

FLOWMETER AND FLOW-SWITCH BV - BR



- BV-R : Reading + 1 switch.
- B-R : blind + 1 switch.
- Adjustable switch set-point.
- Realised in brass or stainless steel.
- Fluid : water.
- Vertical mounting.
- Range from 0,1 up to 150 l/mn of water.

PRINCIPLE

The flow monitors operate on the principle of the float type flow indicator. The float contains permanent magnets. The reed switch is mounted in an adjustable switch housing external to the flow circuit. The flowing medium raises the float in the direction of flow, as soon as the float with its permanent magnets reaches the set-point of the reed switch it will close the contact. As the flow increases, the float rises further i.e. the contact remains closed and thus ensure bistable switching.

MOUNTING

- The flow monitor must be installed vertically in the flow circuit.
- Flow direction is from bottom to top.
- Flow media must be free of particle contamination, otherwise the instruments will not function properly. We recommend the use of dirt filters type SF or SFD.
- The flow monitors must not be positioned in inductive fields. Minimum distance from iron parts : 10 mm.

FUNCTION RANGE

- The upper float ridge is the reading point.
- The scale reading is l/mn of water
- The switch is adjustable on all the range.
- The flow can exceed the range but there were more drop pressure.

TECHNICAL DATA

Pressure	: 10 bars BV-R 100 bars B-R and 300 bars B-R S.Steel
Drop pressure	: 0,01 - 0,2 bar BV-R 0,02 - 0,4 bar B-R
Temperature max.	: 120 °C (160°C FPM)
Float	: Nickered brass or S.Steel 316 Ti
Connection	: Nickered brass or S.Steel 316 Ti
Glass	: Duran 50
Gasket	: NBR
Body	: Aluminium anodised
Accuracy	: ± 5 % F. S.
Electrical connection	: DIN 43650

Options

Gasket	: FPM or EPDM
Switch	: change-over 220 V / 1 A / 50 VA
Air scale	: @ 1 bar absolu only. (see page 720/2)

BAMO MESURES

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FLOW-SWITCH
BV - BR

DOC

720/1

BV-... R : Indication + 1 switch

Type	Range l/mn water	R	Code		Dimensions (mm)					Weight Gr
			Brass	S.Steel	D	L	B	T	SW	
BV - 1 R	0,1 - 1,5	¼"	720 200	720 400	43	132	67	14	32	625
BV - 3 R	0,2 - 3	¼"	720 210	720 410	43	132	67	14	32	625
BV - 8 R	0,3 - 8	¼"	720 220	720 420	43	132	67	14	32	625
BV - 12 R	1 - 12	¼"	720 230	720 430	43	132	67	14	32	625
BV - 18 R	2 - 18	½"	720 240	720 440	43	163	67	15	32	650
BV - 35 R	3 - 35	¾"	720 245	720 445	50	152	70	18	41	1 000
BV - 50 R	4 - 50	¾"	720 250	720 450	50	152	70	18	41	1 000
BV - 100 R	10 - 100	1"	720 255	720 455	50	200	70	20	41	1 100
BV - 150 R	10 - 150	1" ¼	720 260	720 460	55	222	75	21	46	1 300

B -... R : BLIND + 1 switch

Type	Range l/mn water	R	Code		Dimensions (mm)					Weight Gr
			Brass	S.Steel	D	L	B	T	SW	
BV - 1 R	0,1 - 1,5	¼"	720 300	720 500	30	130	65	14	27	800
BV - 3 R	0,2 - 3	¼"	720 310	720 510	30	130	65	14	27	800
BV - 8 R	0,3 - 8	¼"	720 320	720 520	30	130	65	14	27	800
BV - 12 R	1 - 12	¼"	720 330	720 530	30	130	65	14	27	800
BV - 18 R	2 - 18	½"	720 340	720 540	30	148	65	15	27	850
BV - 35 R	3 - 35	¾"	720 345	720 545	40	152	70	18	34	1 350
BV - 50 R	4 - 50	¾"	720 350	720 550	40	152	70	18	34	1 350
BV - 100 R	10 - 100	1"	720 355	720 555	50	200	75	20	50	2 750
BV - 150 R	10 - 150	1" ¼	720 360	720 560	50	200	75	21	50	2 900

AIR SCALE

It is possible to get this kind of flowswitch with air scale at 1 Bar ABS. Take care of suddenly over-pressure, that can destroy the flowswitch.

Type	Air range NI/mn
1 R	2 - 30
3 R	4 - 60
8 R	6 - 160
12 R	20 - 240
18 R	40 - 360
35 R	60 - 700
50 R	80 - 1 000
100 R	200 - 2 000
150 R	200 - 3 000

SWITCHES

- Switch point adjustment :

The arrow marking the switch-off point is positioned in line with the required flow rate, marked on the scale attached to the body. Adjustment is done by sliding the switch on a guide. A screw allows to keep its positioned.

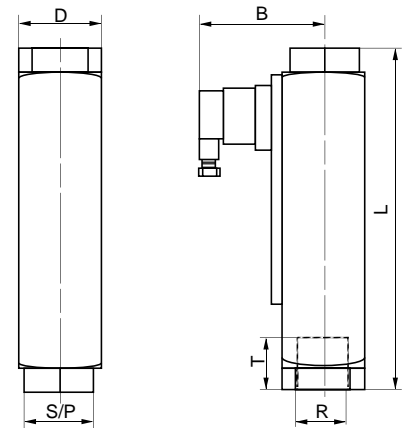
The switch is realised with a reed ampoule enclosed in a polyamide block. The output connection is made through an IP 65 connector with a PE 7 stuffing box.

Simple (standard) : NO (no flow) 250 V - 3 A - 100 VA. You can change this function for NC by rotation of 180° the switch.

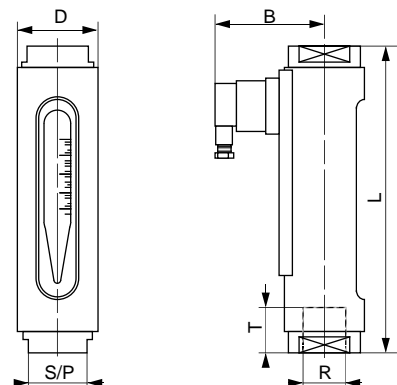
Change-over : 500 V - 1,5 A - 50 VA

Change-over ADF : 220 V - 0,7 A - 60 VA

Protection : IP 65, IP 67 for ADF



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