

FLOW SWITCHES FF81 FOR PIPES FROM G1 TO G4 FF84 FOR PIPES FROM G1 TO G10

*FF*81 *FF*84

GENERAL CHARACTERISTICS

Flow switches are suitable to control and adjust air in conditioning. It acts in compliance with the technical regulations of the M.D. 1/12/1975 (Safety)

standards for the instruments containing hot liquids under pressure) and with the collection R file R.2.C.6. Into heating plants with closed expansion tank where the circulation is guaranteed by electropumps, the heat supply must be automatically interrupted in case of stop of the circulation pumps.

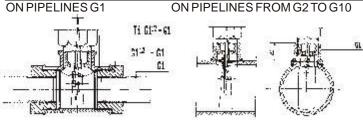
FUNCTIONING AND INSTALLATION

A flexible paddle works on a lever starting a microswitch in SPDT. The electrical connection can be prearranged to control pumps, burnes, compressors, motoroperated valve, signalling alarms.

It is installed on sections of horizontal pipe, far from valves, elbows, irregular flows or discharges.

The straight pipe must be at least 5 times of the long of the of the pipe. The flow direction must follow the arrow designed on the instrument. Check the correct installation and the correct functioning, pretending the flow inside the pipe manually pushing the lever untill you close the C-NO contact. Then check the opening of the contact.

MOUNTING EXEMPLE ON PIPELINES G1



TECHNICAL CHARACTERISTICS

FF81 has shock-resistant enclosure, protection degree IP54, sealed-gland in nylon G 3/8, lever group from G1 to G4 (the G1 and G2 levers are already mounted).

FF84 had a inox enclosure, protection degree IP54, sealed-gland in nickel-plated brass G 3/8, lever group from G1 to G10 already mounted).

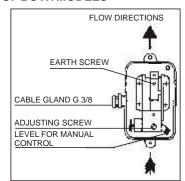
TECHNICAL CHARACTERISTICS OF BOTH MODELS

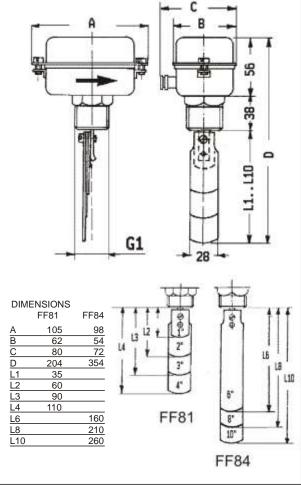
Brass threaded connection from G1 Lever group for pipelines in inox AISI 316

Unipolar microswitch in SPDT changeover with ASE-UL-CSA-BS-VDE standards.

Electrical connections on 6.3 Faston (on issue)

Calibration screw for the regulation of the intervention point.





TECHNICAL FEATURE

Max. working pressure 10 bars
Max. temperature of the controlled fluid 50°C
Working temperature -20 to 110°C
SPDT microswitch according to
ASE-UL-CSA-BS-VDE.
According standards CEI EN 60947-5-1

NC C NO

Nominal insulation tension U_i 380V~ Continuous duty nominal current I_{th} 10A Operating nominal current I_c:

		230V - 250V~			
Resistive load	AC-12	- 10A			
Inductive load	AC-15	- 3A			
Direct current	DC-13	0,2A -			

TYPE	PIPELINE LEVER DIAMETER	Minimum Calibration Value dm³/sec		Maximum Calibration Value dm³/sec		
			Increasing flow	Decreasing flow	Increasing flow	Decreasing flow
	G1	L1	0.26	0.16	0.58	0.53
FF81	G2	L2	0.8	0.6	0.7	1.6
	G3	L3	1.7	1.2	3.2	3
	G4	L4	2.2	1.7	5.1	4.8
	G6	L6	4.7	3.4	9	8.5
FF84	G8	L8	12.9	12.7	26	25.2
	G10	L10	22	22	46.5	41