

FLOW RATE INDICATOR AND CONTROLLER BMV



- For vertical mounting
- By side analogical indicator
- Free of pressure changes effect
- Brass or stainless steel construction
- 1 adjustable switch
- Range from 0.1 to 50 L/min in 7 scales
- 300 bar as a maximum (water at 20°C)
- 100°C as a maximum

DESCRIPTION

The BMV flow rate indicator is a variable area flow rate indicator. The instrument must be mounted on a vertical pipe with ascending flow. The acceptable fluid viscosity is close to water viscosity. These instruments may be available for airflow rate indication and control: on request.

The built in magnet of the diver drives the indicator. Coupling of both devices allow a continuous indication even with quick changes in the flow rate. The Reed contact, by side, is continuously adjustable. The switch is bi-stable and NO (*normally open with flow less*). It acts when the diver passes in front of it.

TECHNICAL FEATURES

Maximal pressure	Brass: 200 bar Stainless steel: 300 bar
Temperature:	0...100°C (160°C on request)
Scale:	In L/min of water at 20°C
Accuracy:	5 %
Bi-stable switch	NO (<i>flow less</i>), 250 V / 1.5 A / 50 VA Protection: IP 65 Connector: 43650 – cable inlet: PG 9
Brass model	wetted parts: brass and NBR seals
Stainless steel model	wetted parts: SS316 and FPM seals
Options (on request)	
Switch:	Change over contact ATEX certified switch for Ex area
Seals:	FPM, NBR, EPDM

Caution:

Verify the right correspondence of the switching power of the switch and your process device. A protective relay is described on data sheet 250-02.

BAMO MESURES

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DEB

721-01/1

CODE NUMBERS AND REFERENCES

Type	Brass	Stainless steel	Range water 20°C, L/mn	R	S/P mm	D mm	D ₁ mm	B mm	T mm	L mm	Mass g
BMV-1 R	721 300	721 500	0,1 - 1,5	¼"	27	30	47	71	14	131	850
BMV-3 R	721 310	721 510	0,2 - 3,0	¼"	27	30	47	71	19	131	850
BMV-8 R	721 320	721 520	0,3 - 8,0	¼"	27	30	47	71	19	131	850
BMV-12 R	721 330	721 530	1 - 12	¼"	27	30	47	71	19	131	850
BMV-18 R	721 340	721 540	2 - 18	½"	27	30	47	71	17	148	1 010
BMV-35 R	721 345	721 545	3 - 35	¾"	34	40	57	76	18	152	1 500
BMV-50 R	721 350	721 550	4 - 50	1"	40	40	57	76	19	156	1 500

SWITCHES: Features

The switch fits on the dovetail (*rear face*) and is continuously adjustable; the position is secured with a blocking screw. The plastic DIN plug (*DIN 43650*) is IP65, with a cable inlet PG9.

Standard contact, NO (flow less)

Max. 230 V / 1 A / 50 VA

Change over contact (*Option*)

Max. 250 V / 1.5 A / 50 VA

ATEX certified contact

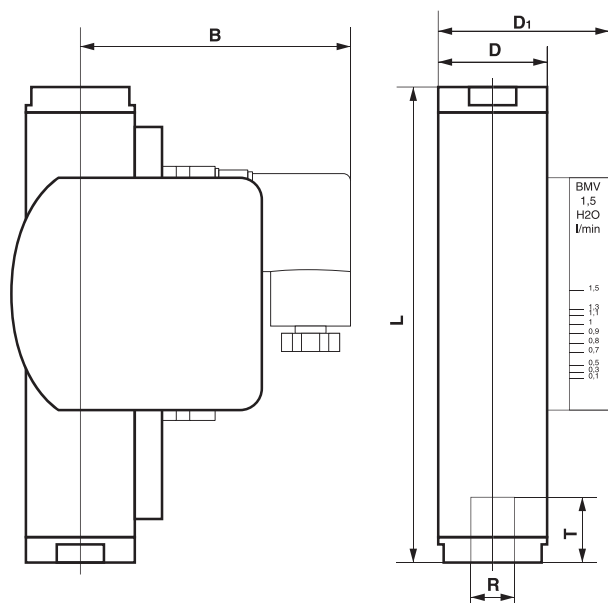
EEx m T6 - **NO** max. 250 V / 2 A / 60 VA – Change over contact max. 250 V / 1 A / 30 VA

Atex II 2G EEx m II T6 - **NO** max. 250 V / 2 A / 60 VA – Change over contact max. 45 V / 1 A

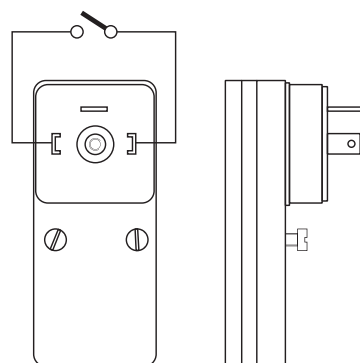
MOUNTING

- The flow indicators BMV are designed for a vertical mounting with an ascending flow.
- The fluid should be free of solid particles (*a filter could be used before the BMV*).
- All area must be free of magnetic fields.
- The fittings and or adaptors must be non-magnetic (*made of brass, stainless steel or plastic*).
- Any magnetic device should be at least above 10 cm from the BMV.

DIMENSIONS



The detection loop is OPEN when the flow rate is lower than the trigger point.



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