

FLOW SWITCH - PLJ SERIES

Flow switch for liquids

Device meant to control the flow of liquids inside piping units of :

- Industrial plants
- Conditioning and heating systems
- Firefighting systems in compliance with the EN 12259-5:2003 Standard entitled «Fixed firefighting systems Part 5 - Water flow detectors»

The flow switches are available in two versions:

1. With 1" NPT-M connection
2. With 1" GAS-M connection

Specifications

All metal parts are in stainless steel (material compliant to Standard EN-12259-5)

maximum working pressure: 25 bar

Room temperature limits: -20°C ÷ +85°C

Liquid temperature limits: -30°C ÷ +120°C

Protection rating: IP65

Set of stainless steel vanes (material compliant to Standard EN-12259-5)

Housing: In ABS

Cable trays: M14

Contact: SPDT 15 (8A) 24/250 Vac Micro-switch

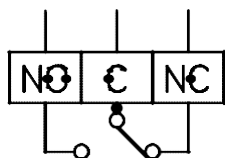


Electrical connections

The COM-NO contact closes, at the calibration value, when the flow increases

The COM-NO contact opens, at the calibration value, when the flow decreases

SPDT VERSION



NO=NORMALLY OPEN

C=COMMON

NC=NORMALLY

CLOSED

Installation

- The PLJ flow switch can be mounted in any position
- The arrow must be oriented in the direction of the flow
- In the event of installation with vertical pipes, the instrument needs recalibrating to compensate for the weight of the vanes
- Fit the instrument along a straight run of the piping, in the absence of filters, valves, etc and along at least five times its diameter, both upstream and downstream.
- The instrument is delivered equipped with 5 vanes. If necessary, the vanes can be cut by reference to the inner diameter of the piping.

Table of flows

Piping Ø	Min setting m3/h	Max setting m3/h
1"	0.6 (1)	1.9 (2)
1 ¼"	0.8 (1.3)	2.8 (3)
1 ½"	1.1 (1.7)	4.1 (4.4)
2"	2.2 (3.1)	6.1 (6.6)
2 ½"	2.8 (4.1)	7.3 (7.8)
3"	4.3 (6.2)	11.4 (12)
4"	6.1 (8.4)	17.3 (18.4)
5"	9.3 (12.9)	25.2 (26.8)
6"	12.3 (16.8)	30.7 (32.7)
8"	38.6 (46.6)	90.8 (94.2)

Data inside brackets shown in the table refers to closing values, whereas data outside brackets refers to opening values

The flow switches are factory-set to the minimum trip value

By turning the adjusting screw that is inside the housing clockwise the opening value increases.