

**Product Information**

**Flow Switch FW1-...GM**



- Economical design
- High switching power
- Insensitive to dirt

**Characteristics**

Mechanical flow switch, for fluid media, with spring-supported piston and magnetic triggering of a reed switch. Robust construction in brass and POM.

**Technical data**

Switch	reed switch		
Nominal width	DN 8..25		
Process connection	female thread G 1/4..G 1 (further process connections available on request)		
Switching range	1..11 l/min	for details see table "Ranges"	
Pressure loss	0.2..0.8 bar at Q <sub>max.</sub>		
Q <sub>max.</sub>	to 30 l/min		
Tolerance	±10 % of full scale value		
Pressure resistance	PN 100 bar optionally up to PN 800 bar		
Media temperature	-20..+90 °C		
Ambient temperature	-20..+70 °C		
Media	water (oils and aggressive media available on request)		
Wiring	normally open (n.o.) No. 0.378		
Switching voltage	max. 230 V AC		
Switching current	max. 0.5 A		
Switching capacity	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, POM, 1.4310, hard ferrite		
Non-medium-contact materials	PC, 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 point and range.		

**Ranges**

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

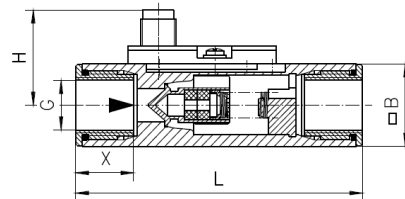
G	DN	Switching range l/min H <sub>2</sub> O	Q <sub>max.</sub> recommended	Pressure loss bar at Q <sub>max.</sub> H <sub>2</sub> O
G 1/4	DN 8	1 - 6	8	0.2
G 3/8	DN 10		10	0.3
G 1/2	DN 15		20	0.8
G 3/4	DN 20	1 - 11	30	0.2
G 1	DN 25			

Special ranges are available.

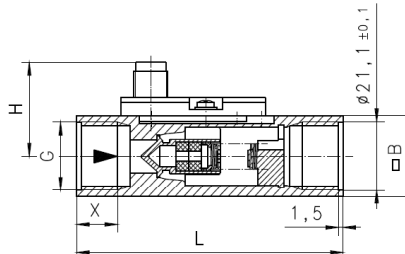
**Dimensions and weights**

G	Types	L	H	B	X	Weight kg
G 1/4	FW1-008GM	89	30	25	18	0.35
G 3/8	FW1-010GM					
G 1/2	FW1-015GM	85	36	36	12	0.30
G 3/4	FW1-020GM	100			18	0.75
G 1	FW1-025GM				38	40

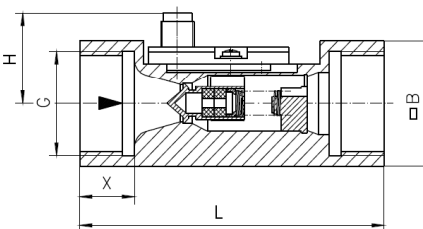
FW1-008..010GM



FW1-015GM



FW1-020..025GM



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**Product Information**

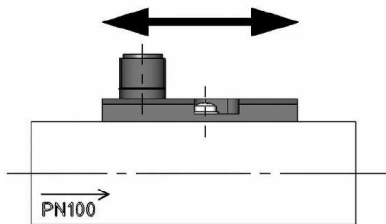
**Handling and Operation**

**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 ferritic components).
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- When switch 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 screw slightly, push the switching head into the desired position, and then retighten the screw.



**Ordering code**

FW1 -  1.  2.  3.  4.  
 FW1 -  **G**  **M**

<b>1. Nominal width</b>					
008	DN 8 - G 1/4				
010	DN 10 - G 3/8				
015	DN 15 - G 1/2				
020	DN 20 - G 3/4				
025	DN 25 - G 1				
<b>2. Process connection</b>					
G	female thread				
<b>3. Connection material</b>					
M	brass				
<b>4. Switching range H<sub>2</sub>O for horizontal inwards flow</b>					
006	1 - 6 l/min			●	●
011	1 - 11 l/min			●	●

**Options**

- Switching value for oil
- Special values
- Cable outlet 3 m
- Pressure stages PS 500 and PS 800 for DN 15

**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).

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