

Viscosity compensated flow controller, metallic DKM



DKM 2



DKM 1

- Operates in all positions
- Blind controller, 1 contact
- Versions: Stainless steel and brass
- Pressure up to 350 bar
- Viscosity: 30 ... 600 cSt
- Flow ranges from 0.5 up to 90 l/min

APPLICATIONS

Control of flow-rate in lubrication pipings or in any compatible skids.

DESCRIPTION

The DKM controls the flow of a liquid, free of suspended particles, having a viscosity between 30 and 600 cSt.

Operation:

The fluid drives a magnetic orifice plate inside the cylindrical measuring tube. A spring balances its movement and allows to operate in all positions. A Reed contact, N.O. without flow, changes of status with the passage of the magnetic orifice plate.

With these equipments, the DKM operates independently of the pressure, even with low flow-rates.

TECHNICAL FEATURES

Temperature limits	-20 ... 120 °C (On request: up to 160 °C)
Flow Scales unit	l/min of oil; Min. S.G. 0.9
Viscosity	30 ... 600 cSt
Accuracy	±10 % F.S.
Pressure drop	0.02 ... 0.4 bar
Flow contact	N.O without flow
Connector	DIN 43650 plug-in socket IP 65

Brass version

Pressure limit	BSP 1": 250 bar; BSP ½": 300 bar
Body, fittings:	Nickel plated brass
Orifice plate	Nickel plated brass
Spring	AISI 316 Ti (1.4571)
Seals	FPM
Magnet	Ferrite

Stainless steel version

Pressure limit	BSP 1": 300 bar; BSP ½": 350 bar
Body, fittings	AISI 316 Ti (1.4571)
Orifice plate	AISI 316 Ti (1.4571)
Spring	AISI 316 Ti (1.4571)
Seals	FPM
Magnet	Ferrite

Other versions: on request

EC Conformity The instrument meets the legal requirements of the current European Directives

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DEB

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SWITCH FEATURES

Adjustment: The housing slides along the body for threshold adjustment; 2 screws fix safely the setting.

Standard supply: N.O. contact without flow

250 V / 3 A / 100 VA (Possibility to reverse the logic in a N.C contact by applying a half-turn to the contact)

OPTION : Change-over contact

Rated: 250 V / 1.5 A / 50 VA

Contacts Ex in correspondance with ATEX directives:

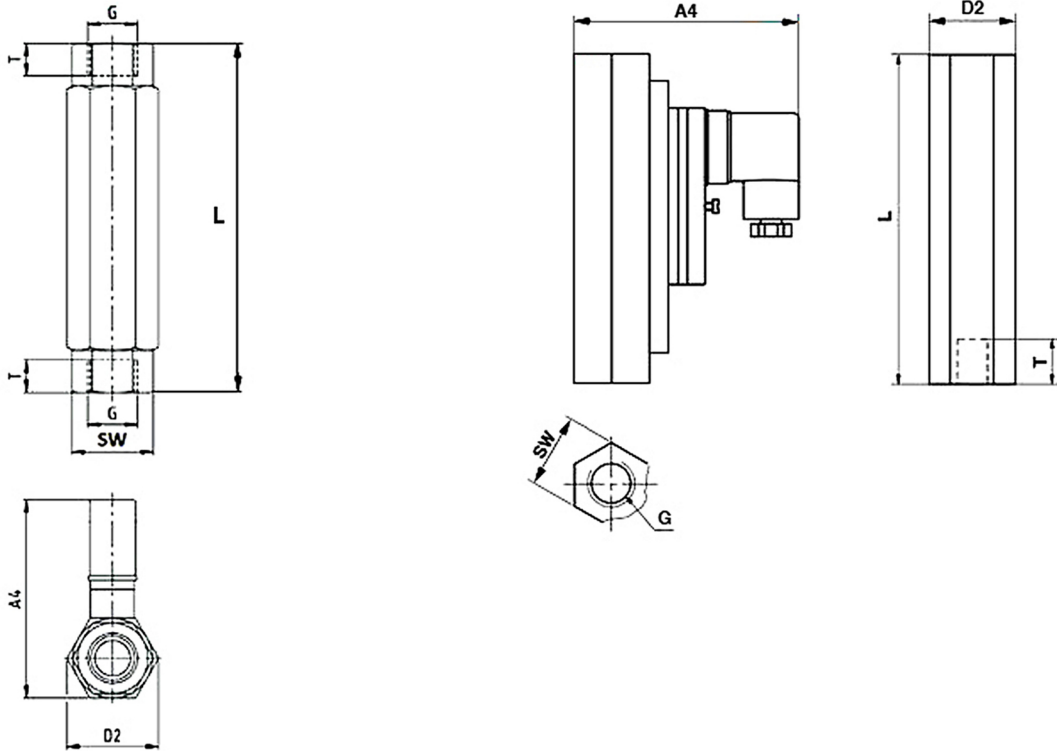
ATEX II 2 G Ex mb II T6 & ATEX II 2 D Ex tD A21 IP67 T80 °C

ATEX II 2 G Ex mb II T5 & ATEX II 2 D Ex tD A21 IP67 T100 °C

N.O. Contact: 250 V / 2 A / 60 VA; Change-over contact: 250 V / 1 A / 30 VA

CODE NUMBERS AND REFERENCES - DIMENSIONS

Code		Reference	Flow range [l/min]	Fittings BSPF G	Dimensions [mm]					Mass [g]
Brass	AISI 316 Ti				D2	L	A4	T	SW	
723 115	723 215	DKM - 2/2	0.5 ... 1.6	1/2"	31,2	90	67	14	27	350
723 117	723 217	DKM - 2/3	0.8 ... 3.0							
723 119	723 219	DKM - 2/7	2...7							
723 123	723 223	DKM - 1/2	0.5 ... 1.5	1"	40	130	98	17	40	1160
723 127	723 227	DKM - 1/4	1...4							
723 131	723 231	DKM - 1/8	2...8							
723 134	723 234	DKM - 1/10	3...10							
723 138	723 238	DKM - 1/15	5...15							
723 142	723 242	DKM - 1/24	8...24							
723 146	723 246	DKM - 1/30	10...30							
723 150	723 250	DKM - 1/45	15...45							
723 154	723 254	DKM - 1/60	20...60							
723 158	723 258	DKM - 1/90	30...90							



Flow-rates are for oil ISO VG 46 (124 cSt at 20 °C).

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