

Tube resistances can be used for a wide variety of purposes. It is used for the purpose of heating water, oil, chemical and corrosive liquids, and for the heating of molds and different metals in industrial furnaces safely for many years.

Tube resistances are produced in various diameters. The standard diameter measures are 6.5 mm - 8.5 mm - 11.5 mm - 14.5 mm - 16.00 mm. Apart from these sizes, all sizes between diameter of 5mm to 20 mm can be produced easily as a tailor made production.

Our tube resistances can be used operatively up to 650 degrees operating temperature in line with current and the latest technological developments.

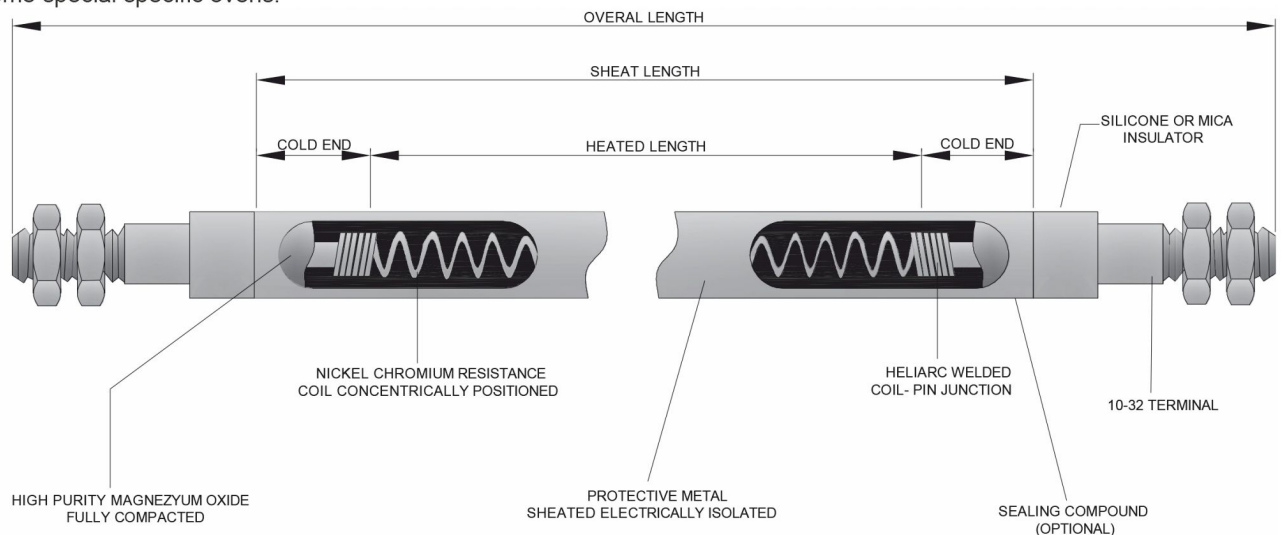
Stainless steel materials of various grades are used in the production of tube resistances. The main ones are; 304-321-316-310 S stainless steels. Apart from these, resistances can be produced using special alloy stainless pipes.

These materials are Alloy800 - Alloy825 and Alloy600.

Tube resistances can be produced in connection with the sleeve and flange, so that many resistances can be gathered together and higher powers can be generated in a limited area.

Tube type resistances can be produced as tailor-made according to demand in various ways. To give an example; flat Rod, U Type, M type are the most common forms of use for resistances.

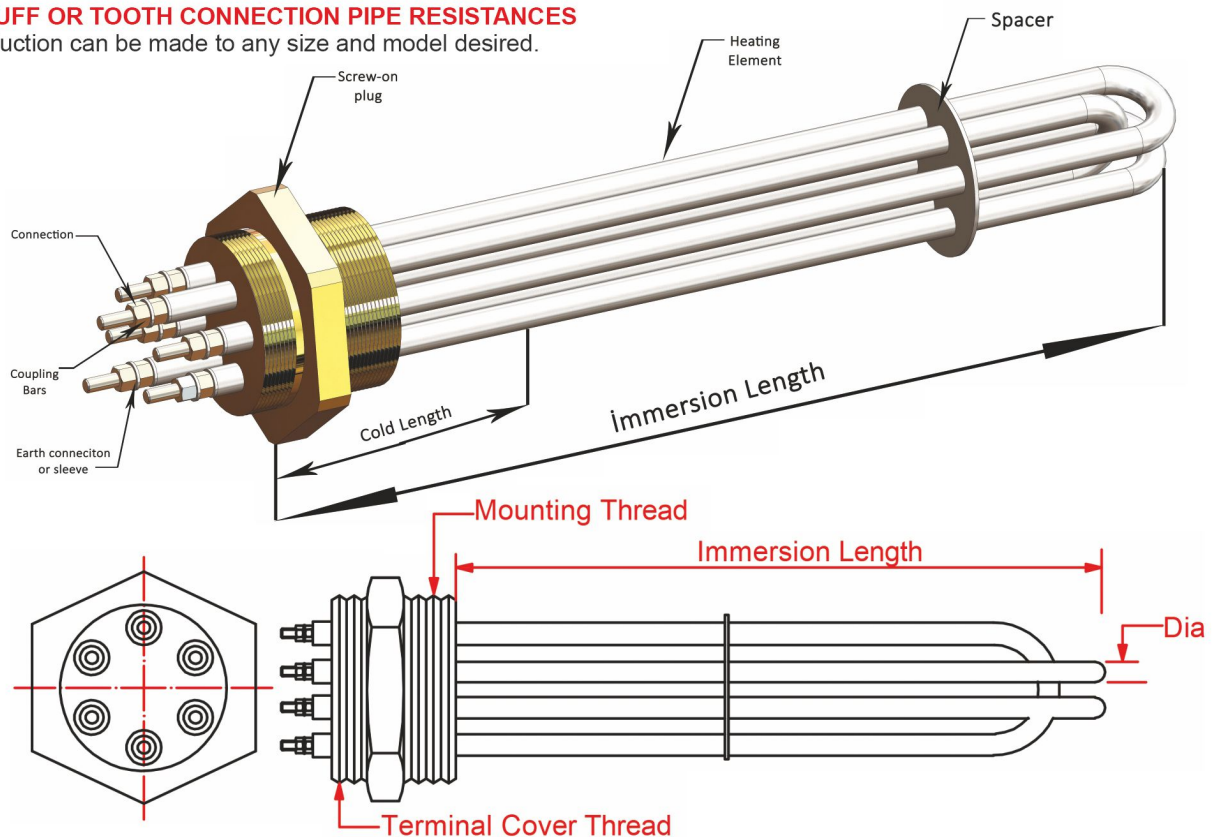
Our company can produce flat shaped tube resistances in addition to round tube type resistances. The most common uses of this flat type of tube resistances are shears heaters on railway tracks, oil heaters in industrial fryers and dry air heaters in some special specific ovens.



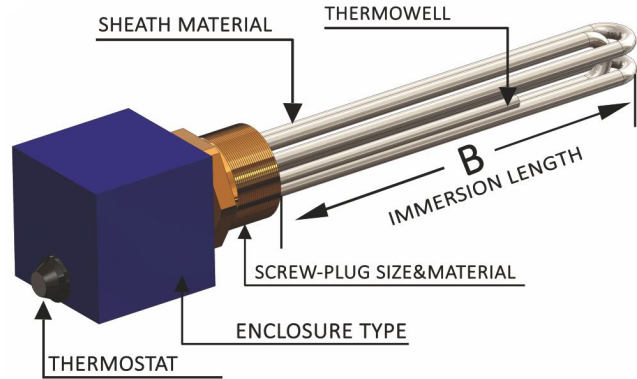
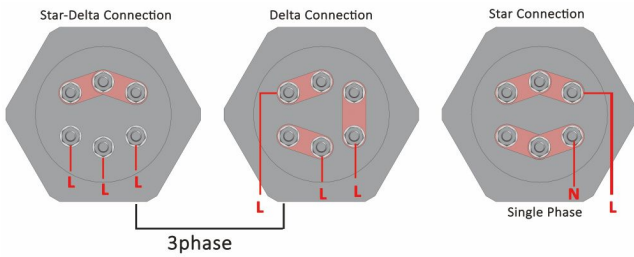
PIPE RESISTANCE TYPES

1- CUFF OR TOOTH CONNECTION PIPE RESISTANCES

Production can be made to any size and model desired.

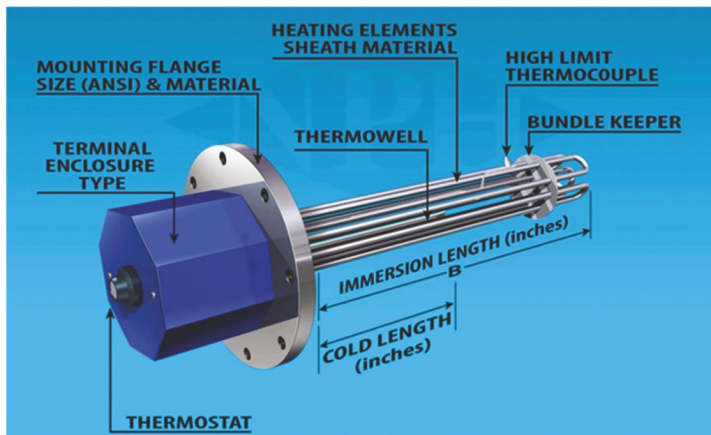


1- CUFF OR TOOTH CONNECTION TUBE RESISTANCES



2- FLANGE CONNECTED TUBE RESISTANCES

Production can be made to any size and model desired.



Input Data

- Application
- Type of fluid
- Pressure
- Inlet and outlet temperature
- Flow rate (mass or volume)
- Ambiant area
- Voltage (V)
- ATEX/IECEx or not temperature class
- Max. immersed length
- Directives, standards construction codes
- Flow direction

BAYKAL Thermal desing and after Design procedure to optimize your product

- Power
- Choice of techonology and product type
- Watt density (W/cm²)
- Number of heatin elements
- Material / Tube diameter
- Type and number of baffles/ bundle spider
- Type of flange
- Type of assembly (welding or brazing)
- Heating length (HL)
- Cold length (CL)
- Stand-off length (SOL)
- Cooling discs and heat shields
- Temperature control and safety, type of sensor
- Connecting box / Cable gland construction codes
- Qotation: roice and delivery time

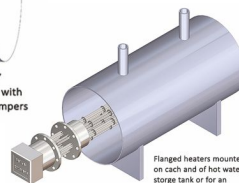
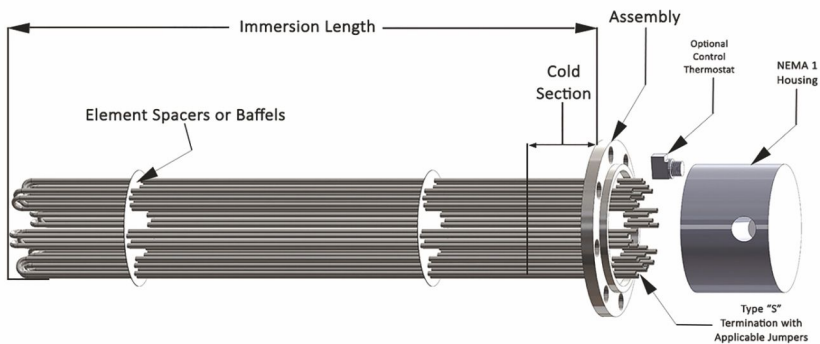
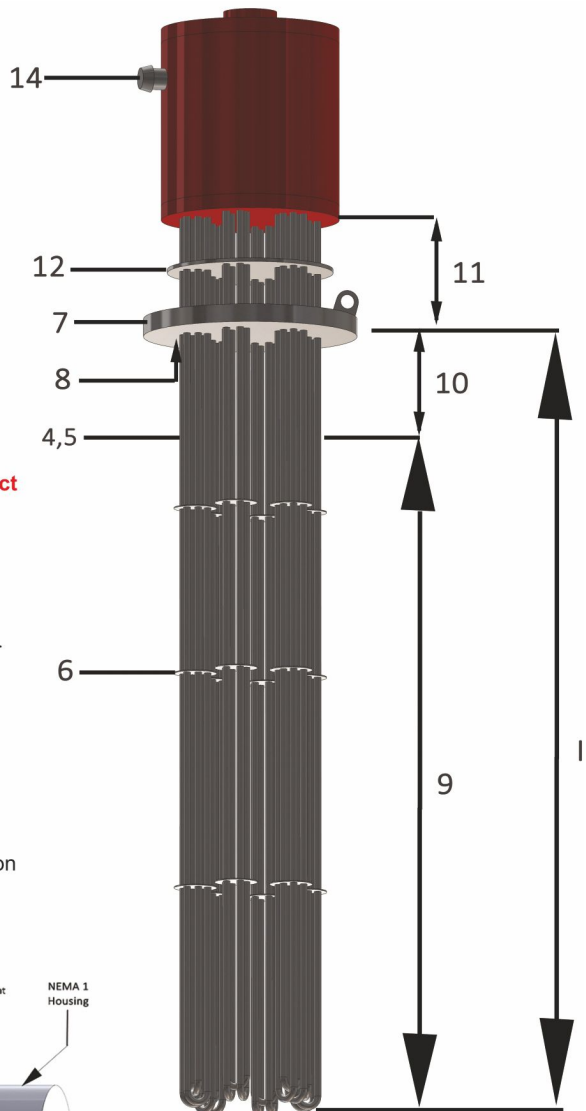
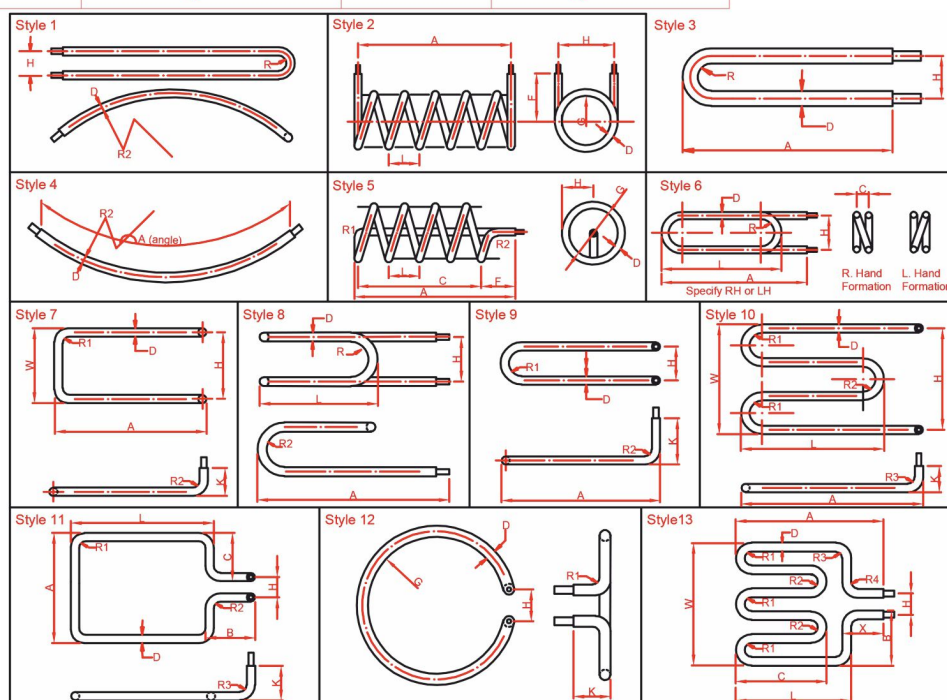
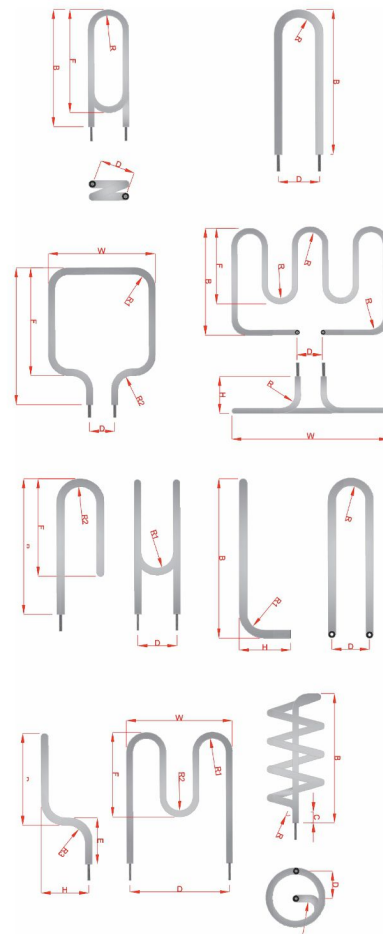
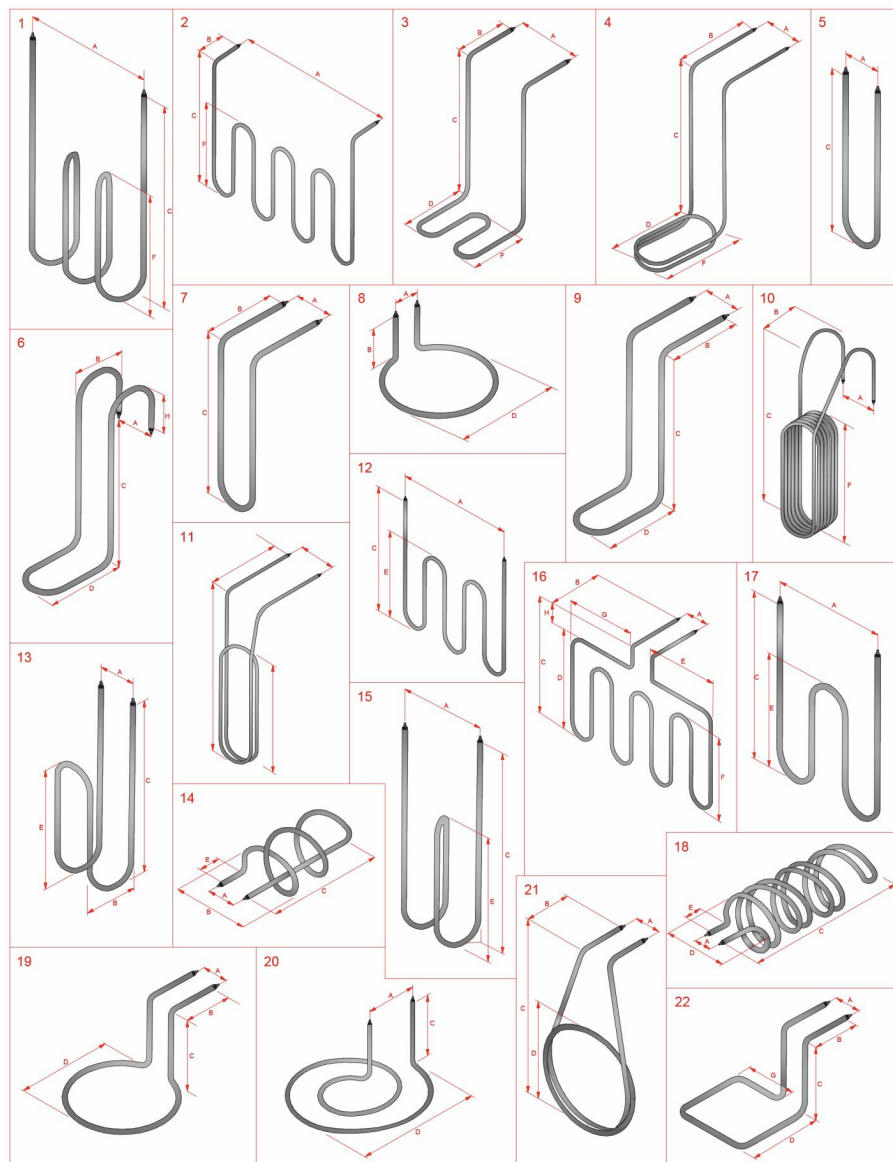
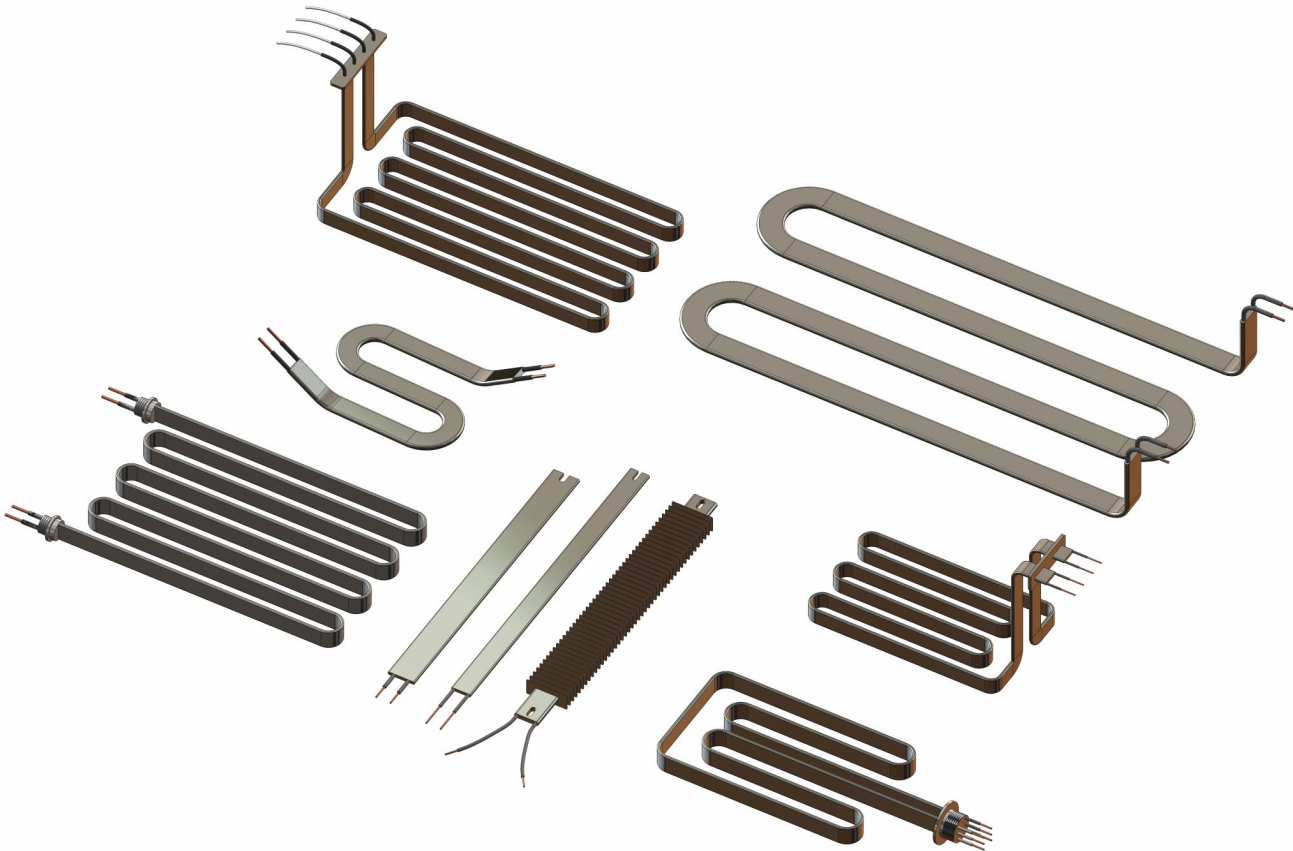


fig. Flange Immersion Heaters

3-TUBE RESISTANCES FOR SPECIAL USE IN DIFFERENT WAYS AND TYPES



4-FLAT TYPE TUBE RESISTANCES



5-MANIFOLD RESISTANCES / SQUARE TYPE TUBE RESISTANCES

6*6mm - 8*8mm - 10 * 10mm sizes can be produced in different voltages and powers of any size and extent desired.

