

# FLUID FLOW SWITCHES

## USE

-Flow switches are used to signal and control liquid flow in pipelines; to control pumps, compressors, burners, valves etc.  
 -They comply to Ministerial Decree 1/12/1975 "Safety standards for equipment containing pressurized hot liquids" and Body R File R.2.C.6. "In heating systems with closed expansion vessel in which circulation is guaranteed by electropumps, the contribution of heat must be automatically cut off in the event of circulation pump shut-down".

## INSTALLATION AND OPERATION

-When the appropriate sized paddle has been selected and the unit fitted, the paddle will be displaced by the flow, the movement will then activate the SPDT microswitch.  
 -Flow switch must be installed in horizontal pipelines away from pumps, bends or others locations where flow turbulence could be generated.

## TECHNICAL FEATURES

### Type FF81

- Casing in anti-shock thermoplastic material
- G 1" brass connection
- G 3/8" cable gland
- AISI 316 stainless steel paddles : size 1" to 4"
- Faston 6.3 electrical connection
- Calibration screw to adjust the set-point.

### Type FF84

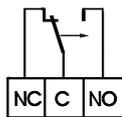
- Casing in stainless steel
- G 1" brass connection
- G 3/8" cable gland
- AISI 316 stainless steel paddles : size 1" to 10"
- Faston 6.3 electrical connection
- Calibration screw to adjust the set-point.

## HOMOLOGATION AND STANDARDS

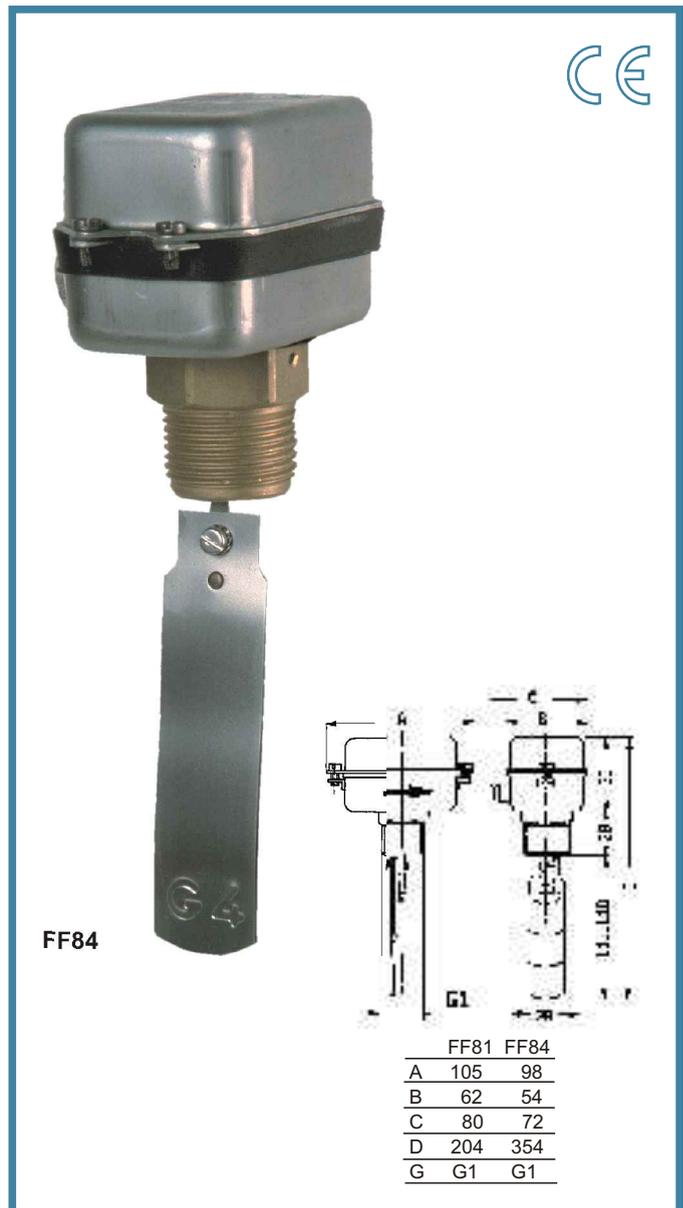
-Complies with CEI EN 60730 standards

## ELECTRICAL FEATURES

- SPDT microswitch
- Contact rating : 10 (4) A -250 Vac
- When flow increases: C-NC opens and C-NO closes
- When flow decreases: C-NC closes and C-NO opens



Nominal insulation tension	Ui 380V~		
Continuous duty nominal current	Ith 10A		
Operating nominal current Ie:	220V-	250V~	
Resistive load	AC-12	-	10A
Inductive load	AC-15	-	3A
Direct current	DC-13	0.2A	-



	FF81	FF84
A	105	98
B	62	54
C	80	72
D	204	354
G	G1	G1

TYPE	Pipeline diameter	Minimum Calibration Value (dm <sup>3</sup> /sec <sup>3</sup> )		Maximum Calibration Value (dm <sup>3</sup> /sec <sup>3</sup> )		Male connection	Max. working pressure bar	Working temperature °C	Max. temperature °C	Protection	Weight each Kg	Box pcs N°
		Increasing flow	Decreasing flow	Increasing flow	Decreasing flow							
FF81	G1	0.26	0.16	0.58	0.53	G1	10	-20 to 110	50	IP54	0.39	
	G2	0.8	0.6	1.7	1.6							
	G3	1.7	1.2	3.2	3							
	G4	2.2	1.7	5.1	4.8							
FF84	G6	4.7	3.4	9	8.5	G1	10	-20 to 110	50	IP54	0.67	
	G8	12.9	10.7	26	25.2							
	G10	26.5	22	43.5	41							

