

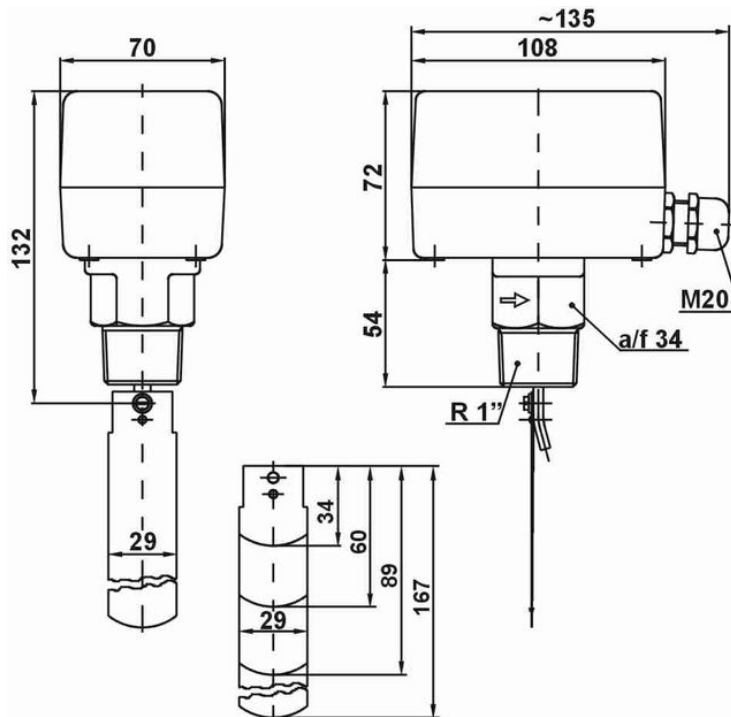
Paddle Flow Switch Fig.8061

Series VH 780

Before installation, check whether the material of the Paddle Flow Switch is suitable for the medium to be monitored.

Material specifications for parts in contact with the medium		
Designation	Brass	Stainless steel
Connection	CW617N (CuZn40Pb2)	1.4541 (316 L)
Paddle pole	CW607N (CuZn38Pb1)	1.4541 (316 L)
Bellows	CW453 (CuSn8)	1.4404 (Stainless steel)
Paddle	Stainless steel 1.4404	
Switching housing	ABS/PC	
Switching housing cap	ABS	

Types: VH 780 NI / VH 780 NIF
 VH 780 EI / VH 780 EIF



General notes on installation:

- Any installation position for the paddle flow switch is possible.
- In case of installation in vertical pipelines, the weight of the paddle should be compensated for by adjusting the switching point
- If possible, install the paddle flow control switch in horizontal pipes.
- There is an arrow on the paddle flow switch. It is essential that this arrow points in the flow direction and that the switch enclosure runs parallel to the pipe axis.
- The calming sections should be at least 5 x DN both upstream and downstream of the paddle flow control switch.
- The paddle flow control switch must be installed so that the paddle does not impact the pipe wall.



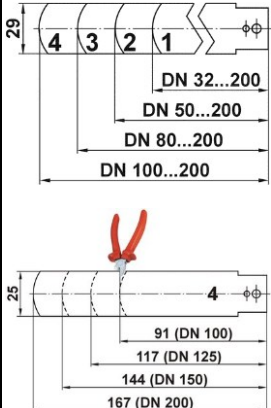
WARNING! No safety component!

The VH 780 are no safety components in accordance with Directive 2006-42-EG (Machine Directive).

⚡ Never use the VH 780 as a safety component.

Setpoint adjustment:

Turning the adjustment screw clockwise increases the switch-off point. The supplied paddle allows the unit to be adapted to suit various pipe nominal diameters and also permits the switching point to be adjusted.

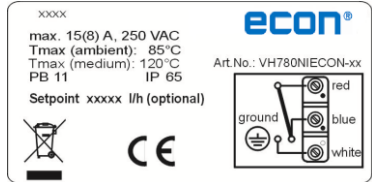
Setpoint table							
DN	Paddle N ^o .	Dimension** Paddle	Standard- Setpoints * VH 780 NI / VH 780 EI		Standard- Setpoints * VH 780 NIF / VH 780 EIF		
			ON m ³ /h (H ₂ O)	OFF m ³ /h (H ₂ O)	ON m ³ /h (H ₂ O)	OFF m ³ /h (H ₂ O)	
32	1	29x34	1,3 ... 3,0	0,8 ... 2,8	0,9 ... 1,6	0,25 ... 1,4	
40	1	29x34	1,7 ... 4,0	1,1 ... 3,7	1,2 ... 2,2	0,5 ... 1,9	
50	1+2	29x60	3,1 ... 6,1	2,2 ... 5,7	2,3 ... 4,1	0,9 ... 3,6	
65	1+2	29x60	4,0 ... 7,0	2,7 ... 6,5	3,1 ... 5,5	1,2 ... 4,9	
80	1+2+3	29x89	6,2 ... 11,4	4,3 ... 10,7	4,9 ... 8,2	2,1 ... 7,4	
100	1+2+3+4	29x91, gekürzt	8,0 ... 18,4	6,1 ... 17,3	7,7 ... 13,0	3,3 ... 11,6	
125	1+2+3+4	29x117, gekürzt	12,9 ... 26,8	9,3 ... 25,2	11,5 ... 19,6	5,0 ... 17,5	
150	1+2+3+4	29x144, gekürzt	16,8 ... 32,7	12,3 ... 30,6	14,1 ... 23,9	6,1 ... 21,4	
200	1+2+3+4	29x167	46,1 ... 94,2	38,6 ... 90,8	36,5 ... 61,8	21,7 ... 55,3	

* All Setpoints are valid for operating pressures up to 11 bar.

** Higher Setpoints by selecting a smaller paddle possible.

Technical data and type plate:

The technical data of customised versions can deviate from the details in these instructions. Please observe the details on the type plate.

Technical data		Type plate						
Operating temperature (medium)	-40...120 °C							
Ambient temperature	-40...85 °C							
Storage / transport temperature	-40...+85 °C, <95% r.F							
max. operating pressure:								
- Brass	11 bar							
- Stainless steel	20 bar							
Degree of protection	IP 65							
Electrical data:								
Change over contact, max. contact rating: 24...250 VAC; max. 15 A ; 8 A inductive load								
Voltage	5 V	10 V	12 V	24 V	30 V	48 V	120 V	250 V
Current								
AC	0,07 A	0,1 A	0,15 A	15 (8) A	15 (8) A	15 (8) A	15 (8) A	15 (8) A
DC	0,05 A	0,05 A	0,07 A	2 A	5 A	5 A	5 A	-/-

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