

Flow switch JSW

with appliance plug



Technical data

Switching capacity:	5 A, 24–250 V~
Contact:	1 microswitch as potential-free changeover contact
Switching point fidelity:	± 15 % of the end value
Degree of protection:	IP 65
Protection class:	II
Max. temperature of medium:	110 °C
max. pressure:	25 bar
Colour:	black
Housing material:	brass
Paddle:	non-rusting (NIRO)

Brass cap nut, r. 3/4", with O-ring and connecting piece for soldering into a standard copper T-piece with 1/2" tee included in the scope of the delivery.

Application

Supervision of lower and medium quantities of non-aggressive liquids in tubes of lower diameters ranging from 3/8" to 1".

Installation: vertical in a horizontal tube. Moderation distance needed: equivalent to min. 5 fold tube diameter in front of and after the paddle.

Not certified for use with drinking water.

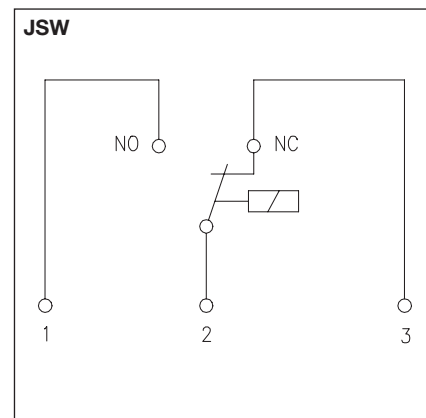
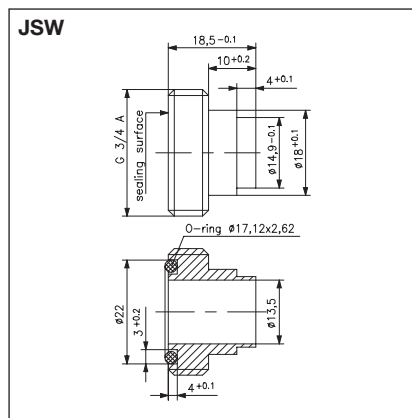
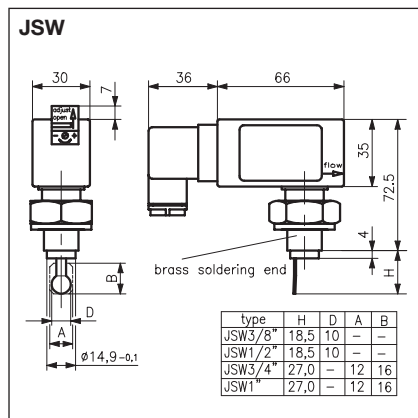
Type	Item No.	Tube	DN	max.	Switch point, decreasing*	Switch point, increasing	Δl/min	PG
JSW-3/8	H 530943	3/8"	10	10 l/min.	3.5 ... 5.0 l/min	4.0 ... 5.5 l/min	0.5	III
JSW-1/2	H 530944	1/2"	15	20 l/min.	5.0 ... 6.5 l/min	5.5 ... 7.0 l/min	0.5	III
JSW-3/4	H 530945	3/4"	20	40 l/min.	7.0 ... 9.5 l/min	9.0 ... 11.0 l/min	2.0	III
JSW-1	H 530946	1"	25	60 l/min.	13.5 ... 16.5 l/min	17.0 ... 20.5 l/min	3.5	III



T-pieces (nickel-plated brass):

3/8"	H 530958	III
1/2"	H 530957	III
3/4"	H 530951	III
1"	H 530953	III

* The above indicated switching values apply only if the flow monitor is installed into our T-piece. The use of copper T-pieces will increase the effective switching values.



The device operates on the principle of a spring-loaded paddle with magnetic control from a microswitch. In idle position or when the flow rate is less than the switch-off value (= "Switch point, decreasing"), contacts 2–3 are closed and can be used as a signal contact. When the upper switch value is reached (= switch-on value or "Switch point, increasing") the contact switches and 2–1 are closed. If the device is being used as a low water pressure switch, these contacts can be used to activate a pump, for example. There is no upper limit for the actual rate of flow, but it must always be higher than the switch-on value.

The switch points listed in the table are valid for flow monitors fitted with a T-piece to a horizontal pipe and a water temperature of 20°C. The minimum switch value for the device is set in the factory; however, it can be changed to suit an existing system. To do this, push the non-detachable cover on the front in the direction of the arrow to reveal the adjusting screw, which can then be turned a maximum of 7 revolutions in the "plus" direction. So, for example, a switch value range of 13–16.5 l/min gives a total range of adjustment of 3.5 l/min. With a maximum of 7 revolutions, each revolution adjusts the flow rate by 0.5 l/min.