FLANGE IMMERSION HEATERS

Heat-Edge® Flanged Immersion Heaters are designed for use in tanks and pressurized vessels to heat both liquids and gases. They mate to female flange that is either welded to a tank wall or, in circulation heaters, to a pipe.

**Design Features**

Heat-Edge® have the following features, which makes them suitable for a wide range of applications.

- **a.** Default: 150 lbs ANSI RF Flange - Mild Steel or SS304 or SS316 steel flanges.
- **b.** Customised flanges according to customer requirements.
- **c.** SS304, SS316 and/or Incoloy 840 Elements.
- **d.** Default, Ø9.5 mm sensor pockets.
- **e.** Default built-in Thermostat.
- **f.** NEMA 1 General Purpose Terminal Housing.

**Construction**

Heat-Edge® Flanged Immersion Heaters are constructed with tubular heating elements that are machine compacted, MgO powder insulation to ensure excellent dielectric strength and optimum heat transfer properties.

Hairpin bends are done with specially designed dies to maintain the integrity of the insulation after being formed. The elements are either TIG welded or Siver Brazed to the flange and pressure tested. All electrical wiring are enclosed in a NEMA 1 protective housing.

All flange immersion heaters are subjected to the following tests:

1. Resistant Test - For Wattage Measurement
2. Insulation Test - For Leakage Current Resistance
3. High DC Voltage Test - Insulation To Ground/Short Circuits
4. Hydrostatic Test, at 12 Bar for 2 hours - For leakproof test on all weldings of the elements to the flange.

**Industrial Applications**

- Hot water tanks
- Boiler heaters
- Asphalt / Bitumen, paraffin, wax heaters
- Oil process heaters
- Heat transfer Oil heaters
- Corrosive and non-corrosive solutions
- Air and Gas heaters
- Heat transfer equipment
- Vapour Degreases

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**REFERENCE TABLE**

<table>
<thead>
<tr>
<th>Flange Size</th>
<th>Flange Mounting</th>
<th>Flange Thickness</th>
<th>Mounting Bolt Circle</th>
<th>Flange Diameter</th>
<th>Cold Zone Length</th>
<th>Bundle Diameter</th>
<th>NEMA 1 Housing</th>
<th>Number Of Elements</th>
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</thead>
<tbody>
<tr>
<td>ANSI 150 lbs RF</td>
<td>Bolt Hole</td>
<td>&quot;T&quot;</td>
<td>&quot;PCD&quot;</td>
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<td>&quot;CZ&quot;</td>
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SANITARY FLANGE FOOD GRADE IMMERSION HEATER

To Order: Please specify the complete assembly, indicate the code letter or value for each option.

<table>
<thead>
<tr>
<th>Model</th>
<th>Flange</th>
<th>Length - $L_H$</th>
<th>Cold Zone - $CZ_H$</th>
<th>Element(s)</th>
<th>Sheath</th>
<th>Wattage</th>
<th>Supply</th>
<th>Phase</th>
<th>Type</th>
<th>Pocket</th>
</tr>
</thead>
</table>

"O" - Ring

$P_L$

$\odot 62\text{mm}$

$1/4''$

$L_H$

PCD: 55mm
SANITARY FLANGE FOOD GRADE IMMERSION HEATER ORDER CODE TABLE

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**Material**

| HE - SRF25 | 2-1/2" Sanitary Round Flange |

**Type**

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- 2-1/2" Sanitary Round Flange Immersion Heater
- SS316 Flange
- 350mm... Immersion Length
- 30mm, Cold Zone
- 3 Elements
- SS316 Sheath Material
- 2,000 Watts... Wattage
- 220 Vac... Supply
- 3 Phase
- Delta Connection
- 200mm... Sensor Pocket

Example: