

# *Flanged Immersion Heaters*

Flanged Immersion Heaters are used in large capacity vessels, for high temperature and pressure applications.

Flanged Immersion Heaters are installed by bolting the unit to a matching flange welded to the vessel. Watt densities from 90 Watts/sq inch, Explosion Proof (NEMA 7), Corrosion Resistant (NEMA 4X), General Purpose and Standoff Terminal housings are available. A number of sheath materials like Titanium, Incoloy, Stainless Steel, Steel, and Copper can be used as required for specific applications.

Standard Flanged Immersion Heaters have a 150 lbs flanges but 300 lbs flanges are also available. To guarantee sheath material and watt density compatibility with material or process being heated consult HCS.

## **Flanged Immersion Heaters Feature**

- High watt densities, wattage's in smaller areas
- Passivated 316 stainless steel option
- Sheath temperatures to 1200°F
- Low watt densities possible for delicate applications
- ANSI flanges from 2" to 24"
- High pressure flanges 300 lbs
- Applications solids, liquids, gases.



## **Flanged Immersion Heaters Specifications / Options**

Voltages. . . . . 120 to 600 Volts Single or Three Phase  
Wattage's. . . . . Varied from 150 watts to 1 Megawatt  
Sheath Materials. . . . . Titanium, Monel, Incoloy, 316/304 Stainless, Steel Copper, Carbon Steel  
Max Temperatures. . . . . Incoloy 1600 degrees F (870 C)  
304 / 316 Stainless Steel 1200 degrees F (650)  
Steel 750 degrees F (400 C)  
Copper 350 degree F (175 C)  
Flanges. . . . . ANSI or ASA 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 18, 20, 24, or over 24 consult HCS  
Pressure Rating. . . . . 150, 300 or 600 lbs  
Flange Materials. . . . . Standard Carbon Steel or 316/304 Stainless  
Gaskets. . . . . Rubber, Asbestos Free, or Spiral wound  
Terminal Enclosures. . . . . General Purpose (NEMA 1 ),  
Moisture Resistant (NEMA 4),  
Corrosion Resistant (NEMA 4X),  
Explosion Resistant (NEMA 7),  
Explosion Moisture Resistant (NEMA 7/4)  
Temperature control. . . . . Thermocouple, RTD, or Thermostat  
High Limit. . . . . High Limit Thermocouple, Hi Limit Tstat,  
Approvals. . . . . CSA, UL  
Certification. . . . . ASME, CRR

***HCS Heaters Controls & Sensors Ltd HCS***

***60- Meg Dr Unit 13***

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