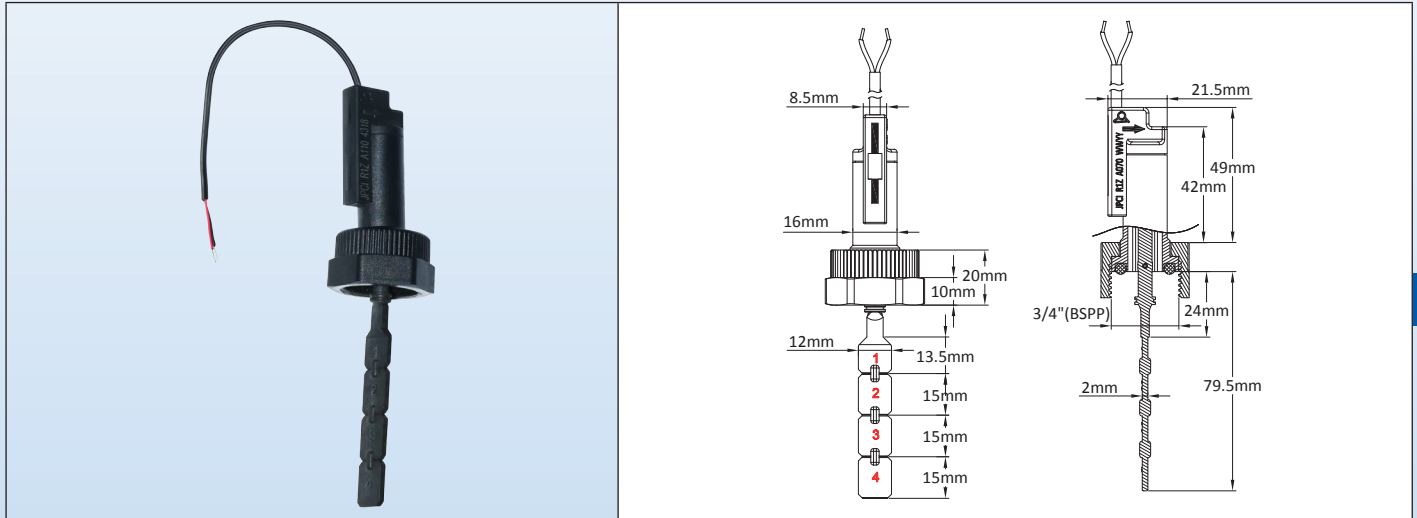


Paddle flow switches, reed switch contact, low voltage simplified model.

P1

Size and pressure	Flow sensing : Cleavable paddle	Mounting: 3/4" BSPP Union nut	Contact: Reed switch, close on flow rise	Electrical rating	Mounting position	Type
PN6 DN ≥ 15				$\leq 0.5A$ $\leq 10VA$ $\leq 80V\sim$		R1Z2



Main uses: Large quantities applications in flow detection in low voltage electronic circuits. The most economical model. Recommended mounting position is on horizontal pipes. Can be mounted in any position with a small drift in the calibration because of the paddle weight. Can be used on 15 to 100mm diameter water pipes.

Functional principle:

Balanced magnetic pallet mounted perpendicular to the flow and activating a reed switch through the wall. The return of the paddle is by made by magnetic action, without spring. No seal or liquid can pass between the piping system and the electrical contact. Suitable for corrosive water pools and spas and salination chlorination and bromination systems. Must not be used for water containing magnetic particles or high viscosity liquids, which block the movement of the paddle.

Adjustment: By cleaving the paddle. These flow switches are available with 6 factory setting calibrations, corresponding to operating forces of 0.08N (8gr), 0.09N (9gr), 0.11N (11gr), 0.14N (14gr), 0.18N (18g), 0.29N (29gr). Values are measured at the end of paddle N° 1.

Paddle shaft: Titanium (Patented), provides an outstanding corrosion resistance (contrary to stainless steel), does not break (contrary to ceramic shafts models), and improved mechanical live. Suitable for corrosive water pools and spas and salination chlorination and bromination systems.

Main housing material: PPO, fiber glass reinforced for improved pressure resistance, usable with potable water.

Paddle: PPO, 12 mm width, can be cleaved into 4 sections numbered 1 to 4 for pipe diameter adjustment.

Pipe mounting: Fiber glass reinforced union nut, 3/4 BSPP, mounting on 3/4 BSPP male fitting with gasket. Recommended torque: 7±1Nm.

Gasket: NBR. (A special silicone gasket, available on request, has been developed for water with metallic particles to limit their access to magnetic parts).

Electrical rating: Max 0.5A, Max 10VA, Max 80V, resistive load. Use on inductive circuits reduces electrical rating. We recommend to protect the reed switch with contact protection device when used in inductive loads.

Electric contact type: Normally open, closes by flow rise.

Liquid compatibility: For use with clean water and liquids without magnetic particles and without chemical incompatibility with PPO and titanium.

Nominal pressure at 20°C: 0.6MPa (PN6).

Liquid temperature range: 5 to 95°C.

Ambient temperature range: 5 to 80°C.

Ingress protection: IP65.

Calibration tolerances: +/-15%

Electrical connection: 2 x AWG26 (0.15mm²) cable, PVC insulation, T80°C.

Installation instructions:

- Check carefully the paddle orientation: The arrow on housing must be exactly parallel to the pipe.
- A 4 to 5 mm minimum gap must be respected between end of the paddle and tube wall opposite to the fitting.
- We recommend the use of nozzles of length less than or equal to 18mm between the gasket seat and the inside of the tube and with an inner diameter greater than or equal to 13.5 mm, to avoid blocking of the paddle

Accessories: 3/4" male PVC saddles for DN40 to DN100 (Outside diameter) PVC pipes, and other fittings: see last section of this catalogue

Options (MOQ apply): cable with connector or terminals, other cable length,

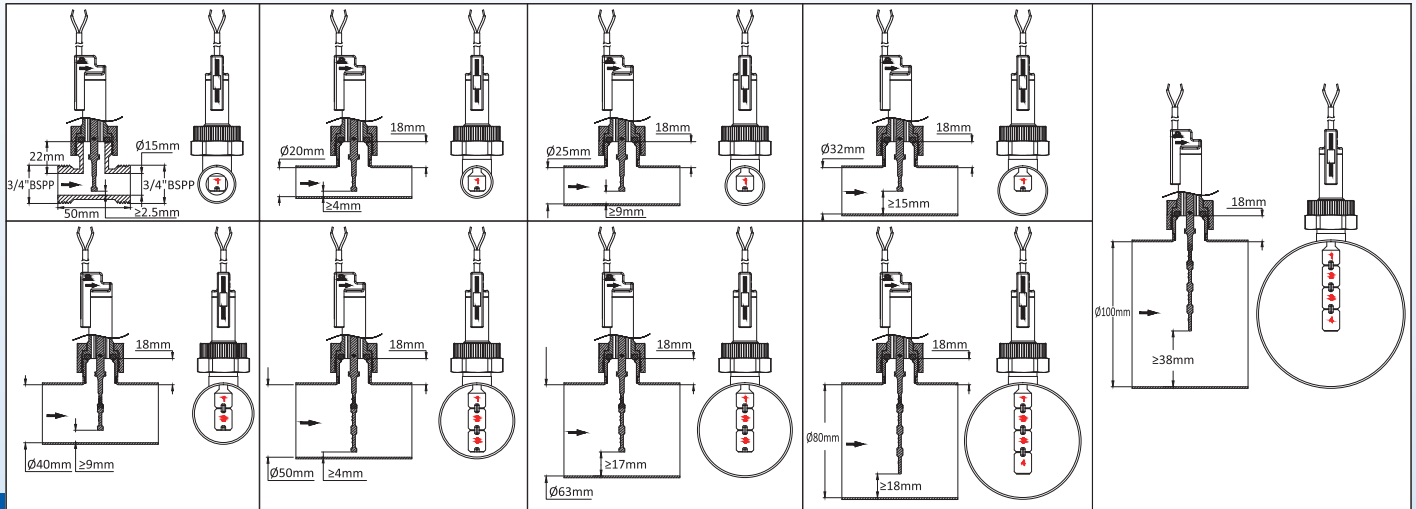
Important notice: In the case of plastic pipes (PVC, PE), the DN (nominal diameter) corresponds to the outside diameter and wall thickness is variable depending on the application. This must be taken into account to avoid blocking the paddle. In the case of metal pipes, the inner diameter corresponds to the DN. Flow value data are for tubes whose internal diameter corresponds to DN.

Because of permanent improvement of our products; drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice



Paddle flow switches, reed switch contact, low voltage simplified model.

Pipe mounting configurations



Average flow detection values (Liters/min)

Operating force (gr)	Paddle number	Pipe ID (mm)									
		15		20		25		32		40	
		*Close	**Open	*Close	**Open	*Close	**Open	*Close	**Open	*Close	**Open
8	1	5.1	4	8.3	7.3	17	15	32	29		
9	1	5.8	4.1	10	8.3	18	17	36	35		
11	1	6.3	4.4	11.5	9.5	20	18	42	36		
14	1	7.3	4.8	12.5	10	22	21	46	40		
18	1	8.1	5.4	14	11	24	23	50	44		
29	1	8.8	5.6	15.5	12	27	26	57	48		
8	1+2									30	26
9	1+2									32	29
11	1+2									36	32
14	1+2									38	34
18	1+2									46	35
29	1+2									50	43

*Close by flow rise (L/min) of contact open at no flow position. **Open by flow decrease (L/min) of contact open at no flow position. Average values for indication only. Standard tolerances ±15%

Operating force (gr)	Paddle number	Pipe ID (mm)							
		50		63		80		100	
		*Close	**Open	*Close	**Open	*Close	**Open	*Close	**Open
8	1+2+3	42.2	33.4	56.9	37.4				
9	1+2+3	48.6	37	66.85	40.45				
11	1+2+3	53.75	44.5	73.8	46.8				
14	1+2+3	57.7	44.5	79.3	48.5				
18	1+2+3	61.4	50.4	85.5	57.9				
29	1+2+3	66.8	58.4	95.1	66.1				
8	1+2+3+4					98.2	40.8	156.7	53.5
9	1+2+3+4					111.85	46.2	181.55	51.9
11	1+2+3+4					118.8	46.4	191.4	58.5
14	1+2+3+4					144.45	59.1	211.2	60.4
18	1+2+3+4					150.6	60.2	223.95	64.9
29	1+2+3+4					162.3	66.4	235.1	74.2




*Close by flow rise (L/min) of contact open at no flow position. **Open by flow decrease (L/min) of contact open at no flow position. Average values for indication only. Standard tolerances ±15%

Main references

Calibration (Calibration force ±15%, measured at end of paddle N°1)	500 mm cable	2m cable	3m cable
8 gr	R1Z286680G35N050	R1Z286680G35N200	R1Z286680G35N300
9 gr	R1Z296680G35N050	R1Z296680G35N200	R1Z296680G35N300
11 gr	R1Z2B6680G35N050	R1Z2B6680G35N200	R1Z2B6680G35N300
14 gr	R1Z2E6680G35N050	R1Z2E6680G35N200	R1Z2E6680G35N300
19 gr	R1Z2J6680G35N050	R1Z2J6680G35N200	R1Z2J6680G35N300
29 gr	R1Z2S6680G35N050	R1Z2S6680G35N200	R1Z2S6680G35N300

OEM paddles can be made on order (MOQ apply).

Excerpt from catalogue 6-2

 <p>Page (.pdf)</p>	 <p>Drawing 2D (.dwg)</p>	 <p>Drawing 3D (.stp)</p>
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