

Flow Switch FW1-...GP

- 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 POM material.

Technical data

Switch	reed switch			
Nominal width	DN 1525			
Process	female thread G ¹ / ₂ G 1			
connection	(note: for plastic parts it is not possible to			
	guarantee trueness of calibration; further process connections available on request)			
Switching range	111 l/min			
Switching range		for details see		
Pressure loss	0.20.8 bar at Q _{max.}	table "Ranges"		
Q _{max.}	to 30 l/min			
Tolerance	±10 % of full scale value			
Pressure	PN 10 bar			
resistance				
Media	-20+90 °C			
temperature Ambient	-20+70 °C			
temperature	-20+70 C			
Media	water (eil available on re	auost)		
	water (oil available on request)			
Wiring	normally open (n.o.) not			
	110.0.370	used		
		$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \end{array}$		
	I	2 3 4		
Switching voltage	max. 230 V AC			
Switching current	max. 0.5 A			
Switching	max. 50 VA			
capacity				
Protection class	2 - safety insulation			
Ingress protection	IP 67			
Electrical	for round plug connector	M12x1, 4-pole		
connection				
Materials	POM GV, POM, 1.4310,	hard ferrite		
medium-contact				
Non-medium-	PC, 1.4301, 1.4305			
contact materials				
Weight	see table "Dimensions a			
Installation	Standard: horizontal ir	,		
location	installation positions are possible; the			
	installation position affects the switching			
	point and range.			

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Ranges

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

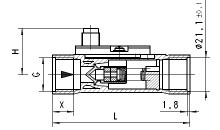
G	DN	Switching range I/min H₂O	Q _{max.} re- com- men- ded	Pressure loss bar at Q _{max.} H ₂ O
G ¹ / ₂	DN 15	1-6	20	0.8
G ³ / ₄	DN 20	1 - 11	30	0.2
G 1	DN 25			

Special ranges are available.

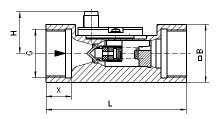
Dimensions and weights

G	Types	L	Н	В	SW	X	Weight kg
G ¹ / ₂	FW1-015GP	85	30	-	27	12	0.05
G ³ / ₄	FW1-020GP	100	32	36	-	18	0.15
G 1	FW1-025GP		32	40			0.20

FW1-015GP











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FW1-015..025GP



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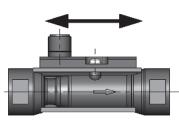
Handling and Operation

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	Ρ	

1.	Nominal width				
	015	DN 15 - G ¹ / ₂			
	020	DN 20 - G ³ / ₄			
	025	DN 25 - G 1			
2.	Process connection				
	G	female thread			
3.	Connection material				
	Р	POM			
4.	Switching range H ₂ 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

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).



