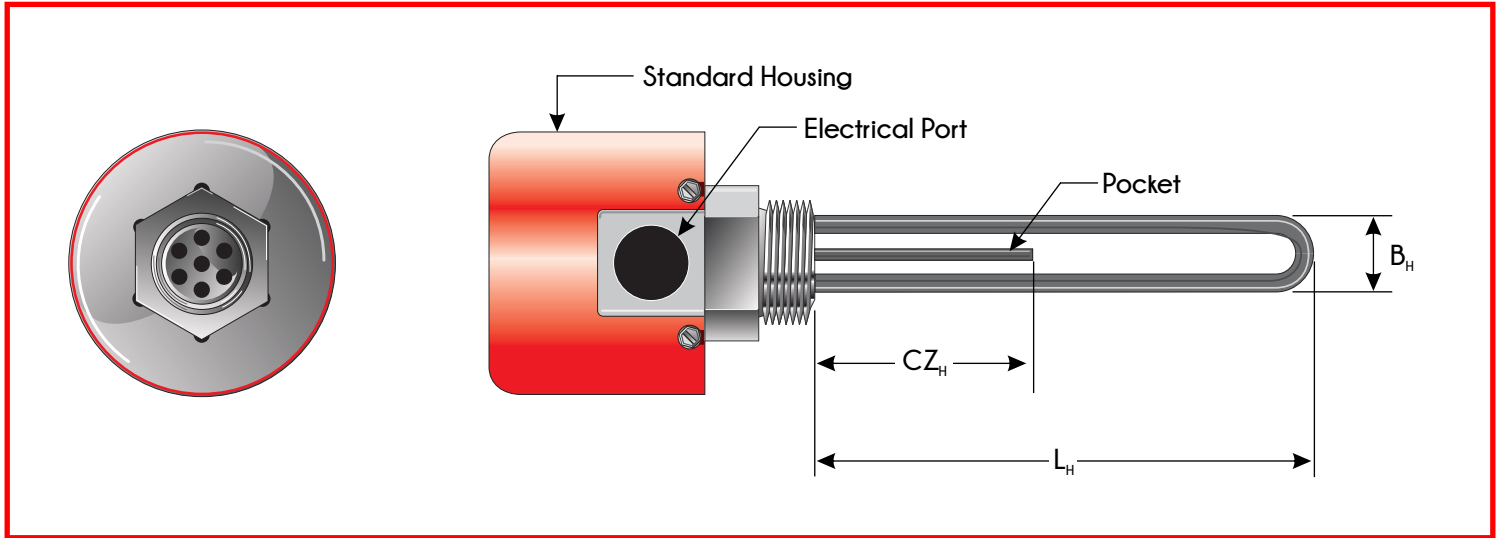


## SCREW PLUG IMMERSION HEATERS



REFERENCE TABLE

Elements And Dimensions

Process Connection	Diameter		TPI	Maximum Number of Elements			
	Outer	Inner		Dia. 8.2mm	Bundle Dia.	Dia. 11.2mm	Bundle Dia.
1" BSP	33.0mm	-	11	2	24.0mm	1	24.0mm
1-1/2" BSP	47.0mm	-	11	3	32.6mm	3	38.0mm
2" BSP	58.6mm	-	11	3	46.2mm	3	49.2mm
2-1/2" BSP	75.0mm	-	11	3	52.2mm	3	59.2mm
2-1/2" BSP	75.0mm	-	11	6	56.2mm	-	-
1" NPT	33.4mm	30.5mm	11.5	2	24.0mm	1	24.0mm
1-1/2" NPT	48.2mm	45.6mm	11.5	3	36.2mm	3	38.0mm
2" NPT	60.3mm	57.6mm	11.5	3	46.2mm	3	49.2mm
2-1/2" NPT	73.0mm	69.0mm	8	3	56.2mm	3	59.2mm
2-1/2" NPT	73.0mm	69.0mm	8	6	56.2mm	-	-

**Screw Plug Immersion Heaters** consists of tubular elements welded or brazed into a threaded screw plug which can be inserted into a threaded opening in tank wall or through a mating full or half coupling.

### Typical Applications

#### Copper Sheath

Process water, water with very weak chemical solutions, demineralized, deionized or pure water, hot water storage for washrooms, showers, cleaning and rinsing parts, for freeze protection of cooling towers and sprinkler systems and other aqueous solutions not corrosive to proper sheath. Sheath temperatures to 350°F (177°C).

#### Incoloy® Sheath

Weak chemical solutions, oil, tar, caustic soda, detergent, alkaline solutions, molten salts, demineralized, deionized or pure water (sheath passivation is recommended), and other aqueous solutions not corrosive to Incoloy® sheath. Air, gas mixtures and super heated steam. sheath temperatures to 1600°F (871°C).

#### Steel Sheath

Fluid heat transfer media, tar, high to low viscosity petroleum oils, asphalt, wax, paraffin, degreasing solvents, alcohol, molten salt, and other solutions not corrosive to steel sheath. Sheath temperatures to 750°F (399°C).

### Design Features

- Stainless steel, brass or steel screw plugs
- Four standard NPT screw plug sizes - 1", 1-1/2", 2", 2-1/2"
- Recompacted element bends restore insulation resistance after forming
- Pocket for thermostat bulb
- Corrosion-resistant electrical wiring hardware
- Four standard sheath materials - Incoloy® 840, SS304 Stainless Steel and 316 Stainless Steel
- NEMA 1 round terminal housing

### Optional Features

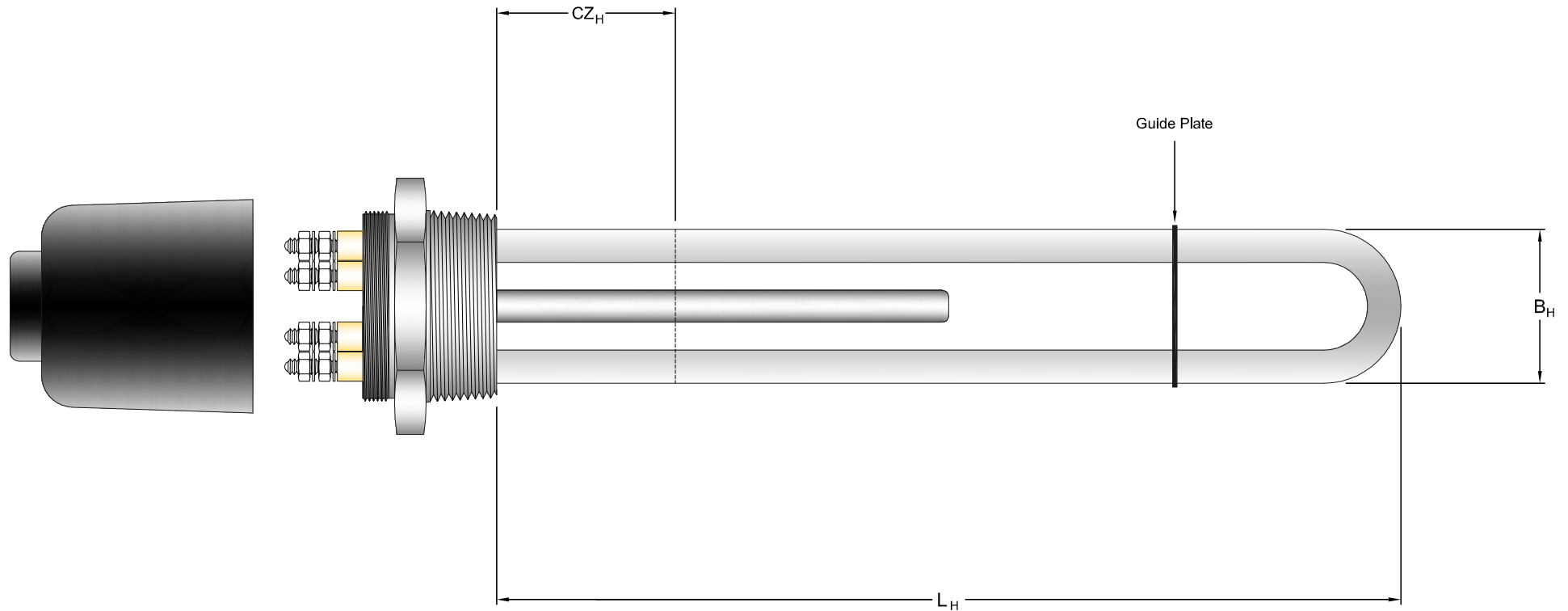
- NEMA 4 Moisture-Proof
- Integral Single or double Pole thermostats in several temperature ranges
- Type J or K thermocouples for extremely accurate sensing of process temperatures, or when attached to the sheath, for over-temperature protection
- Special sheath material

# SCREW PLUG IMMERSION HEATER



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

Model	Connection	Length - $L_H$	Cold Zone - $CZ_H$	Element(s)	Sheath	Wattage	Supply	Phase	Type	Cover



# SCREW PLUG IMMERSION HEATER ORDER CODE TABLE



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

Model	Connection		Length - L <sub>H</sub>	Cold Zone - CZ <sub>H</sub>	Element(s)	Sheath	Wattage	Supply	Phase	Type	Cover
HE - SP212	N	S4	1000	50	3	S4	3000	220	30	D	BKE

Connection	
N	NPT
B	BSP

Material	
BR	Brass
S4	Stainless 304
S6	Stainless 316

Material	
S4	Stainless 304
S6	Stainless 316
Inc840	Incoloy 840

Phase	
1P	Single Phase
3P	Three Phase

Type	
D	Delta
Y	Wye

Type	
BKE	Bakelite
S4	Stainless 304

Model	Description
HE - SP1	1" Screw Plug Immersion Heater
HE - SP112	1-1/2" Screw Plug Immersion Heater
HE - SP2	2" Screw Plug Immersion Heater
HE - SP212	2-1/2" Screw Plug Immersion Heater

Example:

HE - SP212	N	S4	1000	50	3	S4	3000	220	3P	D	BKE
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- 2-1/2" Screw Plug Immersin heater
- NPT Connection
- SS304 Screw Plug
- 1,000mm Immersion Length
- 50mm Cold Zone
- 3 Elements
- SS304 Sheath Material
- 3,000 Watts... Wattage
- 220 Vac... Supply
- 3 Phase
- Delta Connection
- Bakelite Cover

REFERENCE TABLE							
Elements And Dimensions							
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