

Flow controller SKM



- Operates in any position
- 1 Switch plus flow-rate indicator
- Connections : 1.4571 stainless steel or nickel-plated brass
- Pressure up to 10 bar
- Ranges: From 1.5 ... 4.5 up to 30 ... 90 l/min

APPLICATIONS

The SKM is designed for monitoring cooling circuits, high-pressure washing circuits, pump safety, etc.
It can measure water, oils or other liquids flowrate independently from the alignment of the device.

DESCRIPTION

An orifice plate equipped with a magnet (piston with magnet) is subjected to the pressure of the fluid to be monitored within a cylindrical tube. A compensated spring balances the movement of the piston and allows operation in any mounting position. The piston is visible through a graduated glass tube. A bistable reed switch, normally open when there is no flow, is mounted on an external sliding rail and is actuated by the passing of the magnetic piston.

- The top edge of the float serves as the reading reference point.
- The scale is graduated in l/min of water (20 °C)
- The switch setting can be adjusted throughout the entire measuring range thanks to the sliding guide.
- The actual flow rate may exceed the calibrated range without damaging the device, though it will result in higher pressure loss.

These devices must be installed on fluids free of suspended particles and away from any magnetic induction sources.

TECHNICAL FEATURES

Versions & technical data

SKM	Indicator
SKM-RK1	Indicator with 1 contact (N.O.)
Scale unit	l/min
Scale factor	1:3
Accuracy	4 % F. S.
Repeatability	2 % F. S.
Liquid temperature	0...+100 °C (down to -20 °C with FPM seal) The liquid must not freeze
Ambient temperature	-20/0...+50 °C
Operating pressure	Max. 10 bar

Materials

Fittings	1.4571 stainless steel or nickel-plated brass
Piston	1.4571
Body	1.4301
Reading tube	Borosilicate glass
Protection screen	Plexiglas
Seals	NBR (Options: FPM, EPDM)
Fittings	BSP-F (DIN EN ISO 228) G 1¼", G 1½", G ¾", G 1"

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DEB

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Contact Characteristics

The contact block incorporates a reed switch (ILS) housed in a polyamide block with cable outlet. It is essential to respect the switching capacity and to protect the contacts as much as possible.

The contact is guided along a slot located at the back of the protective tube, and can be adjusted across the entire measuring range. Each contact exhibits bistable behavior, thanks to the short travel of the piston.

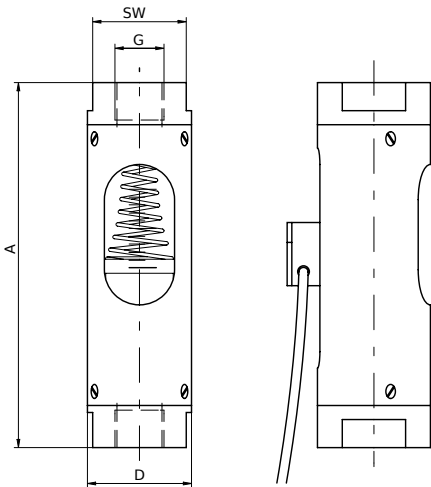
To ensure optimal protection, it is recommended to protect the contacts from inductive or capacitive surges by using a protection relay (e.g. MSR type). This protection increases the switching capacity and ensures long service life of the contacts.

Switching power	50 V AC / 0,2 A / 10 VA
	75 V DC / 0,2 A / 10 W
Status	NO (Normally Open)
Status indication	Yellow LED
Protection rating	IP 67 (IEC 529)
Directive	Directive 2014/35/EU – Low Voltage Directive (LVD)

CODE NUMBERS & RANGES

Measuring range (H ₂ O)	Fittings BSPP female threaded	max. pressure loss [mbar]	Fittings BSPP female threaded	max. pressure loss [mbar]
1,5 - 4,5 l/min	1/4" or 1/2"	630	3/4" or 1"	630
2,5 - 8 l/min	1/4" or 1/2"	695	3/4" or 1"	695
5 - 15 l/min	1/4" or 1/2"	800	3/4" or 1"	725
10 - 30 l/min	1/4" or 1/2"	1075	3/4" or 1"	650
15 - 45 l/min	-	-	3/4" or 1"	730
20 - 60 l/min	-	-	3/4" or 1"	750
30 - 90 l/min	-	-	3/4, 1, 1 1/4, 1 1/2, 2	910
90 - 280 l/min	-	-	1 1/4, 1 1/2, 2	-

DIMENSIONS



G	A	SW	D
1/4	156	40	48,3
1/2	156	40	48,3
3/4	156	40	48,3
1	156	40	48,3
1 1/4	200	80	89
1 1/2	200	80	89
2	200	80	89



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