

Product information

**Flow switch
FWJ-...GM**



- Flow rate display
- Solid construction
- Metal switching head

Characteristics

Mechanical flow switch for fluid media, with spring-supported piston and magnetic triggering of a reed switch and a display separated from the medium. Robust construction in brass

Technical data

Switch	Reed switch	
Nominal width	DN 8 – 20	
Process connection	Female thread G1/4, G 3/8, G1/2, G3/4 (further process connections available on request)	
Switching range	1 - 16l/min	For details see table "Ranges"
Pressure loss	~1 bar at Q _{max.}	
Q_{max.}	to 40 /min	
Tolerance	±10 % of full scale value	
Pressure resistance	PS 100 bar	
Medium temperature	-20..+90 °C	
Ambient temperature	-20..+70 °C	
Media	Water	
Wiring	normally No. 0.378	
Switching voltage	max. 230 V AC	
Switching current	max. 0.5 A	
Switch performance	max. 50 VA	
Protection class	2 - Safety insulation	
Ingress protection	IP 67	
Electrical connection	For round plug connector M12x1, 4-pole	
Materials medium-contact	CW614N nickelled, CW614N, CW602N , 1.4310 hard ferrite	
Non-medium-contact materials	AlSi or POM, 1.4301, 1.4305	
Weight	see table "Dimensions and weights"	

Installation location

Standard: horizontal inwards flow; other installation positions are possible; the installation position affects the switching/display range.

Ranges

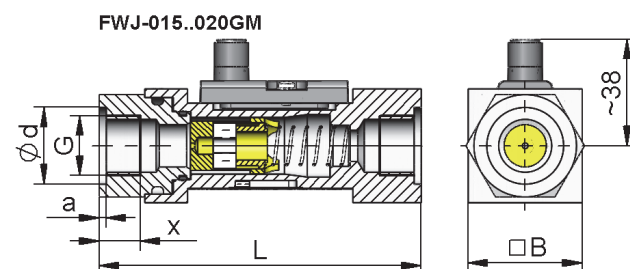
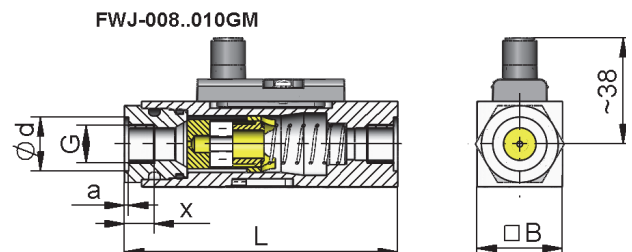
Details in the table correspond to horizontal inwards flow with decreasing flow rate.

G	DN	Switching range l/min H ₂ O	Display l/min H ₂ O	Q _{max.} recommended l/min for ranges	
				1 - 4 / 2 - 10	8 - 16
G 1/4	DN 8	1 - 5	1 - 6	18	20
G 3/8	DN 10	2 - 10	2 - 12	20	30
G 1/2	DN 15	8 - 16	6 - 20	25	40
G 3/4	DN 20			25	40

Special ranges available on request

Dimensions and weights

G	Types	L	B	X	Ød	a	SW	Weight kg
G 1/4	FWJ-008GM	96	30	10.5	19	1.5	27	0.61
G 3/8	FWJ-010GM	96	30	11.0	23	2	27	0.58
G 1/2	FWJ-015GM	113	40	14.5	27	2.5	36	1.09
G 3/4	FWJ-020GM	113	40	14.5	33	2.5	36	1.01



Product information

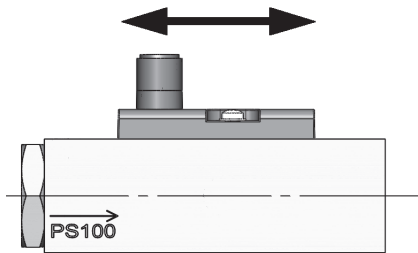
Handling and operation

Note

- Include straight calming section of 5 x DN in inlet and outlet
- Include a filter if the media are dirty (use magnetic filter for fer-ritic 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.

Adjustment

Loosen screws slightly, push the switching head into the desired position, and then retighten the screws.



Ordering code

1. 2. 3. 4. 5.
 FWJ

1. switching head					
-	no switching head				
K2 -	Plastic switching head				
K4 -	AlSi switching head				
2. Nominal width					
008	DN 8 - G 1/4				
010	DN 10 - G 3/8				
015	DN 15 - G 1/2				
020	DN 20 - G 3/4				
3. Process connection					
G	Female thread				
4. Connection material					
M	Brass				
5. Switching range H₂O for horizontal inwards flow					
004	1 - 4 l/min		●	●	●
010	2 - 10 l/min		●	●	●
016	8 - 16 l/min		●	●	●



FWJ-



FWJK2-



FWJK4-

Options

- Switching value for oil
- Special values
- Cable outlet

Ordering information

- Specify direction of flow, medium, and switching range.
- For oils. State viscosity, temperature and designation (e.g. ISO VG 68) (enquire about switching range).