

FLANGE IMMERSION HEATERS

The flange immersion heater consists of tubular heating elements mounted on a flange. They have a high performance of heating or holding the temperature of liquids and gases. Flange immersion heaters are designed and manufactured according to customer specifications.

APPLICATIONS

- Holding the temperature and heating large volumes of gases or liquids
- Heating of static or moving fluids
- Mounted in tanks, cisterns, boilers or exchangers, etc.
- Designed for a pressure up to 300 bar
- Power up to 5 MW
- Process temperature up to +650 °C
- Maximum voltage 750V

TUBE MATERIAL

- AISI 321 stainless steel (1.4541)
- AISI 316L (1.4404)
- Incoloy 800 (1.4876)
- Titanium
- Teflon™ (PTFE), Halar specific covering

TUBE DIAMETER 8,5 / 10 / 12 / 16 mm

FLANGE

All diameters (including large sizes)
NF EN 1092-1 (EU PN standard) - NF EN 1759-1 (EU Class standard)
ASME B16-5 (American standard). Other standards on request
Materials depending on application and standard (carbon steel, stainless steel, other)

TEMPERATURE CONTROL

Temperature sensors (thermostat, limiter, thermocouple or PT100) at the centre (process control) or on the heating element (safety control).

TROPICALISATION

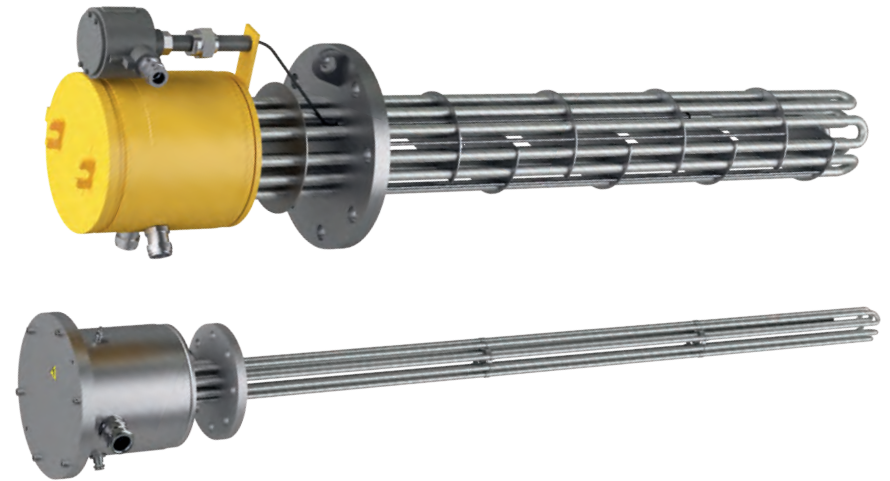
Specific materials and components, insulated heat shrink terminals, for extreme atmospheres (humidity, temperature).

CONNECTION BOX

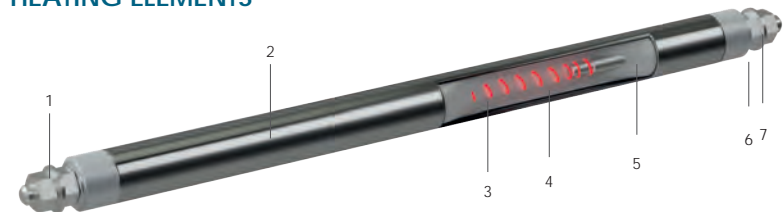
IP55 - IP65 - IP68. Painted steel, stainless steel, aluminium.
Cable glands of polyamide, nickel-plated brass or stainless steel, steel

DOCUMENTAZIONE STANDARD

Certificate of conformity, wiring diagram, instruction manual



HEATING ELEMENTS



1. Connection terminals
2. Tube
3. Insulation: magnesium oxide (MgO), which ensures an optimal heat transfer and electrical insulation.
4. Stranded resistor: the active part of the element is made of Nickel Chrome 80/20 heating (Joule effect)
5. Cold section
6. Sealant: ensures insulation from external moisture. Different materials (silicone, resin, cement) are used depending on the application.
7. External insulation: steatite insulating plug.