



### Custom Designed Flanged Heater for Sanitary Process Solutions

Sanitary fittings are commonly used in the commercial food, dairy and soft drink processing industries. Compared to common pipe flange connections, the sanitary pipe connections' crevice-free interiors provide quicker access for easier cleaning.

Fittings and pipe made from 304 Stainless Steel is suitable for most food industry applications. Type 316L, which is more corrosion resistant, is commonly used in the pharmaceutical and chemical industries.



#### Design Features

- \* 304 SS flange (end cap) suitable for most food applications
- \* 316L SS flange (end cap) used in chemical industries
- \* 304 SS, 316 SS and Incoloy heating elements
- \* Element hairpin bends are spanked in specially designed dies to re-compact the MgO insulating powder
- \* Silicone resin seal of elements standard
- \* NEMA 1 electrical enclosure standard, NEMA 4/7 optional

#### Heater Construction

This passivated heater assembly consists of tubular electric heating elements welded into a 6" sanitary end cap fitting which would then be clamped to another fitting in the system. This particular sanitary process uses manufacturer Alfa Laval's fittings.



#### Connection Components

A typical sanitary type connection is made by joining two ferrules together with a clamp and a gasket. The ferrule is the end of the fitting or pipe that has a lip with a gasket groove making it half of a finished connection.



The heater in the picture at right is shown clamped to the Butt-Weld fitting shown on the left.

### Ordering Information

#### Catalog Heaters

Sanitary Flanged Immersion Heaters are custom manufactured to meet the requirements of specific applications.

#### Custom Engineered/Manufactured Heaters

TEMPCO will design and manufacture a Sanitary Flanged Immersion Heater to meet your requirements. **Standard lead time is 4 weeks.**

**Please Specify** the following:

- |   |   |
|---|---|
| <input type="checkbox"/> Wattage, Voltage and Phase         | <input type="checkbox"/> Element Immersion Length     |
| <input type="checkbox"/> Flange (End Cap) Size and Material | <input type="checkbox"/> Surface Treatments           |
| <input type="checkbox"/> Element Sheath Material            | <input type="checkbox"/> Electrical Enclosure Type    |
| <input type="checkbox"/> Element Watt Density               | <input type="checkbox"/> Other Type Sanitary Fittings |

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).