



# 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

Technical data					
Switch	reed switch				
Nominal width	DN 825				
Process connection	female thread G ¹/₄G 1 (further process connections available on request)				
Switching range	111 l/min				
Pressure loss	0.20.8 bar at Q <sub>max</sub> .				
Q <sub>max</sub> .	table "Ranges"				
Tolerance	±10 % of full scale val	ue			
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	not used 1			
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 connec	tor 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 installation positions installation position point and range.	,			

#### Ranges

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

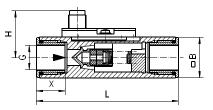
G	DN	Switching range I/min H <sub>2</sub> O	<b>Q</b> <sub>max.</sub> recommended	Pressure loss bar at Q <sub>max.</sub> H <sub>2</sub> O
G <sup>1</sup> / <sub>4</sub>	DN 8	1 - 6	8	0.2
G 3/8	DN 10		10	0.3
G 1/2	DN 15		20	8.0
G 3/4	DN 20	1 - 11	30	0.2
G 1	DN 25			

Special ranges are available.

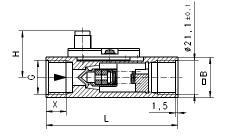
## **Dimensions and weights**

G	Types	L	Н	В	Х	<b>Weight</b> kg
G 1/4	FW1-008GM	89	30	25	18	0.35
G 3/8	FW1-010GM					
G 1/2	FW1-015GM	85			12	0.30
G 3/4	FW1-020GM	100	30	36	18	0.75
G 1	FW1-025GM		30	40		0.85

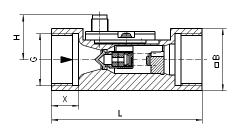
FW1-008..010GM



FW1-015GM



FW1-020..025GM











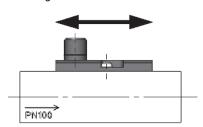
## **Handling and Operation**

#### 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

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

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



