

# Flow switch JSW

with device plug



Technical data	Application
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<b>Housing colour:</b>	black
<b>Material of paddle:</b>	stainless steel
<b>Material of carrier:</b>	nickel-plated brass
<b>Ambient temperature:</b>	-20 ... +70 °C
<b>Permissible atmospheric humidity:</b>	max. 95% rel. humidity, non-condensing
<b>Max. pressure:</b>	25 bar
<b>Permissible medium temperature:</b>	110 °C
<b>Operating voltage:</b>	none
<b>Max. switching current:</b>	5 A
<b>Min. switching current:</b>	100 mA at 24 VAC, 50 Hz
<b>Max. switching voltage:</b>	230 VAC, 50 Hz
<b>Min. switching voltage:</b>	24 VAC, 50 Hz
<b>Switching element:</b>	microswitch
<b>Switching contact:</b>	toggler, potential-free
<b>Control function:</b>	switches if the set value is undershot or exceeded
<b>Electrical connection:</b>	4-pin plug according to DIN EN 175301-803 (previously DIN 43650 - A/ISO 4400)
<b>Mounting/attachment:</b>	union nut G 3/8" on brazing spout (for brazing in a standard copper T-piece with outlet 1/2") or T-piece
<b>Protection rating:</b>	IP 65
<b>Protection class:</b>	II
<b>Safety and EMC:</b>	according to DIN EN 60730
<b>Sensor:</b>	flow paddle
<b>Function type:</b>	monitor
<b>General features:</b>	Internal setting
<b>Accuracy:</b>	+/- 15% of the set value (switching values are only accurate if the flow monitor has been installed in our T-piece. If copper T-pieces are used, the switching values will increase.)

Monitoring small and medium, non-aggressive quantities of liquid in pipes with small diameters 3/8" to 1".

Assembly: Vertical in a horizontal pipe. Calming path at least 5 times the pipe diameter before and after the paddle.

Not approved for drinking water applications.

Brass union nut G 3/4" with o-ring and brazing spout for brazing in a standard copper T-piece with outlet 1/2" included in the scope of delivery.

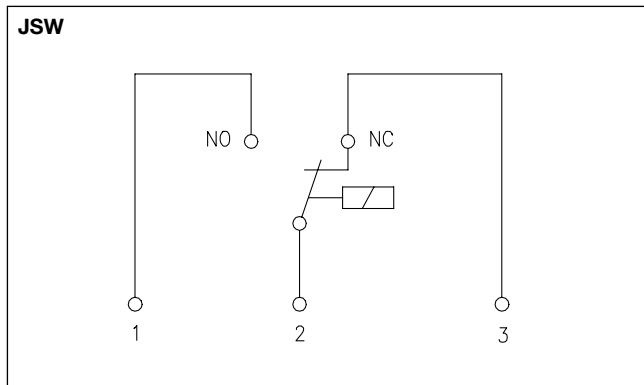
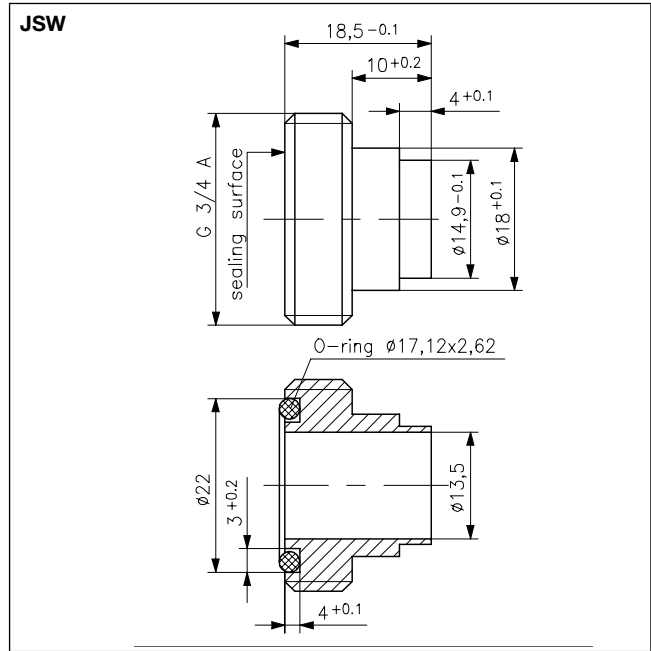
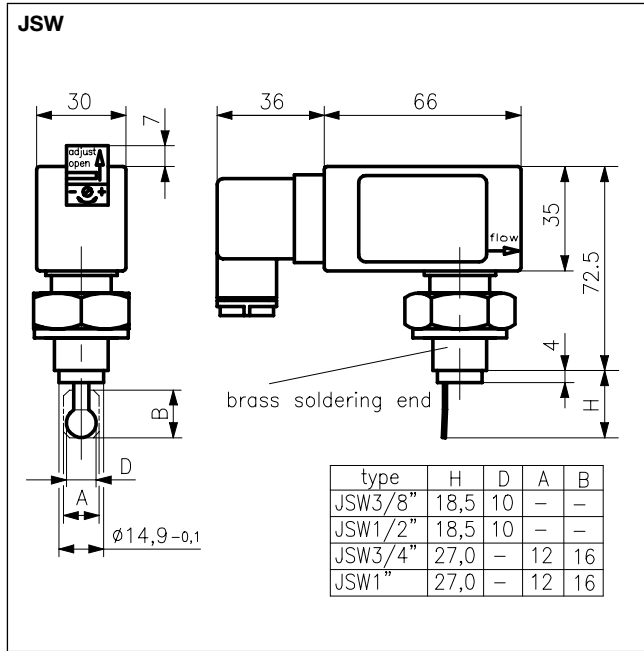
Type	Item no.	Pipe	DN	Max.	Switching point dropping*	Switching point rising	Δl/min	PG
<b>JSW-3/8</b>	H 530943	3/8"	10	10 l/min	3.5...5 l/min	4...5.5 l/min	0.5	III
<b>JSW-1/2</b>	H 530944	1/2"	15	20 l/min	5...6.5 l/min	5.5...7 l/min	0.5	III
<b>JSW-3/4</b>	H 530945	3/4"	20	40 l/min	7...9.5 l/min	9...11 l/min	2	III
<b>JSW-1</b>	H 530946	1"	25	60 l/min	13.5...16.5 l/min	17...20.5 l/min	3.5	III



T-piece (nickel-plated brass):								
<b>T-piece 3/8"</b>	H 530958							III
<b>T-piece 1/2"</b>	H 530957							III
<b>T-piece 3/4"</b>	H 530951							III
<b>T piece 1"</b>	H 530953							III

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The device works according to the principle of a spring-loaded paddle with magnetic control of a microswitch. When in rest position or if the switch-off value is undershot (= "dropping switching point"), contacts 2 and 3 are closed and can be used as signal contacts. Upon reaching the upper switching value (= switch-on value or "switching point rising"), the contact changes and 2 to 1 are closed. If used as a water shortage safeguard, for example, a pump can be switched on with these contacts. The actual flow quantity must in any case be higher than the switch-on value, but there is no upper limit. The switching points given in the table apply to flow monitors with an attached T-piece and a water temperature of 20 °C in a horizontal pipe. The devices are set to the minimum value at the factory, but can be adapted to an existing system. To that end, the cover of the setting screw on the front side (which is designed so that it cannot be lost) is pushed up in the direction of the arrow and the setting screw is rotated by a maximum of 7 revolutions in the plus direction. With a switching value range of, for example, 13–16.5 l/min, a setting range of 3.5 l/min is obtained. With a total of 7 permissible screw revolutions, this gives a change of 0.5 l/min per screw revolution.