

# Flow switch JSF-1 E... 4 E

mechanical – TÜV-tested



## Technical data

<b>Housing colour:</b>	grey (lower part like RAL 7016, upper part like RAL 7035)
<b>Ambient temperature:</b>	- 40 ... + 85 °C
<b>Permissible atmospheric humidity:</b>	max. 95% rel. humidity, non-condensing
<b>Permissible medium temperature:</b>	120 °C
<b>Operating voltage:</b>	none
<b>Max. switching current:</b>	15 (8) A
<b>Min. switching current:</b>	150 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>Hysteresis:</b>	depends on the pipe diameter (see the table of switching values)
<b>Electrical connection:</b>	screw-type terminals
<b>Mounting/attachment:</b>	assembly by means of tapered Whitworth pipe thread R1"
<b>Protection rating:</b>	IP 65
<b>Protection class:</b>	I
<b>Safety and EMC:</b>	according to DIN EN 60730
<b>Sensor:</b>	flow paddle
<b>Material of paddle:</b>	stainless steel
<b>Function type:</b>	monitor
<b>General features:</b>	internal setting
<b>Accuracy:</b>	+/- 15% of the set value
<b>Test mark / Approbation:</b>	JSF-1E/JSF-2E/JSF-3E/JSF-4E TÜV.SW.016-13 JSF-1RE/JSF-2RE TÜV.SW.017-13

## Application

Flow monitoring of liquid media in pipes from 1/2" to 8", for example, oil, cooling and lubricant circuits or as safety against a shortage of water.

Assembly: Vertical in a horizontal pipe.

Calming path at least 5 times the pipe diameter before and after the paddle.\*

The max. flow can be significantly higher than the maximum setting value of the monitor.

Not approved for drinking water applications.

TÜV test up to 6" or for all diameters

Type-tested by the TÜV according to the "Flow 100" VdTÜV circular

Type	Item no.	Pipe	Medium	Features	PG
JSF-3 E	JA 060500	1/2"	normal	material of carrier: brass max. pressure: 5 bar attached T-piece, grey iron	II
JSF-4 E	JA 060600	3/4"	normal	material of carrier: brass max. pressure: 5 bar attached T-piece, grey iron	II
JSF-1 E	JA 060100	1" ... 8"	normal	material of carrier: brass max. pressure: 8 bar	II
JSF-1 RE	JA 060200	1" ... 8"	normal	material of carrier: brass max. pressure: 5 bar reduced switching values**	II
JSF-2 E	JA 060300	1" ... 8"	aggressive***	material of carrier: V4A max. pressure: 13 bar	II
JSF-2 RE	JA 060400	1" ... 8"	aggressive***	material of carrier: V4A max. pressure: 5 bar reduced switching values**	II