

# Viscosity compensated flow controller/ indicator, metallic DKM/A



- Operates in all positions
- Indicator, plus 1 adjustable contact
- Versions: Stainless steel and brass
- Pressure up to 300 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/A monitors and indicates the flow in piping of a fluid free of suspended particles and with a viscosity between 30 and 600 cSt.

### Operation:

The liquid drives a magnetic orifice plate inside the cylindrical measuring tube. A spring balances its movement and allows to operate in all positions. An adjustable Reed contact changes of status with the passage of the magnetic orifice plate and drives the indicator pointer. The magnetic torque coupling performs in such a way that the indication can not be lost even with fast changing of flow speed.

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

## TECHNICAL FEATURES

Temperature limits	-20 ... 120 °C
Scale 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	250 bar
Body and fittings	Nickel-plated brass
Diaphragm	Nickel-plated brass
Spring	AISI 316 Ti (1.4571)
Seals	FPM
Magnet	Ferrite
Indicator	Makrolon® / Nickel-plated brass

### Stainless steel version

Pressure limit	300 bar
Body and fittings	AISI 316 Ti (1.4571)
Diaphragm	AISI 316 Ti (1.4571)
Spring	AISI 316 Ti (1.4571)
Seals	FPM
Magnet	Ferrite
Indicator	Makrolon® / Nickel-plated brass

*Other versions: On request*

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

**BAMO** INTERNATIONAL

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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

Rated: 230 V / 3 A / 100 VA (Possibility to reverse the logic to N.C. by applying a half-turn to the contact)

### OPTION : Change-over contact

250 V / 1.5 A / 50 VA

### Contacts Ex in correspondance with ATEX directives:

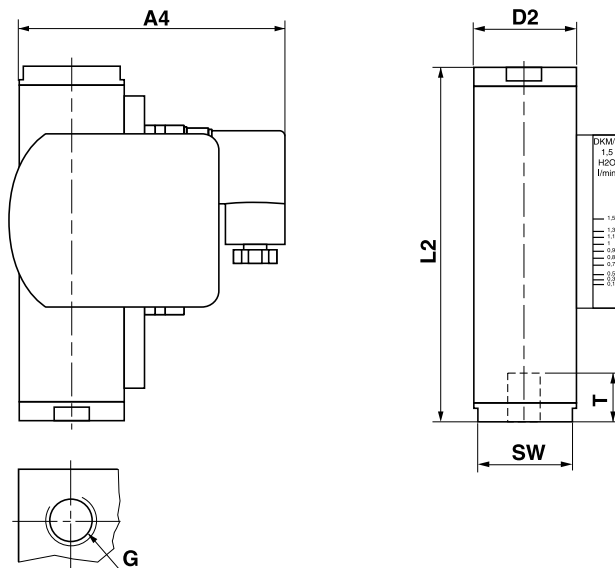
ATEX II 2 G Ex mb II T6 & ATEX II 2 D Ex tD A21 IP67 T80 °C

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; Changeover contact: 250 V / 1 A / 30 VA

## CODE NUMBERS - REFERENCES - DIMENSIONS

Code		Reference	Flow range [ l/min ]	Fittings BSPF G	Dimensions [mm]					Mass [g]
Brass	AISI 316 Ti				D2	L2	A4	T	SW	
723 517	723 617	DKM/A - 1/2	0.5 ... 1.5	1" G	40	130	98	17	40	1210
723 519	723 619	DKM/A - 1/4	1...4							
723 521	723 621	DKM/A - 1/8	2...8							
723 522	723 622	DKM/A - 1/10	3...10							
723 523	723 623	DKM/A - 1/15	5...15							
723 525	723 625	DKM/A - 1/24	8...24							
723 527	723 627	DKM/A - 1/30	10...30							
723 529	723 629	DKM/A - 1/45	15...45							
723 531	723 631	DKM/A - 1/60	20...60							
723 533	723 633	DKM/A - 1/90	30...90							



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

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