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Product Information

Flow Switch FM-...GR



FM-008..015GR

Installation location Standard: horizontal inwards flow; switching head not recommended underneath; other installation positions are possible; the installation position affects the switching point and range.

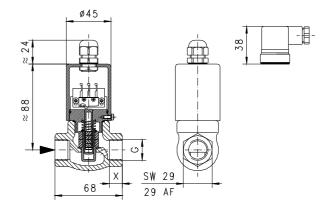
Ranges

Details in the table correspond to horizontal inwards flow with decreasing flow rate.

G	DN	Switching point I/min H ₂ O Choose between	Types	Q _{max.} recommended		
G ¹ / ₄	DN 8	0.4 - 9	FM-008GR009	10		
G ³ / ₈	DN 10	0.4 - 10	FM-010GR010	15		
G ¹ / ₂	DN 15	0.4 - 12	FM-015GR012	20		
Special ranges are available						

Dimensions and weights

G	Types	X	Weight kg
G ¹ / ₄	FF-008GR	12	0.65
G ³ / ₈	FF-010GR		
G ¹ / ₂	FF-015GR	13	0.60



•	۸di	Instad	switching	value
	Au	Jusieu	Switching	value

- Highly reproducible
- Insensitive to dirt
- High switching power

Characteristics

The volume flow raises a piston (fitted with a magnet) out from a valve seat against a spring force. The piston uses a magnetic coupling to actuate a hermetically separated micro switch.

Technical data

Switch	micro switch		
Nominal width	DN 815 (DN 2080 available on request)		
Process	female thread G ¹ / ₄ G ¹ / ₂		
connection			
Adjustment range	0.412 l/min	for details see	
Q _{max.}	to 20 I/min	table "Ranges"	
Tolerance	±3 % of the switching value, minimum ±0.3 l/min		
Pressure	PN 200 bar		
resistance			
Medium	-20+90 °C		
temperature			
Ambient	-20+70 °C		
temperature			
Media	Water (oils and gases available on request)		
Wiring	changeover no. 0.450 N		
Switching voltage	max. 250 V AC		
Switching current	max. 6 A		
Protection class	1 - PE connection		
Ingress protection	IP 65		
Electrical	plug-in connection on the microswitch		
connection	2.8 x 0.5, cable screw gland Pg 9. optionally DIN 43650-A plug		
Materials	Rg 5 nickelled, 1.4310, CW614N nickelled,		
medium-contact	CW614N, NBR, hard ferrite		
Non-medium-	PS, PA		
contact materials			
Weight	see table "Dimensions and weights"		

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Product Information

Handling and operation

- Include straight calming section of 5 x DN in inlet and outlet.
- If the media are dirty, install a filter (use magnetic filter for ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switched on, a load must be connected in series.
- The electrical details apply to ohmic loads. Capacitive, inductive and lamp loads must be operated using a protective circuit.

GHM-HONSBERG

FM-008..015GR

Ordering code

1. 2. 3. 4. FM - G R					
1.	Nominal width				
	008	DN 8-G ¹ / ₄			
	010	DN 10 - G ³ / ₈			
	015	DN 15 - G ¹ / ₂			
2.	Process	Process connection			
	G	female thread			
3.	Connecti	onnection material			
	R	red bronze			
4.	Switching point H ₂ O can be set as desired between				
	009	0.4 - 9 l/min			٠
	010	0.4 - 10 l/min		٠	
	012	0.4 - 12 l/min	٠		

Options

- Nominal width DN 20..80
- Adjustment for oil or gas
- Special values
- Plug DIN 43650-A / ISO 4400
- Signal lamp red or red / green in the plug

Ordering information

- Specify direction of flow, medium, and switching point.
- For oils, state viscosity, temperature and designation
- (e.g. ISO VG 68) (enquire about range).
- For gases, state pressure (relative or absolute), temperature and medium (e.g. air) (enquire about range).

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