

ROBUST HIGH QUALITY FLOW MONITORS

PR1 SS



Eletta Liquid Paddle Switch

control of flow or no-flow conditions

PR1 Paddle Switch is using the liquid flow to activate the spring supported paddle and the micro-switch to give an alarm if the flow stops or starts. The installation is simple as you can cut the paddle to the desired length on site according to the actual pipe size. The paddle aligns fully with the flow and creates a very small pressure drop. The function works only in one flow direction.

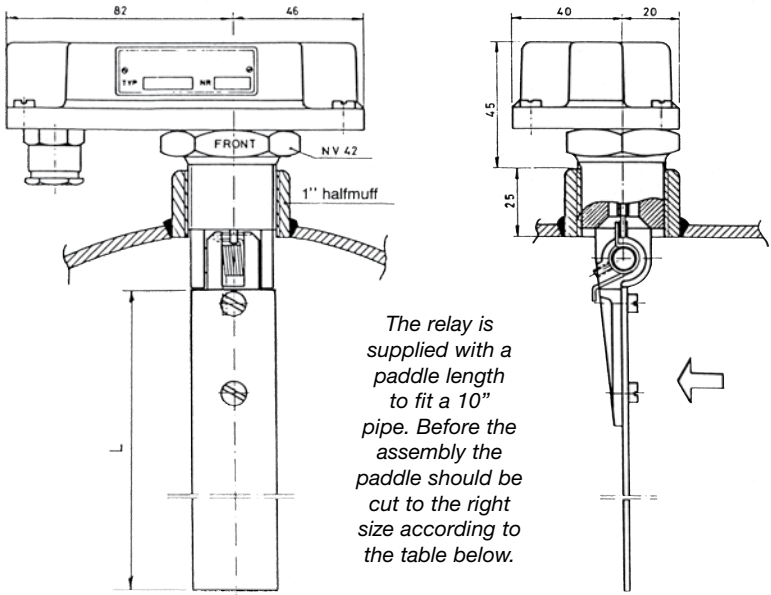
Specifications PR 1 SS

Function

The Eletta PR1 Paddle Switch is using the liquid flow to activate the spring supported paddle and the micro-switch to give an alarm if the flow stops or starts.

PR1 can be used in pipe sizes from DN50 to DN250 and the set point is dependent on the length of the paddle and the pipe size, please refer to the table below.

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The relay is supplied with a paddle length to fit a 10" pipe. Before the assembly the paddle should be cut to the right size according to the table below.

Specification

Wetted material	SS 316
Sealing Material	FPM
Max. pressure	25 bar
Max. temperature	+180°C(ambient +120°C)
Min. temperature	-20°C
Protection class	Standard IP65
Process connection	25 mm thread (1" BSP or NPT)(through pipe wall)
Pipe Sizes	DN50–DN250
Switch	Microswitch SPDT 1-pole 2-way

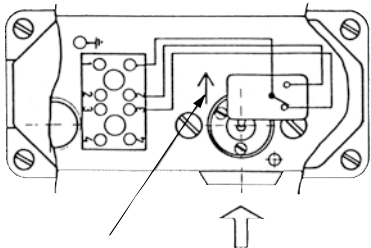


Breaking capacity at inductive or resistive load	250 VAC 16 A
	24 VDC 1 A
	48 VDC 0,2 A 110 VDC 0,02 A

Max Length Paddle		
Pipe sizes	L mm	
2"	50	22
2 1/2"	65	38
3"	80	52
4"	100	75
5"	125	100
6"	150	125
8"	200	175
10"	250	200

Mounting

The PR1 is position dependent and can only be mounted in a horizontal pipe with the connection box in an upward position. Please make sure that the flow direction is according to the arrow placed inside the connection box. A straight run free from bends and valves of 3 pipe inner diameter up- and downstream is recommended for proper function.



When installing make sure that the flow direction is in accordance with the arrow.

Function test in water

Dimension	Switch-on value l/min appr.	Switch-off value l/min appr.
DN 50	> 125	< 75
DN 65	> 150	< 100
DN 80	> 200	< 150
DN 100	> 300	< 200
DN 150	> 350	< 250