

**Flow monitors, mechanical, with paddle, with switching output**

SW

Mechanical paddle flow monitor **RHEASREG® SW**. This flow sensor is applicable for flow monitoring of liquid and gaseous non-aggressive media in pipes and in hydraulic systems from 1/2" through 3/4" up to 8" in diameter, furthermore used as flow control instrument or as water failure protection switch, e.g. for pumps in oil circulation and cooling systems, in evaporators, compressors and heat exchangers, with brass or stainless steel body.

**TECHNICAL DATA**

Switching capacity:	15 (8) A; 24...250V AC, at 24V AC min. 150mA
Contact:	dustproof microswitch as potential-free single-pole changeover contact
Enclosure:	plastic, UV-stabilised, material polyamide, 30% glass-globe reinforced, colour traffic white (similar to RAL 9016)
Enclosure dimensions:	108 x 70 x 73.5 mm (Thor 2)
Base body:	galvanised steel
Screwed socket:	brass or stainless steel (see table)
Paddle:	stainless steel <b>V4A</b> (1.4401)
Cable gland:	M20 x 1.5; including strain relief
Enclosure temperature:	-40...+85°C
Max. temperature of medium:	+120°C
Electrical connection:	0.14 - 1.5 mm <sup>2</sup> , via screw terminals
Protection class:	I (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014 / 30 / EU, low-voltage directive 2014 / 35 / EU

**FUNCTION**

Monitor:	Contact COM – NO (red – yellow) breaks when flow rate drops to the preset value. Simultaneously, contact COM – NC (red - blue) closes and can be used as signal contact. Device is factory-set to the minimum switch-off value, which can be increased by turning the range adjusting screw clockwise.
Installation:	vertical in horizontal pipes, tee R x" according to DIN 2950, min. smoothing distance = 5x pipe diameter upstream and downstream of paddle

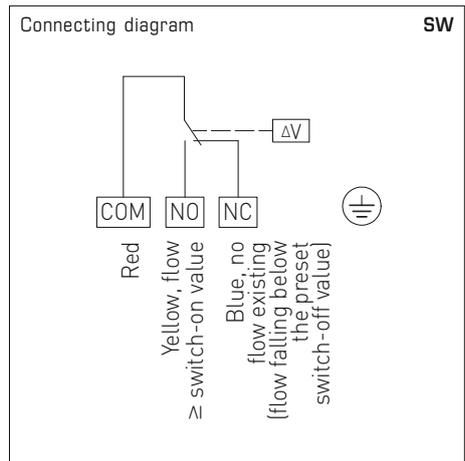


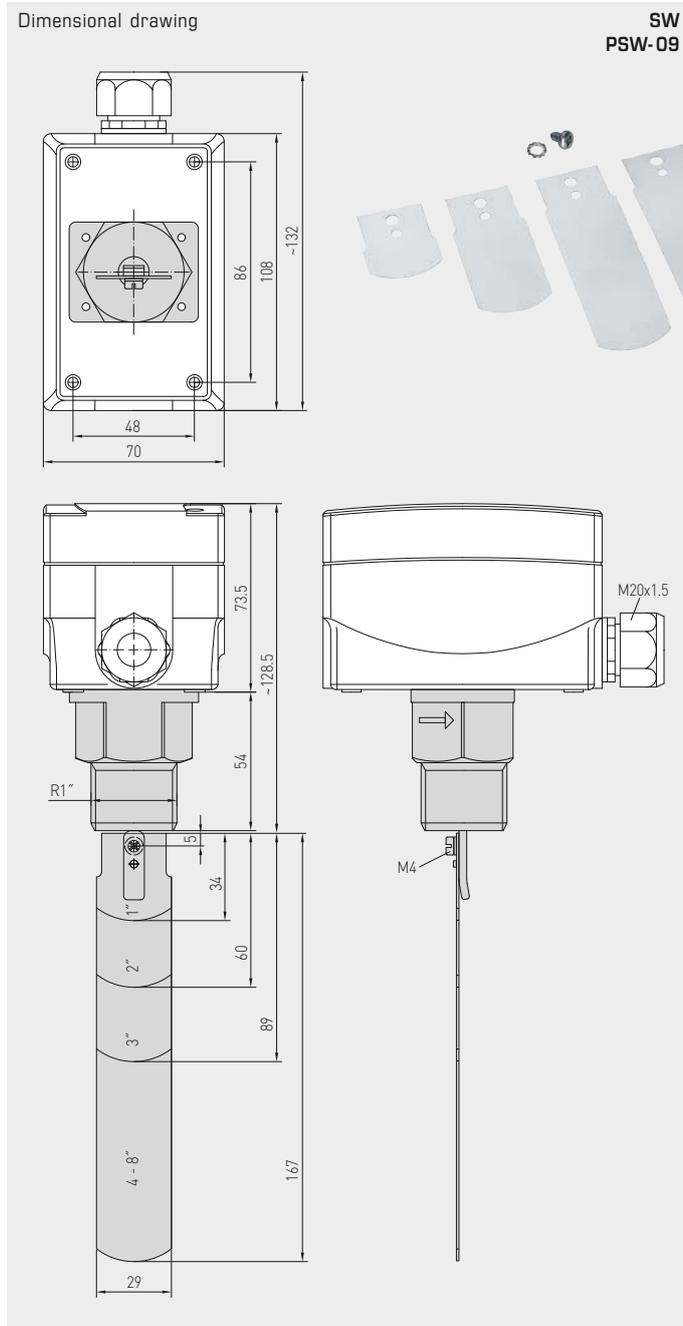
**SW-3E  
SW-4E**

Incl. attached Tee Fitting according to DIN 2950

**Table of switching values**

Pipe Ø DN in inches	Factory Setting OFF / ON (m <sup>3</sup> /h)	Max. Setting OFF / ON (m <sup>3</sup> /h)
<b>SW-1 / SW-2</b>		
1"	0.6 / 1.0	2.0 / 2.1
1 1/4"	0.8 / 1.3	2.8 / 3.0
1 1/2"	1.1 / 1.7	3.7 / 4.0
2"	2.2 / 3.1	5.7 / 6.1
2 1/2"	2.7 / 4.0	6.5 / 7.0
3"	4.3 / 6.2	10.7 / 11.4
4"	11.4 / 14.7	27.7 / 29.0
4" Z	6.1 / 8.0	17.3 / 18.4
5"	22.9 / 28.4	53.3 / 55.6
5" Z	9.3 / 12.9	25.2 / 26.8
6"	35.9 / 43.1	81.7 / 85.1
6" Z	12.3 / 16.8	30.6 / 32.7
8"	72.6 / 85.1	165.7 / 172.5
8" Z	38.6 / 46.5	90.8 / 94.2
<b>SW-3 / SW-4</b>		
1/2"	0.174 / 0.48	0.846 / 0.948
3/4"	0.138 / 0.408	0.768 / 0.858





SW

**PSW-09**  
Set of stainless steel  
paddles (Spare part)

Pipe diameters with paddle combinations

Pipe Ø DN		Paddle combination PSW-09
in inches	in mm	
½"	15 mm	1
¾"	20 mm	1
1"	25 mm	1
1 ¼"	32 mm	1
1 ½"	40 mm	1
2"	50 mm	1, 2
2 ½"	65 mm	1, 2
3"	80 mm	1, 2, 3
4" Z	100 mm	1, 2, 3 plus 4 (shorten to 92 mm)
5" Z	125 mm	1, 2, 3 plus 4 (shorten to 117 mm)
6" Z	150 mm	1, 2, 3 plus 4 (shorten to 143 mm)
7 - 8" Z	200 mm	1, 2, 3 plus 4 (unshortened)

RHEASREG® SW Flow monitors, mechanical, with paddle							
Type / WG01	Pipe Ø DN	Max. Operating Pressure PN max	Medium	(Contacting Parts Made of)	Incl. attached Tee Fitting according to DIN 2950	Item No.	Price
<b>SW</b>							
SW-1E	1" - 8"	11 bar	normal	(brass)	—	1702-3011-0000-000	98,00 €
SW-2E	1" - 8"	30 bar	aggressive	(stainless steel V4A)	—	1702-3012-0101-000	310,00 €
SW-3E	½"	11 bar	normal	(brass)		1702-3013-0031-000	180,54 €
SW-4E	¾"	11 bar	normal	(brass)		1702-3014-0041-000	180,54 €
<b>Spare part</b>							
<b>PSW-09</b>	Set of stainless steel paddles 1-8" (4 pieces)					7700-0010-1000-000	16,20 €
Note:	Z = Fourth paddle included in the scope of delivery to be used in addition to the three paddles already factory-mounted (1, 2, 3 plus 4)!						