



LIQUID FLOW SWITCHES

FUNCTION

Liquid flow control for non aggressive liquid with small and medium quantity. The units cause a low pressure drop and present a high reliability.

Alarm signal of flow shortage (safety switch).

APPLICATIONS

Well-suited in:

- heating and air conditioning systems;
- refrigeration systems;
- devices for oil monitoring;
- lubrification circuits.

TYPE	FITTING	SETTING RANGE	MAX. FLOW RATE RECOMMENDED	PRESSURE LOSS (MAX FLOW RATE)	TOLLERANCE
	G	l∕min H₂O	I/min H₂O	bar	± % VF (*)
DB3-10MI	3/8″	4.0 - 5.5	10	0.01	15
DB3-15MI	1/2″	5.5 - 7.0	20	0.01	15
DB3-20MI	3/4″	7.5 - 10.0	40	0.01	15
DB3-25MI	1″	14 - 18	60	0.01	15
DB3-32MI	1 1/4″	22 - 30	80	0.01	15
DB3-40MI	1 1/2″	37 - 50	100	0.01	15
DB3-50MI	2"	67 - 93	150	0.01	15

(*) VF end of scale

TECHNICAL FEATURES

dust-tight microswitch with gold SPDT **Contacts:**

contacts 5 A, 250 Vac

Switch capacity: Max fluid

+110 °C

temperature: Max pressure:

25 bar Differential: see schedule Hysteresis: min. 0.7 l/min

connector female DIN 43650-A Plug:

Storage: -20...+70 °C POM Housing:

brass nickel plated Body: Paddle: stainless steel Sealing: **NBR**

Protection: IP65, class I see diagram Size: Weight: see table

ELECTRICAL WIRING

The microswitch contact "C" (common) and "NO" (normally open) is already wired for use and provided with a 1,5 m cable.

This contact opens when the value drops below the set switch-off value.

The "NC" contact (normally closed) can be used as a signal contact (fig.1).

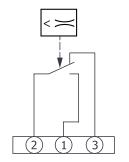


fig. 1

FUNCTIONING

The stainless steel paddle moves because of flow that is stronger than spring return. The end arm part is mounted on a primary magnet. It actuates a secondary magnet that is external to flow and is mounted on the microswitch contact lever.

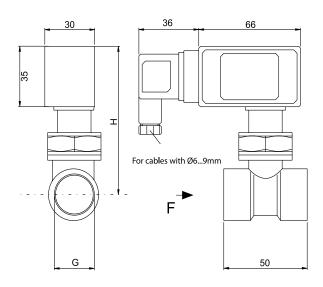


NOTE

After the cap nut has been removed the switch-off value can be changed slightly by adjustment of indicator between the minimum and the maximum.

During installation take care to the correct flow direction. A straight zone of at least 5 \times D must be provided upstram and downstream the location of installation.

DIMENSIONS (mm)



G	DN	H (mm)	WEIGHT (g)
3/8″	10	87	300
1/2″	15	87	300
3/4"	20	88	346
1″	25	92	386
1 1/4"	32	96	518
1 1/2"	40	99	642
2″	50	108	990

