



**THERMAL
PRODUCTS** INC.
Engineered Solutions To
Industrial Applications

Indeeco screw plug heaters provide all the benefits of customization and now delivery in as little as 5 days

Key Features

- Permanent bussing with lead wire connection
- Element spacers standard on all sizes
- Every heater hydro tested
- Complete epoxy seal
- 360° Repress on all bends

Performance Features

- Wattages up to 54 kW
- Watt densities up to 100 W/in²
- Voltages up to 600 V
- Sheath temperatures up to 1200° F

Typical Applications

- Water
- Industrial rinse tanks
- Vapor degreasers
- Hydraulic oil, crude, asphalt
- Lubricating oils
- Gases
- Caustic solutions
- Chemical baths
- Boiler equipment
- Glycol solutions
- Paraffin



FastTrack
Availability

Our products do more in a wide range of applications. **Expect More.**

Key Features and Benefits

Permanent Bussing with Lead Wire Connection

Permanent bussing eliminates the chance of failure due to loose connections. Wire lead connections allow for convenient power connection.

Element Spacers Standard on all sizes

Element spacers reduce the chances of failure due to hotspots where elements touch.

Every Heater Hydro Tested

Each heater is hydro tested to 1-1/2 times the pressure rating ensuring a leak free heater.

Complete Epoxy Seal

A complete epoxy poured seal eliminates the chance of moisture entering the heating element causing failure.

360° Repress on all bends

A complete 360° repress minimizes the chance of failure at the element bends where cracks in the MGO, formed during bending, typically result in a voltage path to ground.

Available Features

Multiple Sheath Materials

Copper, steel, 304 stainless steel, 316 stainless steel, 321 stainless steel, incoloy 800, incoloy 840, inconel 600*, and monel 400.

Multiple Header Materials

Steel, brass, 304 stainless steel, 316 stainless steel*, and other custom metals*.

Sizes

1" NPT, 1-1/4" NPT, 2" NPT, 2-1/2" NPT, and 3" NPT*

Terminal Boxes

General purpose, weather tight, and explosion resistant* enclosures available. Also available without terminal box.

Thermostats

Bulb and capillary pilot duty or load carrying thermostats can be provided to control the heater or to provide over-temperature protection. The thermostat bulb can be installed in a thermowell to sense process or element sheath temperature.

UL/CSA Approval

Available on most heaters.

Special Cold End Lengths

Standard cold lengths are 3/4" for copper and 2-9/16" for stainless and steel. Additional cold lengths can be provided.

Thermocouples

Type J or K thermocouples can be provided to monitor the process or element sheath temperatures. Thermocouples provided with a ceramic wafer head and screw terminals for ease of wiring. Alternate type E or T available but not FastTrack eligible.

Pickle and Passivate*

A chemical treatment in nitric acid can be performed to remove free iron from the outer surface of stainless steel for applications sensitive to contaminants.

Electro-polish*

Is a process similar to plating using cathode and anode reactions but material is removed rather than added to the heater surfaces in order to provide a clean and bright finish.

* Not eligible for FastTrack

