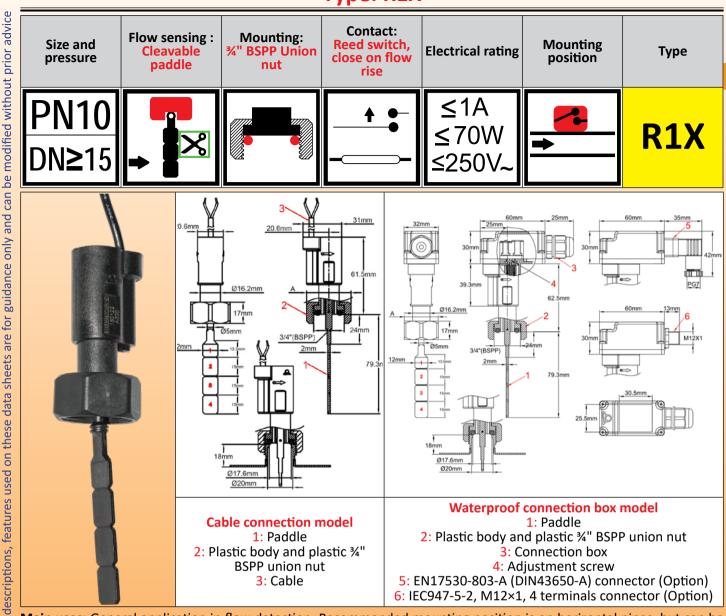
Paddle flow switches, reed switch contact, external body. Type: R1X





Main uses: General application in flow detection. Recommended mounting position is on horizontal pipes, but can be mounted in any position. For water flow detection on **dia 15 to 100mm** water pipes **Functional principle:**

Balanced magnetic pallet mounted perpendicular to the flow and activating a reed switch through the wall. The return of the pallet 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 pallet.

Adjustment:

- By cleaving the paddle

- Fine adjustment by screw driver on internal dial (on models with connection box only)

Paddle shaft: Titanium, providing an outstanding corrosion resistance, 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, ¾" BSPP, mounting on ¾" BSPP male fitting with gasket. Recommended Torque: 7±1Nm

Codet NDD

Gasket: NBR

Electrical rating: Max 1A, Max 70W, Max 250V, 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

Liquids compatibility: For use with clean water and liquids without magnetic particles and without chemical

incompatibility with PPO and titanium Nominal pressure at 20°C: 1MPa (PN10)

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Paddle flow switches, reed switch contact, external body. Type: R1X



Liquids temperature range: 5 to 100°C **Ambient temperature range:** 5 to 80°C

Ingress protection: IP65

Calibration tolerances: +/-15% (on paddle operating force at end of paddle 1)

Electrical connection: 4 possible models:

- 2 × AWG24 (0.2mm²) cable, PVC insulation, T80°, style UL2464.
- Waterproof connection box with 2.5mm² connection block, M16×1.5 cable gland
- Waterproof connection box with EN17530-803-A (DIN43650-A) connector (MOQ apply for this model)
- Waterproof connection box with IEC947-5-2, M12×1, 4 terminals connector (MOQ apply for this model)

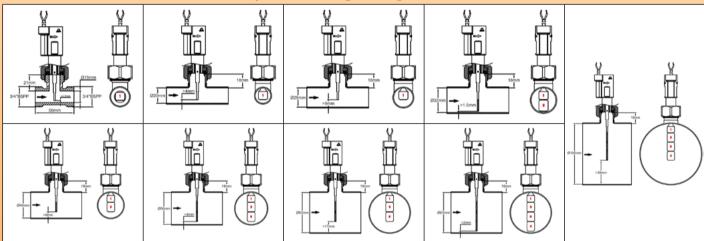
Installation instructions:

- Check carefully the paddle orientation: The arrow on housing must be exactly parallel to the pipe
- A 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 pallet

Accessories: ¾" male PVC saddles for DN40 to DN100 (OD) PVC pipes, and other fittings: see section 8 of this catalogue.

Options (MOQ apply): cable with connector or terminals, other cable length, nickel plated ¾" BSPP union nut 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 values data are for tubes whose internal diameter corresponds to DN.

Pipe mounting configurations



Average flow detection values (Liters/min)

| Paddle length | Pipe ID (mm) | | | | | | | | | | | | | | | |
|------------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 15 | | 20 | | 25 | | 32 | | 40 | | 50 | | 63 | | 100 | |
| | *Close | **Open | *Close | **Open | *Close | **Open | *Close | **Open | *Close | **Open | *Close | **Open | *Close | **Open | *Close | **Open |
| 1-m | 2,7 | 2,3 | 4,8 | 4,5 | 13 | 11 | 22 | 20 | 38 | 35 | 67 | 47 | 167 | 112 | 472 | 317 |
| 1-H | 4,3 | 3,3 | 7,3 | 6,5 | 18 | 17 | 29 | 27 | 53 | 48 | 83 | 72 | 218 | 142 | 616 | 401 |
| 1-M | 5,5 | 3,2 | 14 | 12 | 25 | 22 | 38 | 35 | 67 | 60 | 132 | 108 | 262 | 202 | 740 | 571 |
| 1+2-m | | | | | | | | | 20 | 18 | 37 | 32 | 68 | 52 | 192 | 155 |
| 1+2-H | | | | | | | | | 30 | 28 | 53 | 43 | 88 | 72 | 248 | 203 |
| 1+2-M | | | | | | | | | 40 | 37 | 67 | 63 | 123 | 115 | 347 | 324 |
| 1~3-m | | | | | | | | | | | 22 | 20 | 37 | 33 | 125 | 108 |
| 1~3-H | | | | | | | | | | | 34 | 32 | 63 | 50 | 176 | 165 |
| 1~3-M | | | | | | | | | | | 46 | 43 | 77 | 73 | 233 | 217 |
| 1~4-m | | | | | | | | | | | | | 27 | 24 | 88 | 72 |
| 1~4-H | | | | | | | | | | | | | 43 | 40 | 140 | 132 |
| 1~4-M | | | | | | | | | | | | | 58 | 55 | 180 | 167 |

m= calibration at min span H= calibration at Half span M= calibration at Max span * Close by flow rise (L/min) of contact open at no flow position

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

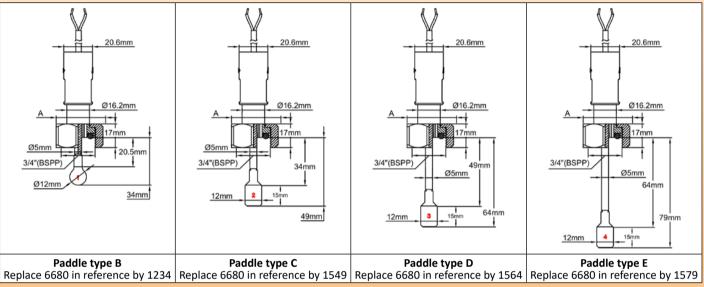
Paddle flow switches, reed switch contact, external body. Type: R1X



Main references (With type A cleavable paddle)

| Calibration | Electrical connection | | | | | | | | | | |
|--|-----------------------|------------------|------------------|---|--|---|--|--|--|--|--|
| (Calibration force ±15%, measured at end of paddle N°1) | 500 mm cable | 2 m Cable | 3m Cable | Waterproof connection box with M16×1.5 cable gland | Waterproof connection box with 4 pins, M12×1 | Waterproof connection box with DIN 43650-A connector | | | | | |
| Low span end: 3gr | R1X636680G35N050 | R1X636680G35N200 | R1X636680G35N300 | R1X636680G35N00C | R1X636680G35N00L | R1X636680G35N00D | | | | | |
| Middle span: 7gr | R1X676680G35N050 | R1X676680G35N200 | R1X676680G35N300 | R1X676680G35N00C | R1X676680G35N00L | R1X676680G35N00D | | | | | |
| High span end: 14gr | R1X6E6680G35N050 | R1X6E6680G35N200 | R1X6E6680G35N300 | R1X6E6680G35N00C | R1X6E6680G35N00L | R1X6E6680G35N00D | | | | | |

Other paddles (Non cleavable models)



Consult us for flow detection values with these paddles. OEM paddles can be made on order (MOQ apply).