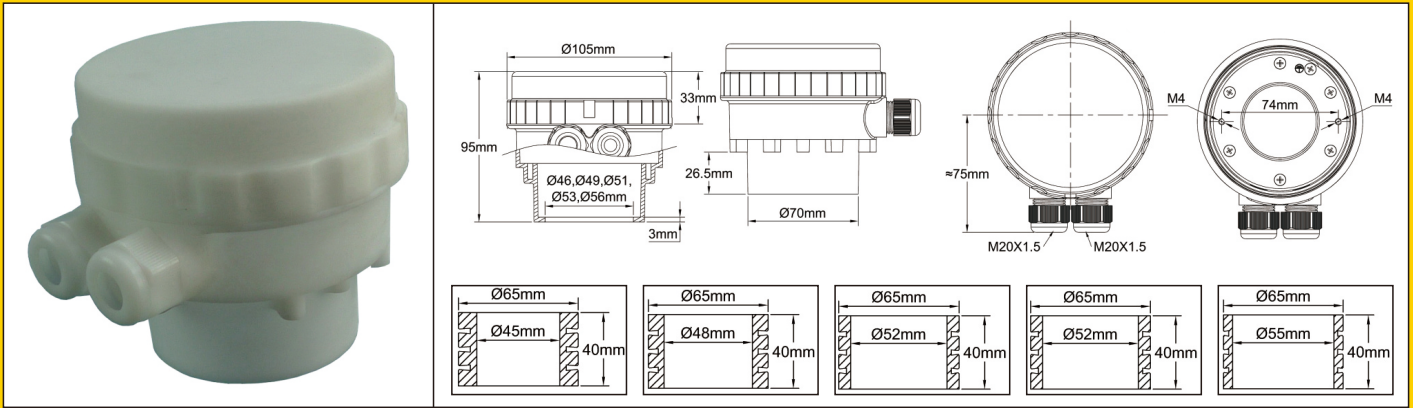


Polypropylene or PVDF immersion heater connection boxes, for corrosive environment applications, IP66, type Y3C6



Material: PP (orange) or PVDF (White) cover and bottom.

Screws: There is no external screw in this housing.

Cover: Screwed cover, with Molded FPM (Viton) fluoroelastomeric polymer O-ring gasket. Cover can be tightened by hand or with a double hook wrench.

Cable glands: 2 cable glands M20; The cable gland body is molded in the bottom, to avoid leaks. Cable gland nuts are molded in the same material than the bottom. Cable gland gaskets are molded in FPM (Viton) fluoroelastomer. (This material is named FKM upon ASTM standard and FPM upon DIN/ISO)

Heating element protection tube mounting and tightening: Sealing is achieved by a very long seal with multiple compression lips, which can be used on metal tubes, and tubes in glazed porcelain, quartz, glass, or plastic like Teflon or Polypropylene. The compression of the seal is formed by an inner metal ring and 6 screws. The system contains no metal parts in contact with corrosive liquids or ambient atmosphere.

In the inner tubes of titanium or stainless steel of our production, this ring is made of the same material as the tube and is welded at its end. This ring includes a grounding terminal. These tubes allow to use common soapstone heating elements of 47mm dia. They are supplied with the seal corresponding to the diameter of the heater, the compression ring and screws.

Holes for heating tubes: There are 5 possible holes for heating tubes dia. 45, 48, 50, 52, 55 mm covering the full range of products available on the market, including traditional sheathed tubular heating elements with M45x2 or 1"1/2 fittings, double thread or with rotating ring. **NB:** The drilling diameter is 1mm greater than the tube.

Temperature resistance:

- Polypropylene version: room temperature or temperature transmitted by conduction from the heater tube $\leq 80^\circ\text{C}$

- PVDF version: room temperature or temperature transmitted by conduction from the heater tube $\leq 110^\circ\text{C}$

Accessory mountings : Inside the enclosure, there are two M4 threaded holes, 74mm distance, which can be used for mounting the BE6E600000MP000 terminal block.

Tank side mounting: can be made with the polypropylene or PVDF flange (ref: 66Y3C6B1001Q or 66Y3C6B1001R). The enclosure is slightly forced into the flange. It is possible to secure it by using the 6 titanium screws which are provided.

Instrumentation: These enclosures may receive, in addition to heating elements, the same options for temperature control or temperature measurement than the YF5 series, provided that the ceramic body of the coiled heater has a central hole for the passage of the measuring elements, and has also a non-heating zone at its bottom to place the probe or the bulb. For more information, contact our technical department.

Basic references, Polypropylene and PVDF, without accessories

Material	Drill dia. 46mm	Drill dia. 49mm	Drill dia. 51mm	Drill dia. 53mm	Drill dia. 56mm
PP	Y3C6U2BQB1TT00QU	Y3C6U2BQB2TT00QU	Y3C6U2BQB3TT00QU	Y3C6U2BQB4TT00QU	Y3C6U2BQB5TT00QU
PVDF	Y3C6U2BRB1TT00RT	Y3C6U2BRB2TT00RT	Y3C6U2BRB3TT00RT	Y3C6U2BRB4TT00RT	Y3C6U2BRB5TT00RT

Accessories

PA66, 6 ways connection block	Double hook wrench for lid	Tank side PP or PVDF mounting bracket	Heater tube, SUS 316L, 316L-Ti or Titanium dia 50mm	Heating tube, quartz dia. 55mm	Rotation or double thread fittings
					For full range and references of fittings, nuts and gaskets: See catalogue N°2.
BE6E600000MP000	66Y3C6HW001	PP 66Y3C6B1001Q PVDF 66Y3C6B1001R	316L 66Y3C61605010xxx 316L-Ti 66Y3C6T605010xxx Ti 66Y3CTI05010xxx xxx=L in mm	66Y3C6QU05525xxx xxx=L in mm	

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