

# FF81P - FF91P

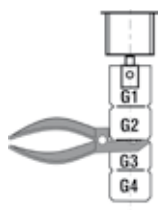
## Liquid flow switch with plastic paddle and casing

Flow switches are used to signal, control, and regulate the flow in a pipe. They are commonly applied for pump control, burner activation, compressor management, alarm signaling, and motorized valve operation.

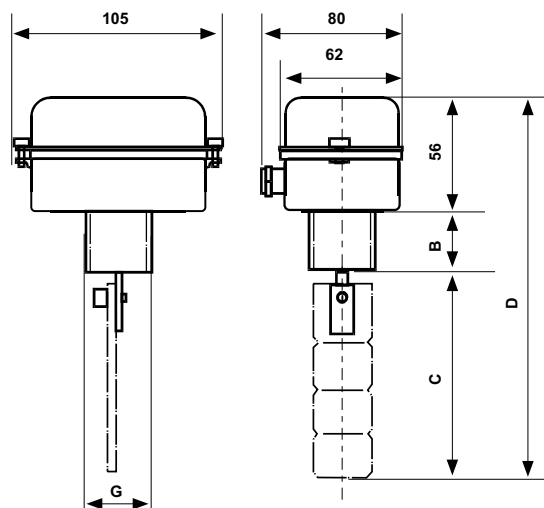


Dimensions (mm)

	FF81P	FF91P
B	38	27
C	110	60
D	204	143
G	G1	G1/2



	FF81P		FF91P
G 1"	35	G 1/2"	17
G 2"	60	G 1"	35
G 3"	90	G 1 1/2"	52
G 4"	110	G 2"	60

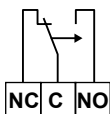


	Pipe diameter	Minimum calibration value (dm <sup>3</sup> /sec):		Maximum calibration value (dm <sup>3</sup> /sec)		Male connection	Maximum pressure operating	Operating temperature *	Protection degree
		increasing flow	decreasing flow	increasing flow	decreasing flow				
FF81P	G 1	0.26	0.16	0.58	0.53	G1	10 bar	0 ÷ 100°C	IP54
	G 2	0.87	0.65	1.65	1.74				
	G 3	1.85	1.3	3.49	3.27				
	G 4	2.39	1.85	5.56	5.23				
FF91P	G 1/2	0.13	0.08	0.29	0.26	G1/2	10 bar	0 ÷ 100°C	IP54
	G 1	0.26	0.16	0.58	0.53				
	G 1 1/2	0.39	0.24	0.87	0.79				
	G 2	0.8	0.6	1.7	1.6				

\* For drinking water control, a maximum of 85°C is recommended.

## ELECTRIC FEATURES

Single-pole double-throw (SPDT) microswitch.



Rated insulation voltage  $U_i$  380V~  
Continuous duty rated current  $I_{th}$  10A  
Rated operational current (Ie):

		220V~	250V~
Resistive load	AC-12	-	10A
Inductive load	AC-15	-	3A
Direct current	DC-13	0,2A	-

# HOMOLOGATION AND STANDARDS

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Complies with CEI EN 60947-5-1 standards.

## Installation

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The flow switch must be installed on horizontal pipe sections, positioned away from valves, elbows, drains, or any areas with irregular flow patterns.

## OPERATING

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A flexible paddle, activated by the flow of liquid, engages the operating lever of a SPDT switching microswitch, triggering the following actions:

When the flow increases: the C-NC contact opens and the C-NO contact closes.

When the flow decreases: the C-NC contact closes and the C-NO contact opens.

## GENERAL FEATURES

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Type FF81P:

- Shock-proof thermoplastic case with self-retaining screws.
- Threaded brass connection: G1.
- Nylon cable gland: G 3/8.
- Non-toxic thermoplastic resin paddle: Starting from G4, with cutting references for G1, G2, G3.
- Electrical connections: Faston 6.3 (included).
- Adjustment screw for setting the intervention point.
- Unit weight: 0.36 kg.

Type FF91P:

- Shock-proof thermoplastic case with self-retaining screws.
- Threaded brass connection: G 1/2.
- Nylon cable gland: G 3/8.
- Non-toxic thermoplastic resin paddle: Starting from G2, with cutting references for G 1/2, G1, G 1 1/2, G2.
- Electrical connections: Faston 6.3 (included).
- Adjustment screw for setting the intervention point.
- Unit weight: 0.25 kg.