 2-pole
Switching power:	max. 240 V _{AC} / max. 100 VA / max. 1.5 A
Accuracy:	±5% f. s. (at a viscosity of 105 mm ² /s)
Measuring error with change in viscosity :	With a change in viscosity within 30...540 mm ² /s the additional deviation amounts up to ±4% f. s.
Repeatability:	≤ 1%
Viscosity Range:	30...540 mm ² /s

Applications

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

Order Details (Example: FV-3100G4)

Meas. Range L/min Oil	Connection* female	Flow Monitor with Contact Order No.	Flow Monitor with Contact and Display Order No.
0.1 - 0.4	G 1	FV-1100	FV-3100
0.35 - 1.25	G 1	FV-1101	FV-3101
1.0 - 3.5	G 1	FV-1103	FV-3103
2 - 6	G 1	FV-1106	FV-3106
5 - 16	G 1	FV-1116	FV-3116
10 - 32	G 1	FV-1132	FV-3132
20 - 60	G 1	FV-1160	FV-3160
30 - 100	G 1	FV-111H	FV-311H

* Please add the appropriate **Connection code for the optional Reduction (G4=G 1/2; G5=G 3/4)** at the end of the Order No.

Please specify the flow direction in writing.