

Screw Plug Immersion Heaters

Ideal for Direct Immersion Heating of Liquids

Screw plug immersion heaters are ideal for direct immersion heating of liquids, including all types of oils and heat transfer solutions.

Available in a variety of sizes, Watlow® screw plug immersion heaters feature both WATROD™ round and FIREBAR® flat tubular elements.

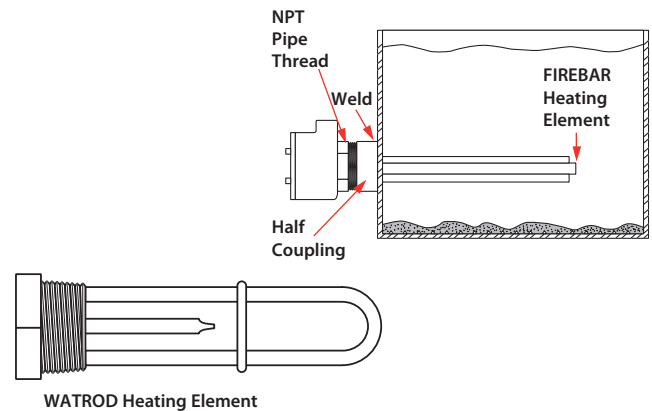
Heating elements are hairpin bent and either welded or brazed into the screw plug—depending on element sheath and plug material compatibility.

General purpose terminal enclosures are standard; with optional moisture resistant, explosion resistant and explosion/moisture resistant enclosures available to meet specific application needs.

Optional thermostats provide convenient process temperature regulation.

Performance Capabilities

- Watt densities up to 120W/in² (18.6 W/cm²)
- Wattages up to 38 kilowatts
- UL® and CSA component recognition up to 480VAC and 600VAC respectively
- Alloy 800/840 sheath temperatures up to 1600°F (870°C)
- Passivated 316 stainless steel sheath temperatures up to 1200°F (650°C)
- 304 stainless steel sheath temperatures up to 1200°F (650°C)
- Steel sheath temperatures up to 750°F (400°C)



Features and Benefits

A variety of element sheath and screw plug materials

- Meets a variety of application needs

Integral thermowells

- Provides convenient temperature sensor insertion and replacement without draining the fluid being heated

Terminal enclosures

- Provides ability to be rotated to simplify connection with existing conduits

Welding or brazing WATROD and FIREBAR elements to the screw plug

- Provides a pressure tight seal

WATROD hairpins are repressed (recompacted)

- Maintains magnesium oxide density, dielectric strength, heat transfer and life

2-1/2 in. (64 mm) NPT screw plug assemblies feature element support(s)

- Ensures proper spacing for maximizing heater performance and life

Typical Applications

- Water:
 - Deionized
 - Demineralized
 - Clean
 - Potable
 - Process
- Industrial water rinse tanks
- Vapor degreasers
- Hydraulic oil, crude, asphalt
- Lubricating oils at API specified watt densities
- Air and gas flow
- Caustic solutions
- Chemical baths
- Anti-freeze (glycol) solutions
- Paraffin

Specifications

- **Screw plug and element sizes:**

1 in. NPT	0.260 and 0.315 in. WATROD
1 1/4 in. NPT	0.260 and 0.315 in. WATROD 1 in. FIREBAR
2 in. NPT	0.430 and 0.475 in. WATROD
2 1/2 in. NPT	0.430 and 0.475 in. WATROD 1 in. FIREBAR

- **Phase capability:**

1 in. NPT	1-Phase
1 1/4, 2, 2 1/2 in. NPT	1- or 3-Phase

UL® and CSA component recognition under File E52951 and 31388 respectively.

Options

Terminal Enclosures

General purpose terminal enclosures, without thermostats, are available on all screw plug immersion heaters. To meet specific application requirements, Watlow offers the following optional terminal enclosures:

- General purpose with single- or double-pole thermostat
- Moisture-resistant or corrosion-resistant available with optional single- or double-pole thermostat
- Explosion-resistant Class 1, Groups B, C and D explosion resistant available with optional single- or double-pole thermostat
- Explosion and moisture-resistant combination available with optional single- or double-pole thermostat

Note: Unless otherwise stated on the accompanying illustrations, both WATROD and FIREBAR screw plugs are centered on the terminal enclosure. To order, add the suffix letter(s) to the screw plug heater's base part number. Also, specify class and group, if applicable.

CSA Certified Enclosures

CSA certified moisture and/or explosion-resistant terminal enclosures protect wiring in hazardous gas environments. These terminal enclosures, covered under CSA File number 61707, are available on all WATROD and FIREBAR screw plug immersion heaters. For additional information, contact a Watlow representative.

To order, specify **CSA certified enclosure**, **process temperature** (°F), **maximum working pressure** of application (psig), **media** being heated and heater mounting orientation (horizontal or vertical) and **screw plug size**.

ASME Pressure Vessel Code Welding

Screw plug assemblies can be provided with an ASME Section VIII, Div. I pressure vessel stamp upon request.

Pilot Light

The optional pilot light gives the operator visual indication of heater on or off power status.

The PL10 pilot light is configured to a maximum 250VAC and supplied with 6 in. (152 mm) leads.

The PL11 pilot light is rated for 480VAC and supplied with 4 in. (102 mm) leads.

Pilot lights may be attached to either single- or double-pole thermostats with general purpose enclosure only.

Thermostats

To provide process temperature control, Watlow offers optional single-pole, single-throw (SPST) and double-pole, single-throw (DPST) thermostats.

Unless otherwise specified, thermostats are mounted inside the terminal enclosure. Please verify that the thermostat's sensing bulb O.D. is compatible with the screw plug's thermowell I.D.

Thermocouples

Type J or K thermocouples offer extremely accurate sensing of process and/or sheath temperatures. A thermocouple may be inserted into the thermowell or attached to the heater's sheath.

Thermocouples are supplied with 120 in. (3048 mm) leads (longer lead lengths available). Unless otherwise specified, thermocouples are supplied with temperature ranges detailed on the *Thermocouple Types* chart.

Using a thermocouple requires an appropriate temperature and power controller, these must be purchased separately. Watlow offers a wide variety of temperature and power controllers to meet virtually all applications. Temperature controllers can be configured to accept process variable inputs, too. Contact a Watlow representative for details.

To order, specify **Type J** or **K** thermocouple and lead length. Indicate if the thermocouple is for **process temperature sensing** or heater sheath **high-limit protection**. Please specify if the screw plug will be mounted **vertical** or **horizontal** in the tank. If **vertical**, indicate if the housing is on top or bottom.

If the screw plug heater is mounted in an in-line circulation heating application, indicate flow direction relative to the heater's enclosure.

Options (Continued)

Thermocouple Types

ASTM Type	Conductor Positive	Characteristics Negative	Recommended Temperature Range °F °C
J	Iron (Magnetic)	Constantan (Non-Magnetic)	0 to 1000 (-20 to 540)
K	Chromel® (Non-magnetic)	Alumel® (Magnetic)	0 to 2000 (-20 to 1100)

Note: Type J and Type K thermocouples are rated 32 to 1382°F and 32 to 2282°F (0-750°C and 0-1250°C), respectively. Watlow does not recommend exceeding temperature ranges shown on this chart for the tubular product line.

Wattages and Voltages

Watlow routinely supplies screw plug immersion heaters with 120 to 480VAC as well as wattages from 250 watts to 38kW. If required, Watlow may configure heaters with voltages and wattages outside these parameters. For more information on special voltage and wattage configurations, contact a Watlow representative.

Sheath Materials

The following sheath materials are available on WATROD and FIREBAR heating elements:

Standard Sheath Materials

WATROD	Alloy 800/840 316 SS Steel
FIREBAR	Alloy 800

Extended Sheath Materials

WATROD	304 and 321 SS Alloy 400 and 600 Titanium Hastelloy C276
FIREBAR	304 SS Alloy 800

External Finishing

Passivation

During the manufacturing process, particles of iron or tool steel may become embedded in the stainless steel or alloy sheath. If not removed, these particles may corrode, produce rust spots and/or contaminate the process. For critical applications, passivation will remove free iron from the sheath. To order, specify **passivation**.

Other Finishes

Bright annealing available to meet cosmetic demands.

Screw Plug Materials

The following screw plug materials are available:

To order, specify **screw plug size and material**.

Standard Screw Plug Materials

WATROD	316 SS Steel Brass
FIREBAR	304 SS

Extended Screw Plug Materials

WATROD	304, 304H, 316H, 321 SS Titanium Alloy 400 and 600 Hastelloy C276 Alloy 800/840
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Screw Plug Sizes

Includes European

- **NPT** - 3/4, 1, 1 1/4, 2, 2 1/2 in.

To order, specify **size, style (NPT)** and material.

- **Gas (Gas Pipe Standard)** - G1 1/4, G1 1/2, G2 in. (brass only)
- **BSP (British Standard Pipe)** - 1 1/2, 2 in. (stainless steel only)

Contact a Watlow representative for sizes and materials not listed

Screw Plug to Flange Adapters

Screw plug to flange adapters permit replacing flange heaters with screw plug heaters. To order, specify the appropriate part number.

Screw Plug to Flange Adapter Sizes	Material	Estimated Shipping Weight lbs (kg)	Delivery	Part Number
1 1/4 to 3 in. -150#	Steel	13 (5.9)		125X3SA
2 1/2 to 3 in. -150#	Steel	11 (5.0)		250X3SA
2 1/2 to 4 in. -150#	Steel	16 (7.3)		250X4SA
2 1/2 to 5 in. -150#	Steel	25 (11.3)		250X5SA
2 1/2 to 6 in. -150#	Steel	33 (15.0)		250X6SA

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WATROD™ is a trademark of Watlow Electric Manufacturing Company.

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Alumel® and Chromel® are registered trademarks of Hoskins Manufacturing Company.

Powered by Possibility

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inquiry@watlow.com

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Japan +81 3 3518 6630
Korea +82 2 2169 2600

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Spain +34 91 675 1292
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Immersion Heaters

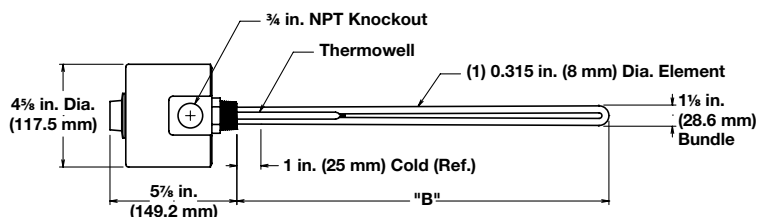


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Clean Water

- 1 inch NPT screw plug
- WATROD elements
- With thermostat (SPST), Type 2 or 3
- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 2 (30 to 250°F)			Type 3 (175 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
60 W/in² Brass Plug 1-Alloy 800 Element	120	0.50	1	4 1/2 (114.0)	3 (2)	BCN4J1S2	C/F	C/F	BCN4J1S3	C/F	C/F
	240	0.50	1	4 1/2 (114.0)	3 (2)	BCN4J10S2	C/F	C/F	BCN4J10S3	C/F	C/F
	120	0.75	1	6 1/2 (165.0)	3 (2)	BCN6J1S2	C/F	C/F	BCN6J1S3	C/F	C/F
	240	0.75	1	6 1/2 (165.0)	3 (2)	BCN6J10S2	C/F	C/F	BCN6J10S3	C/F	C/F
	120	1.00	1	6 5/8 (168.3)	3 (2)	BCN6L1S2	C/F	C/F	BCN6L1S3	C/F	C/F
	240	1.00	1	6 5/8 (168.3)	3 (2)	BCN6L10S2	C/F	C/F	BCN6L10S3	C/F	C/F
	120	1.25	1	8 (203.0)	4 (2)	BCN8A1S2	C/F	C/F	BCN8A1S3	C/F	C/F
	240	1.25	1	8 (203.0)	4 (2)	BCN8A10S2	C/F	C/F	BCN8A10S3	C/F	C/F
	120	1.50	1	10 5/8 (269.9)	4 (2)	BCN10L1S2	C/F	C/F	BCN10L1S3	C/F	C/F
	240	1.50	1	10 5/8 (269.9)	4 (2)	BCN10L10S2	C/F	C/F	BCN10L10S3	C/F	C/F
	120	2.00	1	12 1/2 (318.0)	5 (3)	BCN12J1S2	C/F	C/F	BCN12J1S3	C/F	C/F
	240	2.00	1	12 1/2 (318.0)	5 (3)	BCN12J10S2	C/F	C/F	BCN12J10S3	C/F	C/F
	120	2.50	1	14 3/4 (375.0)	5 (3)	BCN14N1S2	C/F	C/F	BCN14N1S3	C/F	C/F
	240	2.50	1	14 3/4 (375.0)	5 (3)	BCN14N10S2	C/F	C/F	BCN14N10S3	C/F	C/F
	120	3.00	1	16 3/4 (425.0)	6 (3)	BCN16N1S2	C/F	C/F	BCN16N1S3	C/F	C/F
	240	3.00	1	16 3/4 (425.0)	6 (3)	BCN16N10S2	C/F	C/F	BCN16N10S3	C/F	C/F
	240	4.00	1	21 (533.0)	6 (3)	BCN21A10S2	C/F	C/F	BCN21A10S3	C/F	C/F

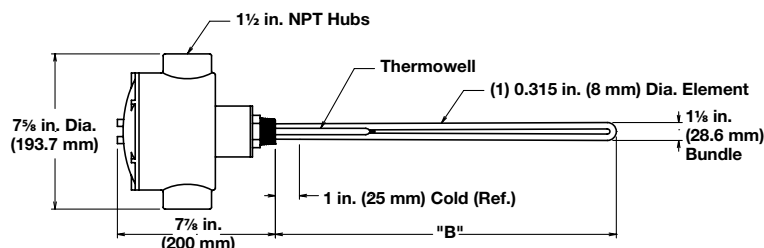
Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Clean Water

- 1 inch NPT screw plug
- WATROD elements
- With thermostat (SPST), Type 2 or 3
- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 2 (30 to 250°F)			Type 3 (175 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
60 W/in ² Brass Plug 1-Alloy 800 Element (9.3 W/cm ²)	120	0.50	1	4 1/2 (114.0)	3 (2)	BCN4J1C2	C/F	C/F	BCN4J1C3	C/F	C/F
	240	0.50	1	4 1/2 (114.0)	3 (2)	BCN4J10C2	C/F	C/F	BCN4J10C3	C/F	C/F
	120	0.75	1	6 1/2 (165.0)	3 (2)	BCN6J1C2	C/F	C/F	BCN6J1C3	C/F	C/F
	240	0.75	1	6 1/2 (165.0)	3 (2)	BCN6J10C2	C/F	C/F	BCN6J10C3	C/F	C/F
	120	1.00	1	6 5/8 (168.3)	3 (2)	BCN6L1C2	C/F	C/F	BCN6L1C3	C/F	C/F
	240	1.00	1	6 5/8 (168.3)	3 (2)	BCN6L10C2	C/F	C/F	BCN6L10C3	C/F	C/F
	120	1.25	1	8 (203.0)	4 (2)	BCN8A1C2	C/F	C/F	BCN8A1C3	C/F	C/F
	240	1.25	1	8 (203.0)	4 (2)	BCN8A10C2	C/F	C/F	BCN8A10C3	C/F	C/F
	120	1.50	1	10 5/8 (269.9)	4 (2)	BCN10L1C2	C/F	C/F	BCN10L1C3	C/F	C/F
	240	1.50	1	10 5/8 (269.9)	4 (2)	BCN10L10C2	C/F	C/F	BCN10L10C3	C/F	C/F
	120	2.00	1	12 1/2 (318.0)	5 (3)	BCN12J1C2	C/F	C/F	BCN12J1C3	C/F	C/F
	240	2.00	1	12 1/2 (318.0)	5 (3)	BCN12J10C2	C/F	C/F	BCN12J10C3	C/F	C/F
	120	2.50	1	14 3/4 (375.0)	5 (3)	BCN14N1C2	C/F	C/F	BCN14N1C3	C/F	C/F
	240	2.50	1	14 3/4 (375.0)	5 (3)	BCN14N10C2	C/F	C/F	BCN14N10C3	C/F	C/F
	120	3.00	1	16 3/4 (425.0)	6 (3)	BCN16N1C2	C/F	C/F	BCN16N1C3	C/F	C/F
	240	3.00	1	16 3/4 (425.0)	6 (3)	BCN16N10C2	C/F	C/F	BCN16N10C3	C/F	C/F
	240	4.00	1	21 (533.0)	6 (3)	BCN21A10C2	C/F	C/F	BCN21A10C3	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

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⑤ No third party recognition

Immersion Heaters



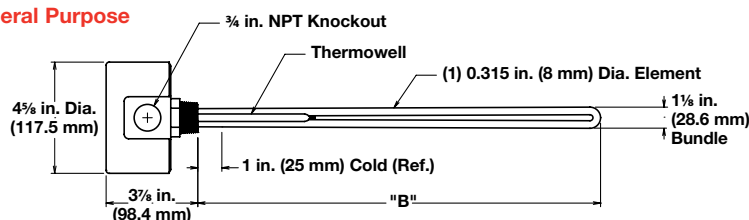
WATROD and FIREBAR Screw Plug Immersion Heaters



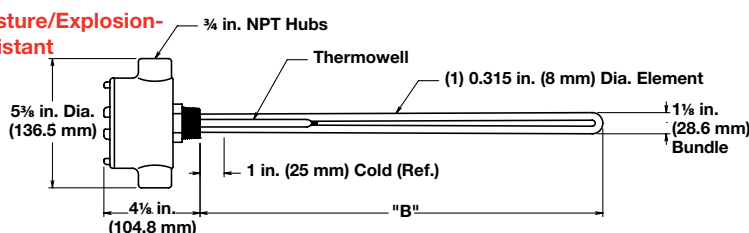
Application: Clean Water

- 1 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. w(mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
60 W/in² Brass Plug 1-Alloy 800 Element (9.3 W/cm²)	120	0.50	1	4 1/2 (114.0)	BCN4J1S	3 (2)	C1-15	C1-12	BCN4J1C	6 (3)	C/F	C/F
	240	0.50	1	4 1/2 (114.0)	BCN4J10S	3 (2)	C1-17	C1-13	BCN4J10C	6 (3)	C/F	C/F
	120	0.75	1	6 1/2 (165.0)	BCN6J1S	3 (2)	C1-15	C1-12	BCN6J1C	6 (3)	C/F	C/F
	240	0.75	1	6 1/2 (165.0)	BCN6J10S	3 (2)	C1-17	C1-13	BCN6J10C	6 (3)	C/F	C/F
	120	1.00	1	6 5/8 (168.3)	BCN6L1S	3 (2)	C1-15	C1-12	BCN6L1C	6 (3)	C/F	C/F
	240	1.00	1	6 5/8 (168.3)	BCN6L10S	3 (2)	C1-17	C1-13	BCN6L10C	6 (3)	C/F	C/F
	120	1.25	1	8 (203.0)	BCN8A1S	4 (2)	C1-15	C1-12	BCN8A1C	7 (4)	C/F	C/F
	240	1.25	1	8 (203.0)	BCN8A10S	4 (2)	C1-17	C1-13	BCN8A10C	7 (4)	C/F	C/F
	120	1.50	1	10 5/8 (269.9)	BCN10L1S	4 (2)	C1-15	C1-12	BCN10L1C	7 (4)	C/F	C/F
	240	1.50	1	10 5/8 (269.9)	BCN10L10S	4 (2)	C1-17	C1-13	BCN10L10C	7 (4)	C/F	C/F
	120	2.00	1	12 1/2 (318.0)	BCN12J1S	5 (3)	C1-15	C1-12	BCN12J1C	8 (4)	C/F	C/F
	240	2.00	1	12 1/2 (318.0)	BCN12J10S	5 (3)	C1-17	C1-13	BCN12J10C	8 (4)	C/F	C/F
	120	2.50	1	14 3/4 (375.0)	BCN14N1S	5 (3)	C/F	C/F	BCN14N1C	8 (4)	C/F	C/F
	240	2.50	1	14 3/4 (375.0)	BCN14N10S	5 (3)	C1-17	C1-13	BCN14N10C	8 (4)	C/F	C/F
	120	3.00	1	16 3/4 (425.0)	BCN16N1S	6 (3)	C/F	C/F	BCN16N1C	9 (4)	C/F	C/F
	240	3.00	1	16 3/4 (425.0)	BCN16N10S	6 (3)	C1-17	C1-13	BCN16N10C	9 (4)	C/F	C/F
	240	4.00	1	21 (533.0)	BCN21A10S	6 (3)	C1-17	C1-13	BCN21A10C	9 (4)	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

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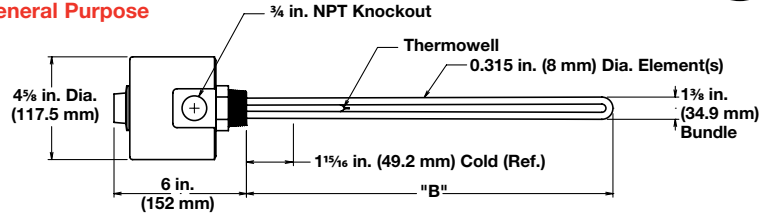
WATROD and FIREBAR Screw Plug Immersion Heaters



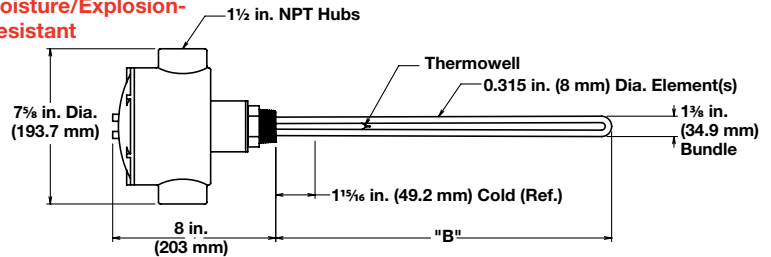
Application: Clean Water

- 1 1/4 inch NPT screw plug
- WATROD elements
- With thermostat (SPST), Type 2 or 3
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 2 (30 to 250°F)			Type 3 (175 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
60 W/in ² Brass Plug 1-Alloy 800 Element (9.3 W/cm ²)	120	0.50	1	4 ³ / ₈ (111.1)	3 (2)	BDN4G1S2	C/F	C/F	BDN4G1S3	C/F	C/F
	240	0.50	1	4 ³ / ₈ (111.1)	3 (2)	BDN4G10S2	C/F	C/F	BDN4G10S3	C/F	C/F
	120	0.75	1	6 ³ / ₈ (161.9)	3 (2)	BDN6G1S2	C/F	C/F	BDN6G1S3	C/F	C/F
	240	0.75	1	6 ³ / ₈ (161.9)	3 (2)	BDN6G10S2	C/F	C/F	BDN6G10S3	C/F	C/F
60 W/in ² ④ Brass Plug 2-Alloy 800 Elements (9.3 W/cm ²)	120/240	1.00	1	4 ³ / ₈ (111.1)	4 (2)	BEN4G6S2	C/F	C/F	BEN4G6S3	C/F	C/F
	120/240	1.50	1	6 ³ / ₈ (161.9)	4 (2)	BEN6G6S2	C/F	C/F	BEN6G6S3	C/F	C/F
	120/240	2.00	1	8 ¹ / ₂ (216.0)	5 (3)	BEN8J6S2	C/F	C/F	BEN8J6S3	C/F	C/F
	120/240	2.50	1	10 ³ / ₄ (273.0)	5 (3)	BEN10N6S2	C/F	C/F	BEN10N6S3	C/F	C/F
	120/240	3.00	1	15 (381.0)	6 (3)	BEN15A6S2	C/F	C/F	BEN15A6S3	C/F	C/F
	240	4.00	1	19 (483.0)	7 (4)	BEN19A10S2	C/F	C/F	BEN19A10S3	C/F	C/F
	240	5.00	1	23 ¹ / ₂ (597.0)	8 (4)	BEN23J10S2	C/F	C/F	BEN23J10S3	C/F	C/F
	240	6.00	1	27 ¹ / ₂ (699.0)	9 (4)	BEN27J10S2	C/F	C/F	BEN27J10S3	C/F	C/F
						Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
60 W/in ² Brass Plug 1-Alloy 800 Element (9.3 W/cm ²)	120	0.50	1	4 ³ / ₈ (111.1)	7 (4)	BDN4G1C2	C/F	C/F	BDN4G1C3	C/F	C/F
	240	0.50	1	4 ³ / ₈ (111.1)	7 (4)	BDN4G10C2	C/F	C/F	BDN4G10C3	C/F	C/F
	120	0.75	1	6 ³ / ₈ (161.9)	7 (4)	BDN6G1C2	C/F	C/F	BDN6G1C3	C/F	C/F
	240	0.75	1	6 ³ / ₈ (161.9)	7 (4)	BDN6G10C2	C/F	C/F	BDN6G10C3	C/F	C/F
60 W/in ² ④ Brass Plug 2-Alloy 800 Elements (9.3 W/cm ²)	120/240	1.00	1	4 ³ / ₈ (111.1)	8 (4)	BEN4G6C2	C/F	C/F	BEN4G6C3	C/F	C/F
	120/240	1.50	1	6 ³ / ₈ (161.9)	8 (4)	BEN6G6C2	C/F	C/F	BEN6G6C3	C/F	C/F
	120/240	2.00	1	8 ¹ / ₂ (216.0)	9 (4)	BEN8J6C2	C/F	C/F	BEN8J6C3	C/F	C/F
	120/240	2.50	1	10 ³ / ₄ (273.0)	9 (4)	BEN10N6C2	C/F	C/F	BEN10N6C3	C/F	C/F
	120/240	3.00	1	15 (381.0)	10 (5)	BEN15A6C2	C/F	C/F	BEN15A6C3	C/F	C/F
	240	4.00	1	19 (483.0)	11 (5)	BEN19A10C2	C/F	C/F	BEN19A10C3	C/F	C/F
	240	5.00	1	23 ¹ / ₂ (597.0)	12 (6)	BEN23J10C2	C/F	C/F	BEN23J10C3	C/F	C/F
	240	6.00	1	27 ¹ / ₂ (699.0)	13 (6)	BEN27J10C2	C/F	C/F	BEN27J10C3	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



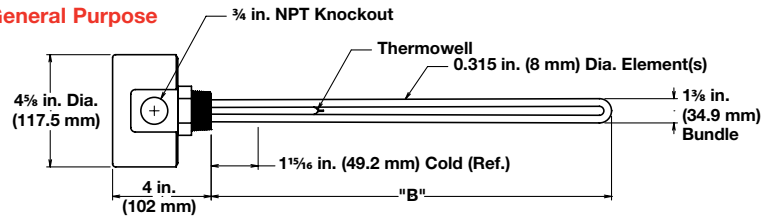
WATROD and FIREBAR Screw Plug Immersion Heaters



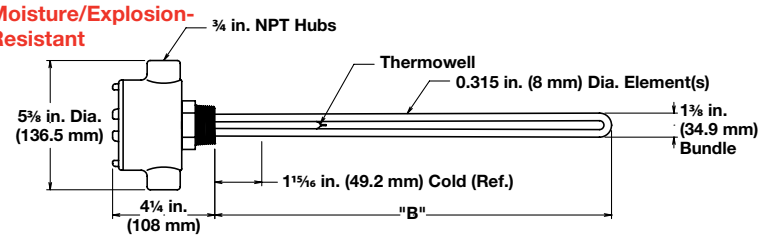
Application: Clean Water

- 1 1/4 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT		240V WATCONNECT		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT	
					General Purpose Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
60 W/in² Brass Plug 1-Alloy 800 Element (9.3 W/cm²)	120	0.50	1	4 ³ / ₈ (111.1)	BDN4G1S	3 (2)	C1-15	C1-12	N/A	N/A	BDN4G1C	6 (3)	C/F	C/F
	240	0.50	1	4 ³ / ₈ (111.1)	BDN4G10S	3 (2)	N/A	N/A	C1-17	C1-13	BDN4G10C	6 (3)	C/F	C/F
	120	0.75	1	6 ³ / ₈ (161.9)	BDN6G1S	3 (2)	C1-15	C1-12	N/A	N/A	BDN6G1C	6 (3)	C/F	C/F
	240	0.75	1	6 ³ / ₈ (161.9)	BDN6G10S	3 (2)	N/A	N/A	C1-17	C1-13	BDN6G10C	6 (3)	C/F	C/F
60 W/in² ④ Brass Plug 2-Alloy 800 Elements (9.3 W/cm²)	120/ 240	1.00	1	4 ³ / ₈ (111.1)	BEN4G6S	4 (2)	C1-15	C1-12	C1-17	C1-13	BEN4G6C	7 (4)	C/F	C/F
	120/ 240	1.50	1	6 ³ / ₈ (161.9)	BEN6G6S	4 (2)	C1-15	C1-12	C1-17	C1-13	BEN6G6C	7 (4)	C/F	C/F
	120/ 240	2.00	1	8 ¹ / ₂ (216.0)	BEN8J6S	5 (3)	C1-15	C1-12	C1-17	C1-13	BEN8J6C	8 (4)	C/F	C/F
	120/ 240	2.50	1	10 ³ / ₄ (273.0)	BEN10N6S	5 (3)	C/F	C/F	C1-17	C1-13	BEN10N6C	8 (4)	C/F	C/F
	120/ 240	3.00	1	15 (381.0)	BEN15A6S	6 (3)	C/F	C/F	C1-17	C1-13	BEN15A6C	9 (4)	C/F	C/F
	240	4.00	1	19 (483.0)	BEN19A10S	7 (4)	N/A	N/A	C1-17	C1-13	BEN19A10C	10 (5)	C/F	C/F
	240	5.00	1	23 ¹ / ₂ (597.0)	BEN23J10S	8 (4)	N/A	N/A	C/F	C/F	BEN23J10C	11 (5)	C/F	C/F
	240	6.00	1	27 ¹ / ₂ (699.0)	BEN27J10S	9 (4)	N/A	N/A	C/F	C/F	BEN27J10C	12 (6)	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

④ Wired for higher voltage

⑤ No third party recognition

Immersion Heaters

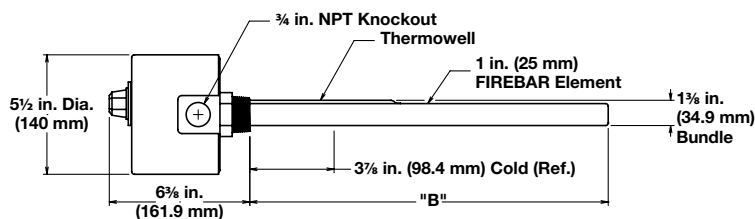


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Clean Water

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- With thermostat (DPST), Type 5A or 7A
- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
90 W/in ² ⑧ 304 SS Plug 1-Alloy 800 Element (14 W/cm ²)	240	1.5	1	7 ⁵ / ₈ (193.7)	6 (3)	BDNF7R10S5A	C/F	C/F	BDNF7R10S7A	C/F	C/F
	480	1.5	1	7 ⁵ / ₈ (193.7)	6 (3)	BDNF7R11S5A	C/F	C/F	BDNF7R11S7A	C/F	C/F
	240	3.0	1	11 ¹ / ₈ (282.6)	7 (4)	BDNF11G10S5A	C/F	C/F	BDNF11G10S7A	C/F	C/F
	480	3.0	1	11 ¹ / ₈ (282.6)	7 (4)	BDNF11G11S5A	C/F	C/F	BDNF11G11S7A	C/F	C/F
	240	5.0	3	16 ¹ / ₈ (409.6)	8 (4)	BDNF16G3S5A	C/F	C/F	BDNF16G3S7A	C/F	C/F
	480	5.0	3	16 ¹ / ₈ (409.6)	8 (4)	BDNF16G5S5A	C/F	C/F	BDNF16G5S7A	C/F	C/F
	240	6.5	3	19 ¹ / ₈ (485.8)	9 (4)	BDNF19G3S5A	C/F	C/F	BDNF19G3S7A	C/F	C/F
	480	6.5	3	19 ¹ / ₈ (485.8)	9 (4)	BDNF19G5S5A	C/F	C/F	BDNF19G5S7A	C/F	C/F
	240	8.5	3	24 ³ / ₈ (619.1)	10 (5)	BDNF24L3S5A	C/F	C/F	BDNF24L3S7A	C/F	C/F
	480	8.5	3	24 ³ / ₈ (619.1)	10 (5)	BDNF24L5S5A	C/F	C/F	BDNF24L5S7A	C/F	C/F
	240	10.5	3	29 ⁵ / ₈ (752.5)	11 (5)	BDNF29R3S5A	C/F	C/F	BDNF29R3S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

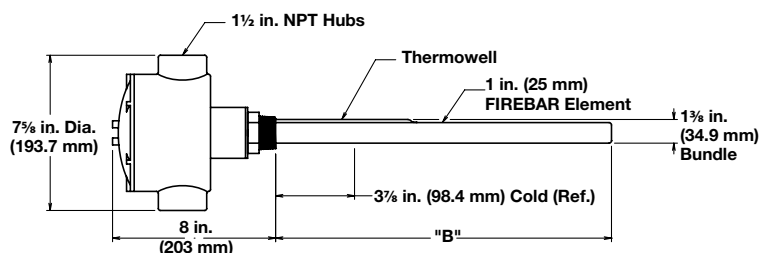
⑧ Can be wired for 1-phase operation



WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Clean Water

- 1 1/4 inch NPT screw plug
 - FIREBAR elements
 - With thermostat (DPST), Type 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
90 W/in² ⑧ 304 SS Plug 1-Alloy 800 Element (14 W/cm²)	240	1.5	1	7 5/8 (193.7)	9 (4)	BDNF7R10C5A	C/F	C/F	BDNF7R10C7A	C/F	C/F
	480	1.5	1	7 5/8 (193.7)	9 (4)	BDNF7R11C5A	C/F	C/F	BDNF7R11C7A	C/F	C/F
	240	3.0	1	11 1/8 (282.6)	10 (5)	BDNF11G10C5A	C/F	C/F	BDNF11G10C7A	C/F	C/F
	480	3.0	1	11 1/8 (282.6)	10 (5)	BDNF11G11C5A	C/F	C/F	BDNF11G11C7A	C/F	C/F
	240	5.0	3	16 1/8 (409.6)	11 (5)	BDNF16G3C5A	C/F	C/F	BDNF16G3C7A	C/F	C/F
	480	5.0	3	16 1/8 (409.6)	11 (5)	BDNF16G5C5A	C/F	C/F	BDNF16G5C7A	C/F	C/F
	240	6.5	3	19 1/8 (485.8)	12 (6)	BDNF19G3C5A	C/F	C/F	BDNF19G3C7A	C/F	C/F
	480	6.5	3	19 1/8 (485.8)	12 (6)	BDNF19G5C5A	C/F	C/F	BDNF19G5C7A	C/F	C/F
	240	8.5	3	24 3/8 (619.1)	13 (6)	BDNF24L3C5A	C/F	C/F	BDNF24L3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters

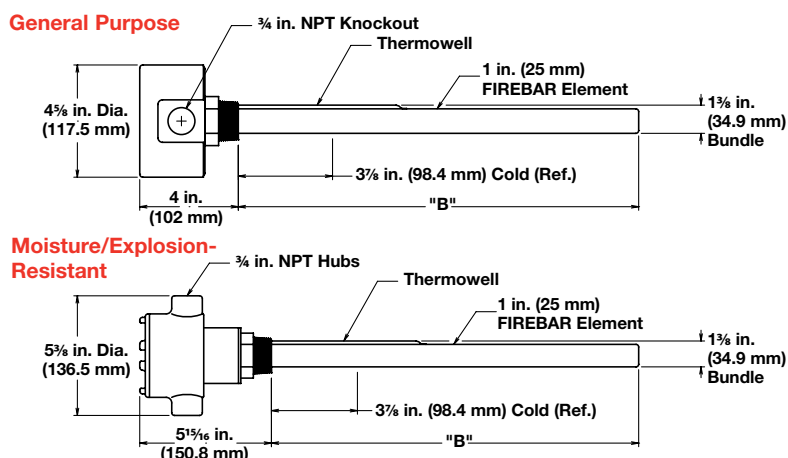


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Clean Water

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
90 W/in ² ⑧ 304 SS Plug 1-Alloy 800 Element (9.3 W/cm ²)	240	1.5	1	7 5/8 (193.7)	BDNF7R10S	5 (3)	C1-17	C1-13	BDNF7R10C	8 (4)	C/F	C/F
	480	1.5	1	7 5/8 (193.7)	BDNF7R11S	5 (3)	C/F	C/F	BDNF7R11C	8 (4)	C/F	C/F
	240	3.0	1	11 1/8 (282.6)	BDNF11G10S	6 (3)	C1-17	C1-13	BDNF11G10C	9 (4)	C/F	C/F
	480	3.0	1	11 1/8 (282.6)	BDNF11G11S	6 (3)	C/F	C/F	BDNF11G11C	9 (4)	C/F	C/F
	240	5.0	3	16 1/8 (409.6)	BDNF16G3S	7 (4)	C2-50	C2-92	BDNF16G3C	10 (5)	C3-94	C3-93
	480	5.0	3	16 1/8 (409.6)	BDNF16G5S	7 (4)	C2-43	C2-35	BDNF16G5C	10 (5)	C3-116	C3-118
	240	6.5	3	19 1/8 (485.8)	BDNF19G3S	8 (4)	C2-50	C2-92	BDNF19G3C	11 (5)	C3-94	C3-93
	480	6.5	3	19 1/8 (485.8)	BDNF19G5S	8 (4)	C2-43	C2-35	BDNF19G5C	11 (5)	C3-116	C3-118
	240	8.5	3	24 3/8 (619.1)	BDNF24L3S	9 (4)	C2-50	C2-92	BDNF24L3C	12 (6)	C3-94	C3-93
	480	8.5	3	24 3/8 (619.1)	BDNF24L5S	9 (4)	C2-43	C2-35	BDNF24L5C	12 (6)	C3-116	C3-118
	240	10.5	3	29 5/8 (752.5)	BDNF29R3S	10 (5)	C2-236	C2-214	BDNF29R3C	13 (6)	C3-114	C3-115
	480	10.5	3	29 5/8 (752.5)	BDNF29R5S	10 (5)	C2-43	C2-35	BDNF29R5C	13 (6)	C3-116	C3-118
	240	12.7	3	34 5/8 (879.5)	BDNF34R3S	11 (5)	C2-236	C2-214	BDNF34R3C	14 (7)	C3-114	C3-115
	480	12.7	3	34 5/8 (879.5)	BDNF34R5S	11 (5)	C2-43	C2-35	BDNF34R5C	14 (7)	C3-116	C3-118
	240	17.0	3	45 1/8 (1146.2)	BDNF45G3S	13 (6)	C2-236	C2-214	BDNF45G3C	16 (8)	C3-114	C3-115
	480	17.0	3	45 1/8 (1146.2)	BDNF45G5S	13 (6)	C2-43	C2-35	BDNF45G5C	16 (8)	C3-116	C3-118
	480	21.5	3	55 5/8 (1412.9)	BDNF55R5S	15 (7)	C2-225	C2-226	BDNF55R5C	18 (9)	C3-117	C3-119

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

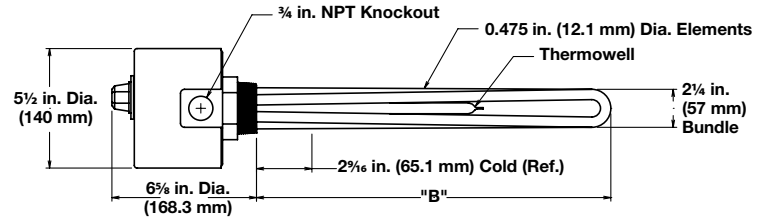


Application: Clean Water

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure



						Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
60 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (9.3 W/cm²)	120/ 240	2.0	1	8 1/8 (206.4)	5 (3)	BGN78C6S4	C/F	C/F	BGN78C6S5A	C/F	C/F	BGN78C6S7A	C/F	C/F
	240/ 480	2.0	1	8 1/8 (206.4)	5 (3)	BGN78C7S4	C/F	C/F	BGN78C7S5A	C/F	C/F	BGN78C7S7A	C/F	C/F
	120/ 240	3.0	1	11 1/8 (282.6)	6 (3)	BGN711C6S4	C/F	C/F	BGN711C6S5A	C/F	C/F	BGN711C6S7A	C/F	C/F
	240/ 480	3.0	1	11 1/8 (282.6)	6 (3)	BGN711C7S4	C/F	C/F	BGN711C7S5A	C/F	C/F	BGN711C7S7A	C/F	C/F
	120/ 240	4.0	1	15 1/8 (384.2)	7 (4)	BGN715C6S4	C/F	C/F	BGN715C6S5A	C/F	C/F	BGN715C6S7A	C/F	C/F
	120/ 240	5.0	1	18 1/8 (460.4)	7 (4)	BGN718C6S4	C/F	C/F	BGN718C6S5A	C/F	C/F	BGN718C6S7A	C/F	C/F
60 W/in² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm²)	240	3.0	3	8 1/8 (206.4)	6 (3)	BHN78C3S4	C/F	C/F	BHN78C3S5A	C/F	C/F	BHN78C3S7A	C/F	C/F
	480	3.0	3	8 1/8 (206.4)	6 (3)	BHN68C13S4	C/F	C/F	BHN68C13S5A	C/F	C/F	BHN68C13S7A	C/F	C/F
	240	4.5	3	11 1/8 (282.6)	7 (4)	BHN711C3S4	C/F	C/F	BHN711C3S5A	C/F	C/F	BHN711C3S7A	C/F	C/F
	480	4.5	3	11 1/8 (282.6)	7 (4)	BHN611C13S4	C/F	C/F	BHN611C13S5A	C/F	C/F	BHN611C13S7A	C/F	C/F
	240	6.0	3	15 1/8 (384.2)	8 (4)	BHN715C3S4	C/F	C/F	BHN715C3S5A	C/F	C/F	BHN715C3S7A	C/F	C/F
	480	6.0	3	15 1/8 (384.2)	8 (4)	BHN715C5S4	C/F	C/F	BHN715C5S5A	C/F	C/F	BHN715C5S7A	C/F	C/F
	240	7.5	3	18 1/8 (460.4)	8 (4)	BHN718C3S4	C/F	C/F	BHN718C3S5A	C/F	C/F	BHN718C3S7A	C/F	C/F
	240	9.0	3	21 1/8 (536.6)	9 (4)	BHN721C3S4	C/F	C/F	BHN721C3S5A	C/F	C/F	BHN721C3S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

④ Wired for higher voltage

Immersion Heaters



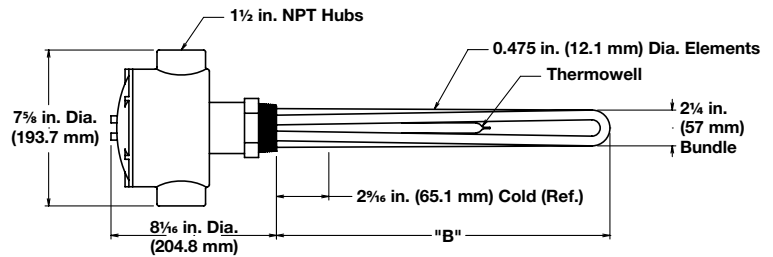
WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Clean Water

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
							Type J T/C	Type K T/C		Type J T/C	Type K T/C		Type J T/C	Type K T/C
60 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (9.3 W/cm²)	120/240	2.0	1	8 1/8 (206.4)	8 (4)	BGN78C6C4	C/F	C/F	BGN78C6C5A	C/F	C/F	BGN78C6C7A	C/F	C/F
	240/480	2.0	1	8 1/8 (206.4)	8 (4)	BGN78C7C4	C/F	C/F	BGN78C7C5A	C/F	C/F	BGN78C7C7A	C/F	C/F
	120/240	3.0	1	11 1/8 (282.6)	9 (4)	BGN711C6C4	C/F	C/F	BGN711C6C5A	C/F	C/F	BGN711C6C7A	C/F	C/F
	240/480	3.0	1	11 1/8 (282.6)	9 (4)	BGN711C7C4	C/F	C/F	BGN711C7C5A	C/F	C/F	BGN711C7C7A	C/F	C/F
	120/240	4.0	1	15 1/8 (384.2)	10 (5)	BGN715C6C4	C/F	C/F	BGN715C6C5A	C/F	C/F	BGN715C6C7A	C/F	C/F
	120/240	5.0	1	18 1/8 (460.4)	10 (5)	BGN718C6C4	C/F	C/F	BGN718C6C5A	C/F	C/F	BGN718C6C7A	C/F	C/F
60 W/in² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm²)	240	3.0	3	8 1/8 (206.4)	9 (4)	BHN78C3C4	C/F	C/F	BHN78C3C5A	C/F	C/F	BHN78C3C7A	C/F	C/F
	480	3.0	3	8 1/8 (206.4)	9 (4)	BHN68C13C4	C/F	C/F	BHN68C13C5A	C/F	C/F	BHN68C13C7A	C/F	C/F
	240	4.5	3	11 1/8 (282.6)	10 (5)	BHN711C3C4	C/F	C/F	BHN711C3C5A	C/F	C/F	BHN711C3C7A	C/F	C/F
	480	4.5	3	11 1/8 (282.6)	10 (5)	BHN611C13C4	C/F	C/F	BHN611C13C5A	C/F	C/F	BHN611C13C7A	C/F	C/F
	240	6.0	3	15 1/8 (384.2)	11 (5)	BHN715C3C4	C/F	C/F	BHN715C3C5A	C/F	C/F	BHN715C3C7A	C/F	C/F
	480	6.0	3	15 1/8 (384.2)	11 (5)	BHN715C5C4	C/F	C/F	BHN715C5C5A	C/F	C/F	BHN715C5C7A	C/F	C/F
	240	7.5	3	18 1/8 (460.4)	11 (5)	BHN718C3C4	C/F	C/F	BHN718C3C5A	C/F	C/F	BHN718C3C7A	C/F	C/F
	240	9.0	3	21 1/8 (536.6)	12 (6)	BHN721C3C4	C/F	C/F	BHN721C3C5A	C/F	C/F	BHN721C3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



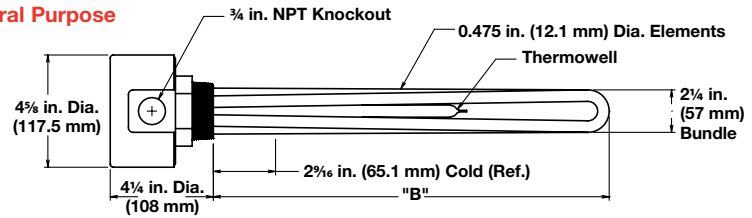
WATROD and FIREBAR Screw Plug Immersion Heaters



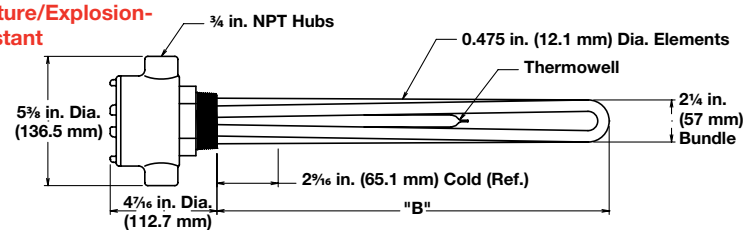
Application: Clean Water

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number		240V WATCONNECT Part Number		480V WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Type J T/C	Type K T/C
60 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (9.3 W/cm²)	120/240	2.0	1	8 1/8 (206.4)	BGN78C6S	4 (2)	C1-15	C1-12	C1-17	C1-13	N/A	N/A
	240/480	2.0	1	8 1/8 (206.4)	BGN78C7S	4 (2)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	3.0	1	11 1/8 (282.6)	BGN711C6S	5 (3)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	3.0	1	11 1/8 (282.6)	BGN711C7S	5 (3)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	4.0	1	15 1/8 (384.2)	BGN715C6S	6 (3)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	4.0	1	15 1/8 (384.2)	BGN715C7S	6 (3)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	5.0	1	18 1/8 (460.4)	BGN718C6S	6 (3)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	5.0	1	18 1/8 (460.4)	BGN718C7S	6 (3)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	6.0	1	21 1/8 (536.6)	BGN721C7S	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	8.0	1	26 5/8 (676.3)	BGN726L7S	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	10.0	1	32 1/8 (816.0)	BGN732C7S	8 (4)	N/A	N/A	C/F	C/F	C/F	C/F
60 W/in² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm²)	120	3.0	1	8 1/8 (206.4)	BHN78C1S	5 (3)	C/F	C/F	N/A	N/A	N/A	N/A
	240	3.0	3	8 1/8 (206.4)	BHN78C3S	5 (3)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	3.0	3	8 1/8 (206.4)	BHN68C13S	5 (3)	N/A	N/A	N/A	N/A	C2-43	C2-35
	120	4.5	1	11 1/8 (282.6)	BHN711C1S	6 (3)	C/F	C/F	N/A	N/A	N/A	N/A
	240	4.5	3	11 1/8 (282.6)	BHN711C3S	6 (3)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	4.5	3	11 1/8 (282.6)	BHN611C13S	6 (3)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	6.0	3	15 1/8 (384.2)	BHN715C3S	7 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	6.0	3	15 1/8 (384.2)	BHN715C5S	7 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	7.5	3	18 1/8 (460.4)	BHN718C3S	7 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	7.5	3	18 1/8 (460.4)	BHN718C5S	7 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	9.0	3	21 1/8 (536.6)	BHN721C3S	8 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	9.0	3	21 1/8 (536.6)	BHN721C5S	8 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	12.0	3	26 5/8 (676.3)	BHN726L3S	8 (4)	N/A	N/A	C2-236	C2-214	N/A	N/A
	480	12.0	3	26 5/8 (676.3)	BHN726L5S	8 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	15.0	3	32 1/8 (816.0)	BHN732C3S	9 (4)	N/A	N/A	C2-236	C2-214	N/A	N/A
	480	15.0	3	32 1/8 (816.0)	BHN732C5S	9 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

④ Wired for higher voltage

⑤ No third party recognition

Immersion Heaters



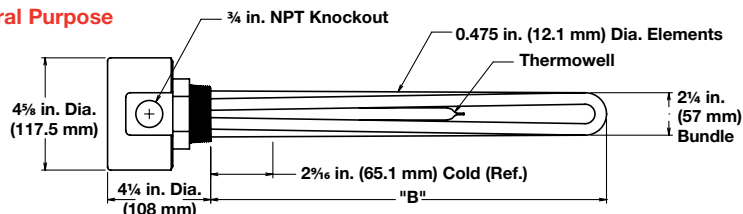
WATROD and FIREBAR Screw Plug Immersion Heaters



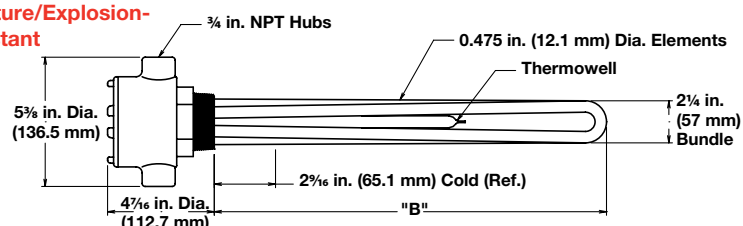
Application: Clean Water

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number		240V WATCONNECT Part Number		480V WATCONNECT Part Number	
					Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Type J T/C	Type K T/C
60 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (9.3 W/cm²)	120/240	2.0	1	8 1/8 (206.4)	BGN78C6C	7 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	2.0	1	8 1/8 (206.4)	BGN78C7C	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	3.0	1	11 1/8 (282.6)	BGN711C6C	8 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	3.0	1	11 1/8 (282.6)	BGN711C7C	8 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	4.0	1	15 1/8 (384.2)	BGN715C6C	9 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	4.0	1	15 1/8 (384.2)	BGN715C7C	9 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	5.0	1	18 1/8 (460.4)	BGN718C6C	9 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	5.0	1	18 1/8 (460.4)	BGN718C7C	9 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	6.0	1	21 1/8 (536.6)	BGN721C7C	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	8.0	1	26 5/8 (676.3)	BGN726L7C	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	10.0	1	32 1/8 (816.0)	BGN732C7C	11 (5)	N/A	N/A	C/F	C/F	C/F	C/F
60 W/in² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm²)	120	3.0	1	8 1/8 (206.4)	BHN78C1C	8 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	3.0	3	8 1/8 (206.4)	BHN78C3C	8 (4)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	3.0	3	8 1/8 (206.4)	BHN68C13C	8 (4)	N/A	N/A	N/A	N/A	C3-116	C3-118
	120	4.5	1	11 1/8 (282.6)	BHN711C1C	9 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	4.5	3	11 1/8 (282.6)	BHN711C3C	9 (4)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	4.5	3	11 1/8 (282.6)	BHN611C13C	9 (4)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	6.0	3	15 1/8 (384.2)	BHN715C3C	10 (5)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	6.0	3	15 1/8 (384.2)	BHN715C5C	10 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	7.5	3	18 1/8 (460.4)	BHN718C3C	10 (5)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	7.5	3	18 1/8 (460.4)	BHN718C5C	10 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	9.0	3	21 1/8 (536.6)	BHN721C3C	11 (5)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	9.0	3	21 1/8 (536.6)	BHN721C5C	11 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	12.0	3	26 5/8 (676.3)	BHN726L3C	11 (5)	N/A	N/A	C3-114	C3-115	N/A	N/A
	480	12.0	3	26 5/8 (676.3)	BHN726L5C	11 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	15.0	3	32 1/8 (816.0)	BHN732C3C	12 (6)	N/A	N/A	C3-114	C3-115	N/A	N/A
	480	15.0	3	32 1/8 (816.0)	BHN732C5C	12 (6)	N/A	N/A	N/A	N/A	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

- ④ Wired for higher voltage
⑤ No third party recognition

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters



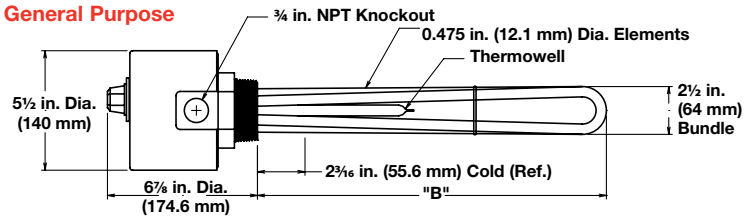
Application: Clean Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

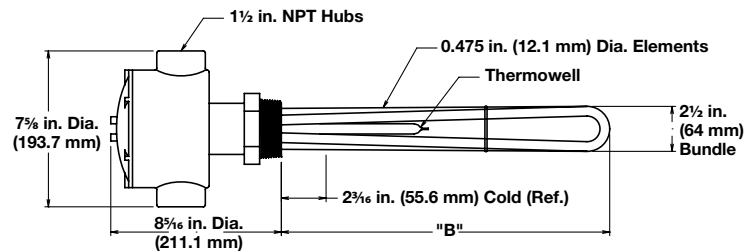
Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
60 W/in ² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm ²)	240	3.0	3	7 ⁵ / ₈ (193.7)	7 (4)	BLN77L3S4	C/F	C/F	BLN77L3S5A	C/F	C/F	BLN77L3S7A	C/F	C/F
	480	3.0	3	7 ⁵ / ₈ (193.7)	7 (4)	BLN77L13S4	C/F	C/F	BLN77L13S5A	C/F	C/F	BLN77L13S7A	C/F	C/F
	240	4.5	3	10 ⁵ / ₈ (269.9)	8 (4)	BLN710L3S4	C/F	C/F	BLN710L3S5A	C/F	C/F	BLN710L3S7A	C/F	C/F
	480	4.5	3	10 ⁵ / ₈ (269.9)	8 (4)	BLN610K13S4	C/F	C/F	BLN610K13S5A	C/F	C/F	BLN610K13S7A	C/F	C/F
	240	6.0	3	14 ⁵ / ₈ (371.5)	10 (5)	BLN714L3S4	C/F	C/F	BLN714L3S5A	C/F	C/F	BLN714L3S7A	C/F	C/F
	480	6.0	3	14 ⁵ / ₈ (371.5)	10 (5)	BLN714L5S4	C/F	C/F	BLN714L5S5A	C/F	C/F	BLN714L5S7A	C/F	C/F
	240	7.5	3	17 ⁵ / ₈ (447.7)	10 (5)	BLN717L3S4	C/F	C/F	BLN717L3S5A	C/F	C/F	BLN717L3S7A	C/F	C/F
	240	9.0	3	20 ⁵ / ₈ (523.9)	12 (6)	BLN720L3S4	C/F	C/F	BLN720L3S5A	C/F	C/F	BLN720L3S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
60 W/in ² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm ²)	240	3.0	3	7 ⁵ / ₈ (193.7)	10 (5)	BLN77L3C4	C/F	C/F	BLN77L3C5A	C/F	C/F	BLN77L3C7A	C/F	C/F
	480	3.0	3	7 ⁵ / ₈ (193.7)	10 (5)	BLN77L13C4	C/F	C/F	BLN77L13C5A	C/F	C/F	BLN77L13C7A	C/F	C/F
	240	4.5	3	10 ⁵ / ₈ (269.9)	11 (5)	BLN710L3C4	C/F	C/F	BLN710L3C5A	C/F	C/F	BLN710L3C7A	C/F	C/F
	480	4.5	3	10 ⁵ / ₈ (269.9)	11 (5)	BLN610K13C4	C/F	C/F	BLN610K13C5A	C/F	C/F	BLN610K13C7A	C/F	C/F
	240	6.0	3	14 ⁵ / ₈ (371.5)	13 (6)	BLN714L3C4	C/F	C/F	BLN714L3C5A	C/F	C/F	BLN714L3C7A	C/F	C/F
	480	6.0	3	14 ⁵ / ₈ (371.5)	13 (6)	BLN714L5C4	C/F	C/F	BLN714L5C5A	C/F	C/F	BLN714L5C7A	C/F	C/F
	240	7.5	3	17 ⁵ / ₈ (447.7)	13 (6)	BLN717L3C4	C/F	C/F	BLN717L3C5A	C/F	C/F	BLN717L3C7A	C/F	C/F
	240	9.0	3	20 ⁵ / ₈ (523.9)	15 (7)	BLN720L3C4	C/F	C/F	BLN720L3C5A	C/F	C/F	BLN720L3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters

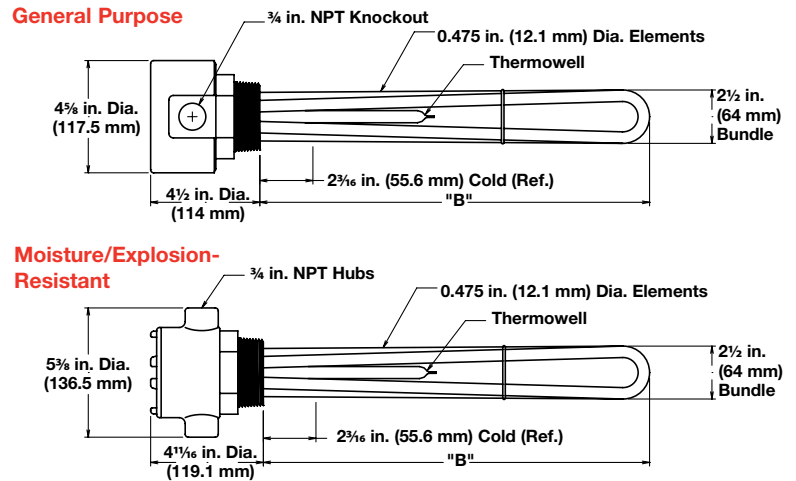


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Clean Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
60 W/in² 304 SS Plug 3-Alloy 800 Elements (9.3 W/cm²)	120	3.0	1	7 ⁵ / ₈ (193.7)	BLN77L1S	6 (3)	C/F	C/F	BLN77L1C	9 (4)	C/F	C/F
	240	3.0	3	7 ⁵ / ₈ (193.7)	BLN77L3S	6 (3)	C2-50	C2-92	BLN77L3C	9 (4)	C3-94	C3-93
	480	3.0	3	7 ⁵ / ₈ (193.7)	BLN77L13S	6 (3)	C2-43	C2-35	BLN77L13C	9 (4)	C3-116	C3-118
	120	4.5	1	10 ⁵ / ₈ (269.9)	BLN710L1S	7 (4)	C/F	C/F	BLN710L1C	10 (5)	C/F	C/F
	240	4.5	3	10 ⁵ / ₈ (269.9)	BLN710L3S	7 (4)	C2-50	C2-92	BLN710L3C	10 (5)	C3-94	C3-93
	480	4.5	3	10 ⁵ / ₈ (269.9)	BLN610K13S	7 (4)	C2-43	C2-35	BLN610K13C	10 (5)	C3-116	C3-118
	240	6.0	3	14 ⁵ / ₈ (371.5)	BLN714L3S	9 (4)	C2-50	C2-92	BLN714L3C	12 (6)	C3-94	C3-93
	480	6.0	3	14 ⁵ / ₈ (371.5)	BLN714L5S	9 (4)	C2-43	C2-35	BLN714L5C	12 (6)	C3-116	C3-118
	240	7.5	3	17 ⁵ / ₈ (447.7)	BLN717L3S	9 (4)	C2-50	C2-92	BLN717L3C	12 (6)	C3-94	C3-93
	480	7.5	3	17 ⁵ / ₈ (447.7)	BLN717L5S	9 (4)	C2-43	C2-35	BLN717L5C	12 (6)	C3-116	C3-118
	240	9.0	3	20 ⁵ / ₈ (523.9)	BLN720L3S	11 (5)	C2-50	C2-92	BLN720L3C	14 (7)	C3-94	C3-93
	480	9.0	3	20 ⁵ / ₈ (523.9)	BLN720L5S	11 (5)	C2-43	C2-35	BLN720L5C	14 (7)	C3-116	C3-118
	240	12.0	3	26 ¹ / ₈ (663.6)	BLN726C3S	12 (6)	C2-50	C2-92	BLN726C3C	15 (7)	C3-114	C3-115
	480	12.0	3	26 ¹ / ₈ (663.6)	BLN726C5S	12 (6)	C2-43	C2-35	BLN726C5C	15 (7)	C3-116	C3-118
	240	15.0	3	31 ⁵ / ₈ (803.3)	BLN731L3S	14 (7)	C2-50	C2-92	BLN731L3C	17 (8)	C3-114	C3-115
	480	15.0	3	31 ⁵ / ₈ (803.3)	BLN731L5S	14 (7)	C2-43	C2-35	BLN731L5C	17 (8)	C3-116	C3-118
	240	18.0	3	37 ¹ / ₈ (943.0)	BLN737C3S	15 (7)	C2-50	C2-92	BLN737C3C	18 (9)	C3-114	C3-115
	480	18.0	3	37 ¹ / ₈ (943.0)	BLN737C5S	15 (7)	C2-43	C2-35	BLN737C5C	18 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

Immersion Heaters



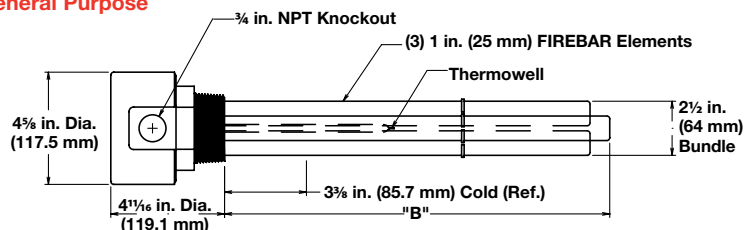
WATROD and FIREBAR Screw Plug Immersion Heaters



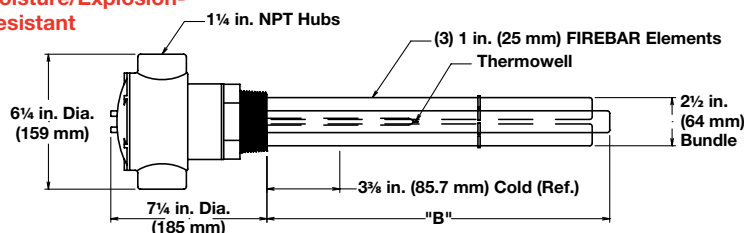
Application: Clean Water

- 2 1/2 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
90 W/in² ⑧ 304 SS Plug 3-Alloy 800 Elements (14 W/cm²)					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
	240	15.0	3	15 1/8 (384.2)	BLNF15C3S	11 (5)	C2-50	C2-92	BLNF15C3C	14 (7)	C3-114	C3-115
	480	15.0	3	15 1/8 (384.2)	BLNF15C5S	11 (5)	C2-43	C2-35	BLNF15C5C	14 (7)	C3-116	C3-118
	240	20.0	3	18 1/8 (460.4)	BLNF18C3S	12 (6)	C2-50	C2-92	BLNF18C3C	15 (7)	C3-114	C3-115
	480	20.0	3	18 1/8 (460.4)	BLNF18C5S ③	12 (6)	C2-43	C2-35	BLNF18C5C ③	15 (7)	C3-116	C3-118
	480	25.0	3	23 1/8 (587.4)	BLNF23C5S	14 (7)	C2-225	C2-226	BLNF23C5C	17 (8)	C3-117	C3-119
	480	32.0	3	28 5/8 (727.1)	BLNF28L5S	17 (8)	C2-225	C2-226	BLNF28L5C	20 (9)	C3-117	C3-119
	480	38.0	3	33 5/8 (854.1)	BLNF33L5S	18 (9)	C2-225	C2-226	BLNF33L5C	21 (10)	C3-117	C3-119

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

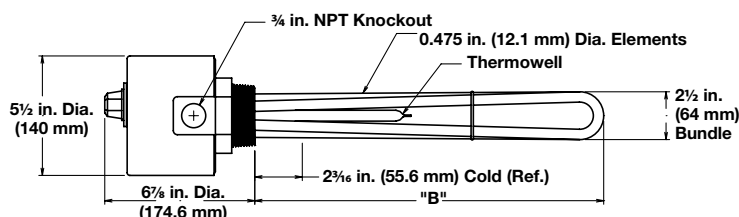


Application: Deionized/ Demineralized Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
60 W/in² 316 SS Plug 3-316 SS Elements (9.3 W/cm²) (Passivated)	240	3.0	3	7 ⁵ / ₈ (193.7)	7 (4)	BLR77L3S4	C/F	C/F	BLR77L3S5A	C/F	C/F	BLR77L3S7A	C/F	C/F
	480	3.0	3	7 ⁵ / ₈ (193.7)	7 (4)	BLR77L5S4	C/F	C/F	BLR77L5S5A	C/F	C/F	BLR77L5S7A	C/F	C/F
	240	4.5	3	10 ⁵ / ₈ (269.9)	8 (4)	BLR710L3S4	C/F	C/F	BLR710L3S5A	C/F	C/F	BLR710L3S7A	C/F	C/F
	480	4.5	3	10 ⁵ / ₈ (269.9)	8 (4)	BLR710L5S4	C/F	C/F	BLR710L5S5A	C/F	C/F	BLR710L5S7A	C/F	C/F
	240	6.0	3	14 ⁵ / ₈ (371.5)	10 (5)	BLR714L3S4	C/F	C/F	BLR714L3S5A	C/F	C/F	BLR714L3S7A	C/F	C/F
	480	6.0	3	14 ⁵ / ₈ (371.5)	10 (5)	BLR714L5S4	C/F	C/F	BLR714L5S5A	C/F	C/F	BLR714L5S7A	C/F	C/F
	240	7.5	3	17 ⁵ / ₈ (447.7)	10 (5)	BLR717L3S4	C/F	C/F	BLR717L3S5A	C/F	C/F	BLR717L3S7A	C/F	C/F
	240	9.0	3	20 ⁵ / ₈ (523.9)	12 (6)	BLR720L3S4	C/F	C/F	BLR720L3S5A	C/F	C/F	BLR720L3S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

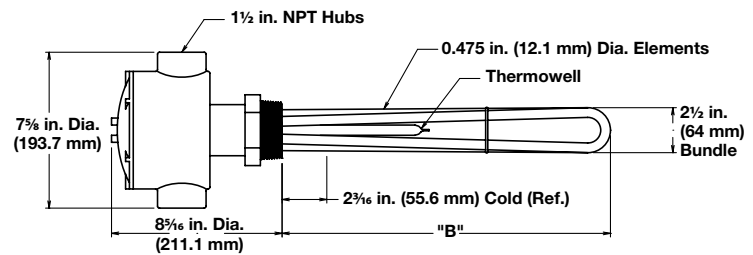
WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Deionized/ Demineralized Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



						Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
60 W/in² 316 SS Plug 3-316 SS Elements (9.3 W/cm²) (Passivated)	240	3.0	3	7 5/8 (193.7)	10 (5)	BLR77L3C4	C/F	C/F	BLR77L3C5A	C/F	C/F	BLR77L3C7A	C/F	C/F
	480	3.0	3	7 5/8 (193.7)	10 (5)	BLR77L5C4	C/F	C/F	BLR77L5C5A	C/F	C/F	BLR77L5C7A	C/F	C/F
	240	4.5	3	10 5/8 (269.9)	11 (5)	BLR710L3C4	C/F	C/F	BLR710L3C5A	C/F	C/F	BLR710L3C7A	C/F	C/F
	480	4.5	3	10 5/8 (269.9)	11 (5)	BLR710L5C4	C/F	C/F	BLR710L5C5A	C/F	C/F	BLR710L5C7A	C/F	C/F
	240	6.0	3	14 5/8 (371.5)	13 (6)	BLR714L3C4	C/F	C/F	BLR714L3C5A	C/F	C/F	BLR714L3C7A	C/F	C/F
	480	6.0	3	14 5/8 (371.5)	13 (6)	BLR714L5C4	C/F	C/F	BLR714L5C5A	C/F	C/F	BLR714L5C7A	C/F	C/F
	240	7.5	3	17 5/8 (447.7)	13 (6)	BLR717L3C4	C/F	C/F	BLR717L3C5A	C/F	C/F	BLR717L3C7A	C/F	C/F
	240	9.0	3	20 5/8 (523.9)	15 (7)	BLR720L3C4	C/F	C/F	BLR720L3C5A	C/F	C/F	BLR720L3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



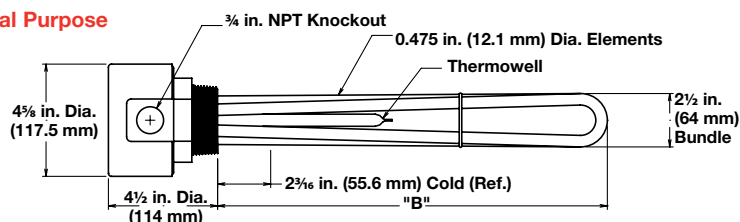
WATROD and FIREBAR Screw Plug Immersion Heaters



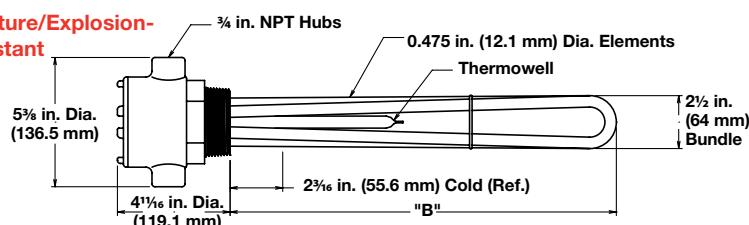
Application: Deionized/ Demineralized Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
60 W/in² 316 SS Plug 3-316 SS Elements (9.3 W/cm²) (Passivated)	120	3.0	1	7 ⁵ / ₈ (193.7)	BLR77L1S	6 (3)	C/F	C/F	BLR77L1C	9 (4)	C/F	C/F
	240	3.0	3	7 ⁵ / ₈ (193.7)	BLR77L3S	6 (3)	C2-50	C2-92	BLR77L3C	9 (4)	C3-94	C3-93
	480	3.0	3	7 ⁵ / ₈ (193.7)	BLR77L5S	6 (3)	C2-43	C2-35	BLR77L5C	9 (4)	C3-116	C3-118
	120	4.5	1	10 ⁵ / ₈ (269.9)	BLR710L1S	7 (4)	C/F	C/F	BLR710L1C	10 (5)	C/F	C/F
	240	4.5	3	10 ⁵ / ₈ (269.9)	BLR710L3S	7 (4)	C2-50	C2-92	BLR710L3C	10 (5)	C3-94	C3-93
	480	4.5	3	10 ⁵ / ₈ (269.9)	BLR710L5S	7 (4)	C2-43	C2-35	BLR710L5C	10 (5)	C3-116	C3-118
	240	6.0	3	14 ⁵ / ₈ (371.5)	BLR714L3S	9 (4)	C2-50	C2-92	BLR714L3C	12 (6)	C3-94	C3-93
	480	6.0	3	14 ⁵ / ₈ (371.5)	BLR714L5S	9 (4)	C2-43	C2-35	BLR714L5C	12 (6)	C3-116	C3-118
	240	7.5	3	17 ⁵ / ₈ (447.7)	BLR717L3S	9 (4)	C2-50	C2-92	BLR717L3C	12 (6)	C3-94	C3-93
	480	7.5	3	17 ⁵ / ₈ (447.7)	BLR717L5S	9 (4)	C2-43	C2-35	BLR717L5C	12 (6)	C3-116	C3-118
	240	9.0	3	20 ⁵ / ₈ (523.9)	BLR720L3S	11 (5)	C2-50	C2-92	BLR720L3C	14 (7)	C3-94	C3-93
	480	9.0	3	20 ⁵ / ₈ (523.9)	BLR720L5S	11 (5)	C2-43	C2-35	BLR720L5C	14 (7)	C3-116	C3-118
	240	12.0	3	26 ¹ / ₈ (663.6)	BLR726C3S	12 (6)	C2-236	C2-214	BLR726C3C	15 (7)	C3-114	C3-115
	480	12.0	3	26 ¹ / ₈ (663.6)	BLR726C5S	12 (6)	C2-43	C2-35	BLR726C5C	15 (7)	C3-116	C3-118
	240	15.0	3	31 ⁵ / ₈ (803.3)	BLR731L3S	14 (7)	C2-236	C2-214	BLR731L3C	17 (8)	C3-114	C3-115
	480	15.0	3	31 ⁵ / ₈ (803.3)	BLR731L5S	14 (7)	C2-43	C2-35	BLR731L5C	17 (8)	C3-116	C3-118
	240	18.0	3	37 ¹ / ₈ (943.0)	BLR737C3S	15 (7)	C2-236	C2-214	BLR737C3C	18 (9)	C3-114	C3-115
	480	18.0	3	37 ¹ / ₈ (943.0)	BLR737C5S	15 (7)	C2-43	C2-35	BLR737C5C	18 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



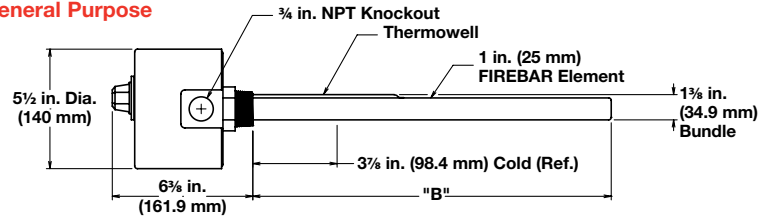
WATROD and FIREBAR Screw Plug Immersion Heaters



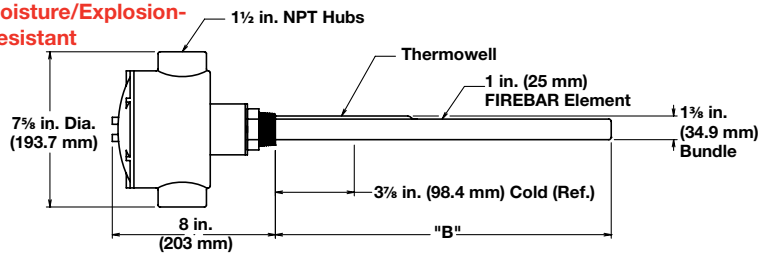
Application: Process Water

- 1 1/4 inch NPT screw plug
 - FIREBAR elements
 - With thermostat (DPST), Type 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- General purpose enclosure
 - Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
45 W/in ² ® 304 SS Plug 1-Alloy 800 Element (7 W/cm ²)	240	2.0	3	13 (330)	7 (4)	BDNF13A27S5A	C/F	C/F	BDNF13A27S7A	C/F	C/F
	240	2.5	3	15 1/2 (394)	8 (4)	BDNF15J27S5A	C/F	C/F	BDNF15J27S7A	C/F	C/F
	240	3.0	3	18 (457)	9 (4)	BDNF18A27S5A	C/F	C/F	BDNF18A27S7A	C/F	C/F
	240	4.0	3	22 1/2 (572)	10 (5)	BDNF22J27S5A	C/F	C/F	BDNF22J27S7A	C/F	C/F
	480	4.0	3	22 1/2 (572)	10 (5)	BDNF22J28S5A	C/F	C/F	BDNF22J28S7A	C/F	C/F
	240	5.0	3	27 1/2 (699)	11 (5)	BDNF27J27S5A	C/F	C/F	BDNF27J27S7A	C/F	C/F
	480	5.0	3	27 1/2 (699)	11 (5)	BDNF27J28S5A	C/F	C/F	BDNF27J28S7A	C/F	C/F
	240	6.0	3	32 1/2 (826)	12 (6)	BDNF32J27S5A	C/F	C/F	BDNF32J27S7A	C/F	C/F
	480	6.0	3	32 1/2 (826)	12 (6)	BDNF32J28S5A	C/F	C/F	BDNF32J28S7A	C/F	C/F
	240	8.0	3	42 (1067)	14 (7)	BDNF42A27S5A	C/F	C/F	BDNF42A27S7A	C/F	C/F
	240	10.0	3	51 1/2 (1308)	16 (8)	BDNF51J27S5A	C/F	C/F	BDNF51J27S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
45 W/in ² ® 304 SS Plug 1-Alloy 800 Element (7 W/cm ²)	240	2.0	3	13 (330)	10 (5)	BDNF13A27C5A	C/F	C/F	BDNF13A27C7A	C/F	C/F
	240	2.5	3	15 1/2 (394)	11 (5)	BDNF15J27C5A	C/F	C/F	BDNF15J27C7A	C/F	C/F
	240	3.0	3	18 (457)	12 (6)	BDNF18A27C5A	C/F	C/F	BDNF18A27C7A	C/F	C/F
	240	4.0	3	22 1/2 (572)	13 (6)	BDNF22J27C5A	C/F	C/F	BDNF22J27C7A	C/F	C/F
	480	4.0	3	22 1/2 (572)	13 (6)	BDNF22J28C5A	C/F	C/F	BDNF22J28C7A	C/F	C/F
	240	5.0	3	27 1/2 (699)	14 (7)	BDNF27J27C5A	C/F	C/F	BDNF27J27C7A	C/F	C/F
	480	5.0	3	27 1/2 (699)	14 (7)	BDNF27J28C5A	C/F	C/F	BDNF27J28C7A	C/F	C/F
	240	6.0	3	32 1/2 (826)	15 (7)	BDNF32J27C5A	C/F	C/F	BDNF32J27C7A	C/F	C/F
	480	6.0	3	32 1/2 (826)	15 (7)	BDNF32J28C5A	C/F	C/F	BDNF32J28C7A	C/F	C/F
	240	8.0	3	42 (1067)	17 (8)	BDNF42A27C5A	C/F	C/F	BDNF42A27C7A	C/F	C/F
	240	10.0	3	51 1/2 (1308)	19 (9)	BDNF51J27C5A	C/F	C/F	BDNF51J27C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters



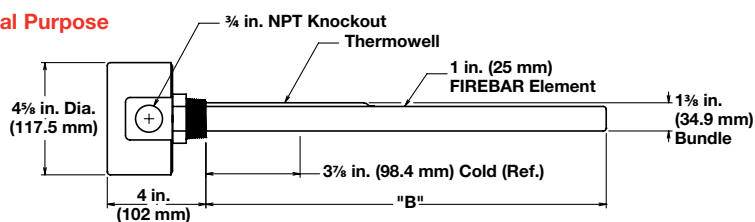
WATROD and FIREBAR Screw Plug Immersion Heaters



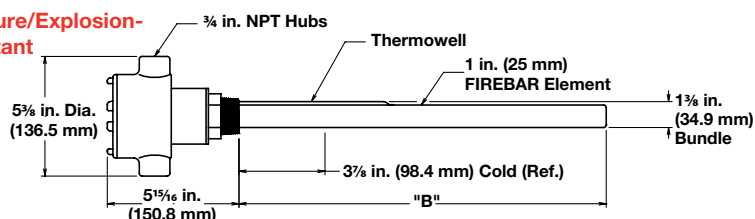
Application: Process Water

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
45 W/in² ⑧ 304 SS Plug 1-Alloy 800 Element (7 W/cm²)	240	2.0	3	13 (330)	BDNF13A27S	6 (3)	C2-50	C2-92	BDNF13A27C	9 (4)	C3-94	C3-93
	240	2.5	3	15 1/2 (394)	BDNF15J27S	7 (4)	C2-50	C2-92	BDNF15J27C	10 (5)	C3-94	C3-93
	240	3.0	3	18 (457)	BDNF18A27S	8 (4)	C2-50	C2-92	BDNF18A27C	11 (5)	C3-94	C3-93
	240	4.0	3	22 1/2 (572)	BDNF22J27S	9 (4)	C2-50	C2-92	BDNF22J27C	12 (6)	C3-94	C3-93
	480	4.0	3	22 1/2 (572)	BDNF22J28S	9 (4)	C2-43	C2-35	BDNF22J28C	12 (6)	C3-116	C3-118
	240	5.0	3	27 1/2 (699)	BDNF27J27S	10 (5)	C2-50	C2-92	BDNF27J27C	13 (6)	C3-94	C3-93
	480	5.0	3	27 1/2 (699)	BDNF27J28S	10 (5)	C2-43	C2-35	BDNF27J28C	13 (6)	C3-116	C3-118
	240	6.0	3	32 1/2 (826)	BDNF32J27S	11 (5)	C2-50	C2-92	BDNF32J27C	14 (7)	C3-94	C3-93
	480	6.0	3	32 1/2 (826)	BDNF32J28S	11 (5)	C2-43	C2-35	BDNF32J28C	14 (7)	C3-116	C3-118
	240	8.0	3	42 (1067)	BDNF42A27S	13 (6)	C2-50	C2-92	BDNF42A27C	16 (8)	C3-94	C3-93
	480	8.0	3	42 (1067)	BDNF42A28S	13 (6)	C2-43	C2-35	BDNF42A28C	16 (8)	C3-116	C3-118
	240	10.0	3	51 1/2 (1308)	BDNF51J27S	15 (7)	C2-50	C2-92	BDNF51J27C	18 (9)	C3-94	C3-93
	480	10.0	3	51 1/2 (1308)	BDNF51J28S	15 (7)	C2-43	C2-35	BDNF51J28C	18 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

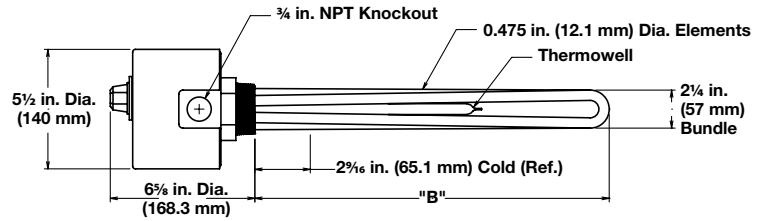


Application: Process Water

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
48 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (7.5 W/cm²)	120/240	2.0	1	9 ³ / ₄ (248)	5 (3)	BGN79N6S4	C/F	C/F	BGN79N6S5A	C/F	C/F	BGN79N6S7	C/F	C/F
	240/480	2.0	1	9 ³ / ₄ (248)	5 (3)	BGN79N7S4	C/F	C/F	BGN79N7S5A	C/F	C/F	BGN79N7S7A	C/F	C/F
	120/240	3.0	1	13 ¹ / ₄ (337)	6 (3)	BGN713E6S4	C/F	C/F	BGN713E6S5A	C/F	C/F	BGN713E6S7A	C/F	C/F
	240/480	3.0	1	13 ¹ / ₄ (337)	6 (3)	BGN713E7S4	C/F	C/F	BGN713E7S5A	C/F	C/F	BGN713E7S7A	C/F	C/F
	120/240	4.0	1	17 ³ / ₄ (451)	7 (4)	BGN717N6S4	C/F	C/F	BGN717N6S5A	C/F	C/F	BGN717N6S7A	C/F	C/F
	120/240	5.0	1	20 ¹ / ₄ (514)	8 (4)	BGN720E6S4	C/F	C/F	BGN720E6S5A	C/F	C/F	BGN720E6S7A	C/F	C/F
48 W/in² 304 SS Plug 3-Alloy 800 Elements (7.5 W/cm²)	240	3.0	3	9 ³ / ₄ (248)	6 (3)	BHN79N3S4	C/F	C/F	BHN79N3S5A	C/F	C/F	BHN79N3S7A	C/F	C/F
	480	3.0	3	9 ³ / ₄ (248)	6 (3)	BHN79N5S4	C/F	C/F	BHN79N5S5A	C/F	C/F	BHN79N5S7A	C/F	C/F
	240	4.5	3	13 ¹ / ₄ (337)	7 (4)	BHN713E3S4	C/F	C/F	BHN713E3S5A	C/F	C/F	BHN713E3S7A	C/F	C/F
	480	4.5	3	13 ¹ / ₄ (337)	7 (4)	BHN713E5S4	C/F	C/F	BHN713E5S5A	C/F	C/F	BHN713E5S7A	C/F	C/F
	240	6.0	3	17 ³ / ₄ (451)	8 (4)	BHN717N3S4	C/F	C/F	BHN717N3S5A	C/F	C/F	BHN717N3S7A	C/F	C/F
	480	6.0	3	17 ³ / ₄ (451)	8 (4)	BHN717N5S4	C/F	C/F	BHN717N5S5A	C/F	C/F	BHN717N5S7A	C/F	C/F
	240	7.5	3	20 ¹ / ₄ (514)	9 (4)	BHN720E3S4	C/F	C/F	BHN720E3S5A	C/F	C/F	BHN720E3S7A	C/F	C/F
	240	9.0	3	25 ¹ / ₄ (641)	10 (5)	BHN725E3S4	C/F	C/F	BHN725E3S5A	C/F	C/F	BHN725E3S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



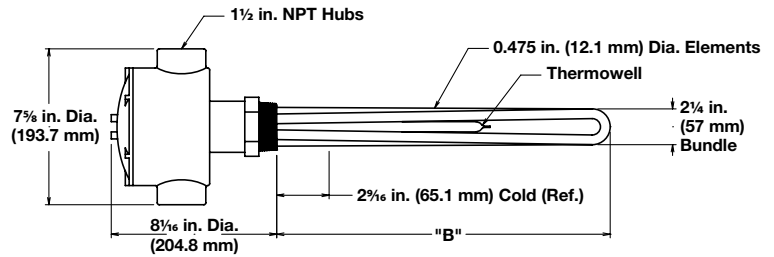
WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Process Water

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



						Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
48 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (7.5 W/cm²)	120/ 240	2.0	1	9¾ (248)	8 (4)	BGN79N6C4	C/F	C/F	BGN79N6C5A	C/F	C/F	BGN79N6C7A	C/F	C/F
	240/ 480	2.0	1	9¾ (248)	8 (4)	BGN79N7C4	C/F	C/F	BGN79N7C5A	C/F	C/F	BGN79N7C7A	C/F	C/F
	120/ 240	3.0	1	13¼ (337)	9 (4)	BGN713E6C4	C/F	C/F	BGN713E6C5A	C/F	C/F	BGN713E6C7A	C/F	C/F
	240/ 480	3.0	1	13¼ (337)	9 (4)	BGN713E7C4	C/F	C/F	BGN713E7C5A	C/F	C/F	BGN713E7C7A	C/F	C/F
	120/ 240	4.0	1	17¾ (451)	10 (5)	BGN717N6C4	C/F	C/F	BGN717N6C5A	C/F	C/F	BGN717N6C7A	C/F	C/F
	120/ 240	5.0	1	20¼ (514)	11 (5)	BGN720E6C4	C/F	C/F	BGN720E6C5A	C/F	C/F	BGN720E6C7A	C/F	C/F
48 W/in² 304 SS Plug 3-Alloy 800 Elements (7.5 W/cm²)	240	3.0	3	9¾ (248)	9 (4)	BHN79N3C4	C/F	C/F	BHN79N3C5A	C/F	C/F	BHN79N3C7A	C/F	C/F
	480	3.0	3	9¾ (248)	9 (4)	BHN79N5C4	C/F	C/F	BHN79N5C5A	C/F	C/F	BHN79N5C7A	C/F	C/F
	240	4.5	3	13¼ (337)	10 (5)	BHN713E3C4	C/F	C/F	BHN713E3C5A	C/F	C/F	BHN713E3C7A	C/F	C/F
	480	4.5	3	13¼ (337)	10 (5)	BHN713E5C4	C/F	C/F	BHN713E5C5A	C/F	C/F	BHN713E5C7A	C/F	C/F
	240	6.0	3	17¾ (451)	11 (5)	BHN717N3C4	C/F	C/F	BHN717N3C5A	C/F	C/F	BHN717N3C7A	C/F	C/F
	480	6.0	3	17¾ (451)	11 (5)	BHN717N5C4	C/F	C/F	BHN717N5C5A	C/F	C/F	BHN717N5C7A	C/F	C/F
	240	7.5	3	20¼ (514)	12 (6)	BHN720E3C4	C/F	C/F	BHN720E3C5A	C/F	C/F	BHN720E3C7A	C/F	C/F
	240	9.0	3	25¼ (641)	13 (6)	BHN725E3C4	C/F	C/F	BHN725E3C5A	C/F	C/F	BHN725E3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

- ④ Wired for higher voltage
- ⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



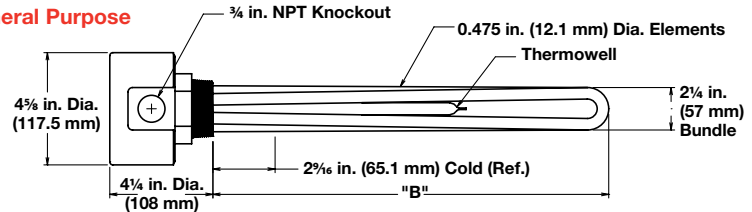
WATROD and FIREBAR Screw Plug Immersion Heaters



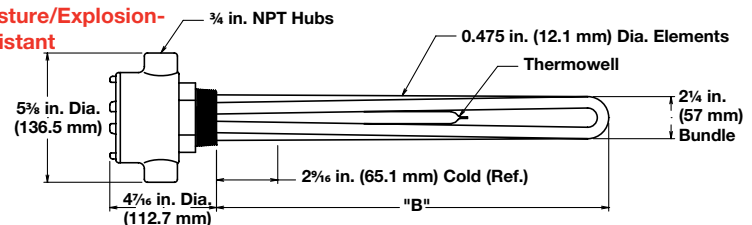
Application: Process Water

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number		240V WATCONNECT Part Number		480V WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Type J T/C	Type K T/C
48 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (7.5 W/cm²)	120/240	2.0	1	9 ³ / ₄ (248)	BGN79N6S	4 (2)	C1-15	C1-12	C1-17	C1-13	N/A	N/A
	240/480	2.0	1	9 ³ / ₄ (248)	BGN79N7S	4 (2)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	3.0	1	13 ¹ / ₄ (337)	BGN713E6S	5 (3)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	3.0	1	13 ¹ / ₄ (337)	BGN713E7S	5 (3)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	4.0	1	17 ³ / ₄ (451)	BGN717N6S	6 (3)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	4.0	1	17 ³ / ₄ (451)	BGN717N7S	6 (3)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	5.0	1	20 ¹ / ₄ (514)	BGN720E6S	7 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	5.0	1	20 ¹ / ₄ (514)	BGN720E7S	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	6.0	1	25 ¹ / ₄ (641)	BGN725E7S	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	8.0	1	32 ³ / ₄ (832)	BGN732N7S	8 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	10.0	1	40 ¹ / ₄ (1022)	BGN740E7S	9 (4)	N/A	N/A	C/F	C/F	C/F	C/F
48 W/in² 304 SS Plug 3-Alloy 800 Element (7.5 W/cm²)	120	3.0	1	9 ³ / ₄ (248)	BHN79N1S	5 (3)	C/F	C/F	N/A	N/A	N/A	N/A
	240	3.0	3	9 ³ / ₄ (248)	BHN79N3S	5 (3)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	3.0	3	9 ³ / ₄ (248)	BHN79N5S	5 (3)	N/A	N/A	N/A	N/A	C2-43	C2-35
	120	4.5	1	13 ¹ / ₄ (337)	BHN713E1S	6 (3)	C/F	C/F	N/A	N/A	N/A	N/A
	240	4.5	3	13 ¹ / ₄ (337)	BHN713E3S	6 (3)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	4.5	3	13 ¹ / ₄ (337)	BHN713E5S	6 (3)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	6.0	3	17 ³ / ₄ (451)	BHN717N3S	7 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	6.0	3	17 ³ / ₄ (451)	BHN717N5S	7 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	7.5	3	20 ¹ / ₄ (514)	BHN720E3S	8 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	7.5	3	20 ¹ / ₄ (514)	BHN720E5S	8 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	9.0	3	25 ¹ / ₄ (641)	BHN725E3S	9 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	9.0	3	25 ¹ / ₄ (641)	BHN725E5S	9 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	12.0	3	32 ³ / ₄ (832)	BHN732N3S	9 (4)	N/A	N/A	C2-236	C2-214	N/A	N/A
	480	12.0	3	32 ³ / ₄ (832)	BHN732N5S	9 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	15.0	3	40 ¹ / ₄ (1022)	BHN740E3S	10 (5)	N/A	N/A	C2-236	C2-214	N/A	N/A
	480	15.0	3	40 ¹ / ₄ (1022)	BHN740E5S	10 (5)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	18.0	3	47 ³ / ₄ (1213)	BHN747N3S	11 (5)	N/A	N/A	C2-236	C2-214	N/A	N/A
	480	18.0	3	47 ³ / ₄ (1213)	BHN747N5S	11 (5)	N/A	N/A	N/A	N/A	C2-43	C2-35

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

- ④ Wired for higher voltage
⑤ No third party recognition

Immersion Heaters



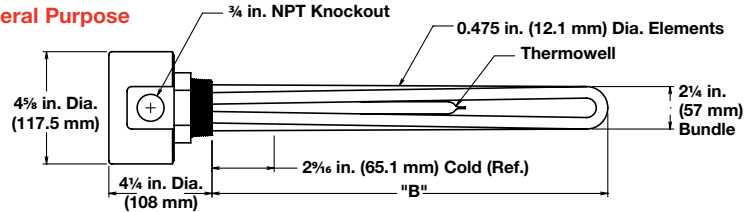
WATROD and FIREBAR Screw Plug Immersion Heaters



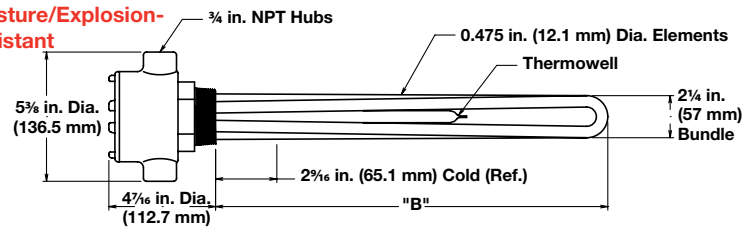
Application: Process Water

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	“B” Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number	240V WATCONNECT Part Number	480V WATCONNECT Part Number			
					Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Type J T/C	Type K T/C
48 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (7.5 W/cm²)	120/240	2.0	1	9¾ (248)	BGN79N6C	7 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	2.0	1	9¾ (248)	BGN79N7C	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	3.0	1	13¼ (337)	BGN713E6C	8 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	3.0	1	13¼ (337)	BGN713E7C	8 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	4.0	1	17¾ (451)	BGN717N6C	9 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	4.0	1	17¾ (451)	BGN717N7C	9 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	5.0	1	20¼ (514)	BGN720E6C	10 (5)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	5.0	1	20¼ (514)	BGN720E7C	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	6.0	1	25¼ (641)	BGN725E7C	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	8.0	1	32¾ (832)	BGN732N7C	11 (5)	N/A	N/A	C/F	C/F	C/F	C/F
240/480	10.0	1	40¼ (1022)	BGN740E7C	12 (6)	N/A	N/A	C/F	C/F	C/F	C/F	
48 W/in² 304 SS Plug 3-Alloy 800 Element (7.5 W/cm²)	120	3.0	1	9¾ (248)	BHN79N1C	8 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	3.0	3	9¾ (248)	BHN79N3C	8 (4)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	3.0	3	9¾ (248)	BHN79N5C	8 (4)	N/A	N/A	N/A	N/A	C3-116	C3-118
	120	4.5	1	13¼ (337)	BHN713E1C	9 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	4.5	3	13¼ (337)	BHN713E3C	9 (4)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	4.5	3	13¼ (337)	BHN713E5C	9 (4)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	6.0	3	17¾ (451)	BHN717N3C	10 (5)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	6.0	3	17¾ (451)	BHN717N5C	10 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	7.5	3	20¼ (514)	BHN720E3C	11 (5)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	7.5	3	20¼ (514)	BHN720E5C	11 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	9.0	3	25¼ (641)	BHN725E3C	12 (6)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	9.0	3	25¼ (641)	BHN725E5C	12 (6)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	12.0	3	32¾ (832)	BHN732N3C	12 (6)	N/A	N/A	C3-114	C3-115	N/A	N/A
	480	12.0	3	32¾ (832)	BHN732N5C	12 (6)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	15.0	3	40¼ (1022)	BHN740E3C	13 (6)	N/A	N/A	C3-114	C3-115	N/A	N/A
	480	15.0	3	40¼ (1022)	BHN740E5C	13 (6)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	18.0	3	47¾ (1213)	BHN747N3C	14 (7)	N/A	N/A	C3-114	C3-115	N/A	N/A
	480	18.0	3	47¾ (1213)	BHN747N5C	14 (7)	N/A	N/A	N/A	N/A	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

- ④ Wired for higher voltage
⑤ No third party recognition

Immersion Heaters



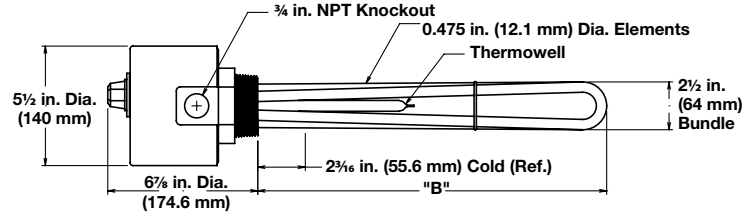
WATROD and FIREBAR Screw Plug Immersion Heaters



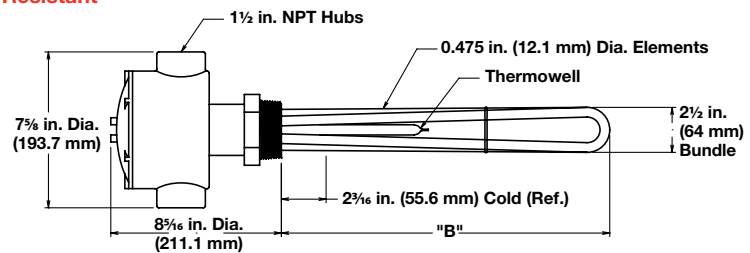
Application: Process Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A
Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
48 W/in ² 304 SS Plug 3-Alloy 800 Elements (7.5 W/cm ²)	240	3.0	3	9 3/8 (238.1)	7 (4)	BLN79G3S4	C/F	C/F	BLN79G3S5A	C/F	C/F	BLN79G3S7A	C/F	C/F
	480	3.0	3	9 3/8 (238.1)	7 (4)	BLN79G5S4	C/F	C/F	BLN79G5S5A	C/F	C/F	BLN79G5S7A	C/F	C/F
	240	4.5	3	12 7/8 (327.0)	8 (4)	BLN712R3S4	C/F	C/F	BLN712R3S5A	C/F	C/F	BLN712R3S7A	C/F	C/F
	480	4.5	3	12 7/8 (327.0)	8 (4)	BLN712R5S4	C/F	C/F	BLN712R5S5A	C/F	C/F	BLN712R5S7A	C/F	C/F
	240	6.0	3	17 3/8 (441.3)	10 (5)	BLN717G3S4	C/F	C/F	BLN717G3S5A	C/F	C/F	BLN717G3S7A	C/F	C/F
	480	6.0	3	17 3/8 (441.3)	10 (5)	BLN717G5S4	C/F	C/F	BLN717G5S5A	C/F	C/F	BLN717G5S7A	C/F	C/F
	240	7.5	3	19 7/8 (504.8)	12 (6)	BLN719R3S4	C/F	C/F	BLN719R3S5A	C/F	C/F	BLN719R3S7A	C/F	C/F
	240	9.0	3	24 7/8 (631.8)	13 (6)	BLN724R3S4	C/F	C/F	BLN724R3S5A	C/F	C/F	BLN724R3S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
48 W/in ² 304 SS Plug 3-Alloy 800 Elements (7.5 W/cm ²)	240	3.0	3	9 3/8 (238.1)	10 (5)	BLN79G3C4	C/F	C/F	BLN79G3C5A	C/F	C/F	BLN79G3C7A	C/F	C/F
	480	3.0	3	9 3/8 (238.1)	10 (5)	BLN79G5C4	C/F	C/F	BLN79G5C5A	C/F	C/F	BLN79G5C7A	C/F	C/F
	240	4.5	3	12 7/8 (327.0)	11 (5)	BLN712R3C4	C/F	C/F	BLN712R3C5A	C/F	C/F	BLN712R3C7A	C/F	C/F
	480	4.5	3	12 7/8 (327.0)	11 (5)	BLN712R5C4	C/F	C/F	BLN712R5C5A	C/F	C/F	BLN712R5C7A	C/F	C/F
	240	6.0	3	17 3/8 (441.3)	13 (6)	BLN717G3C4	C/F	C/F	BLN717G3C5A	C/F	C/F	BLN717G3C7A	C/F	C/F
	480	6.0	3	17 3/8 (441.3)	13 (6)	BLN717G5C4	C/F	C/F	BLN717G5C5A	C/F	C/F	BLN717G5C7A	C/F	C/F
	240	7.5	3	19 7/8 (504.8)	15 (7)	BLN719R3C4	C/F	C/F	BLN719R3C5A	C/F	C/F	BLN719R3C7A	C/F	C/F
	240	9.0	3	24 7/8 (631.8)	16 (8)	BLN724R3C4	C/F	C/F	BLN724R3C5A	C/F	C/F	BLN724R3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



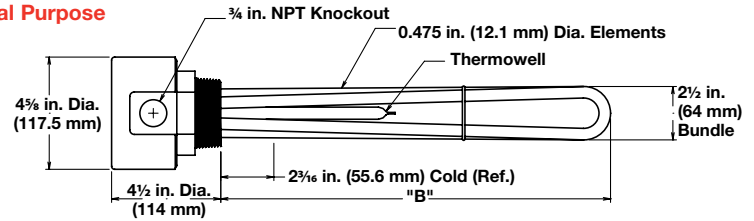
WATROD and FIREBAR Screw Plug Immersion Heaters



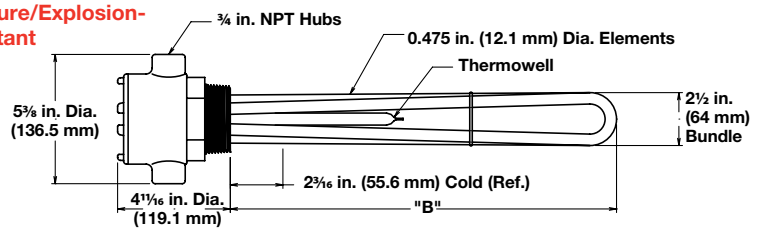
Application: Process Water

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
48 W/in² 304 SS Plug 3-Alloy 800 Elements (7.5 W/cm²)	120	3.0	1	9 ³ / ₈ (238.1)	BLN79G1S	6 (3)	C/F	C/F	BLN79G1C	9 (4)	C/F	C/F
	240	3.0	3	9 ³ / ₈ (238.1)	BLN79G3S	6 (3)	C2-50	C2-92	BLN79G3C	9 (4)	C3-94	C3-93
	480	3.0	3	9 ³ / ₈ (238.1)	BLN79G5S	6 (3)	C2-43	C2-35	BLN79G5C	9 (4)	C3-116	C3-118
	120	4.5	1	12 ⁷ / ₈ (327.0)	BLN712R1S	7 (4)	C/F	C/F	BLN712R1C	10 (5)	C/F	C/F
	240	4.5	3	12 ⁷ / ₈ (327.0)	BLN712R3S	7 (4)	C2-50	C2-92	BLN712R3C	10 (5)	C3-94	C3-93
	480	4.5	3	12 ⁷ / ₈ (327.0)	BLN712R5S	7 (4)	C2-43	C2-35	BLN712R5C	10 (5)	C3-116	C3-118
	240	6.0	3	17 ³ / ₈ (441.3)	BLN717G3S	9 (4)	C2-50	C2-92	BLN717G3C	12 (6)	C3-94	C3-93
	480	6.0	3	17 ³ / ₈ (441.3)	BLN717G5S	9 (4)	C2-43	C2-35	BLN717G5C	12 (6)	C3-116	C3-118
	240	7.5	3	19 ⁷ / ₈ (504.8)	BLN719R3S	11 (5)	C2-50	C2-92	BLN719R3C	14 (7)	C3-94	C3-93
	480	7.5	3	19 ⁷ / ₈ (504.8)	BLN719R5S	11 (5)	C2-43	C2-35	BLN719R5C	14 (7)	C3-116	C3-118
	240	9.0	3	24 ⁷ / ₈ (631.8)	BLN724R3S	12 (6)	C2-50	C2-92	BLN724R3C	15 (7)	C3-94	C3-93
	480	9.0	3	24 ⁷ / ₈ (631.8)	BLN724R5S	12 (6)	C2-43	C2-35	BLN724R5C	15 (7)	C3-116	C3-118
	240	12.0	3	32 ³ / ₈ (822.3)	BLN732G3S	14 (7)	C2-236	C2-214	BLN732G3C	17 (8)	C3-114	C3-115
	480	12.0	3	32 ³ / ₈ (822.3)	BLN732G5S	14 (7)	C2-43	C2-35	BLN732G5C	17 (8)	C3-116	C3-118
	240	15.0	3	39 ⁷ / ₈ (1012.8)	BLN739R3S	15 (7)	C2-236	C2-214	BLN739R3C	18 (9)	C3-114	C3-115
	480	15.0	3	39 ⁷ / ₈ (1012.8)	BLN739R5S	15 (7)	C2-43	C2-35	BLN739R5C	18 (9)	C3-116	C3-118
	240	18.0	3	47 ³ / ₈ (1203.3)	BLN747G3S	17 (8)	C2-236	C2-214	BLN747G3C	20 (9)	C3-114	C3-115
	480	18.0	3	47 ³ / ₈ (1203.3)	BLN747G5S	17 (8)	C2-43	C2-35	BLN747G5C	20 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



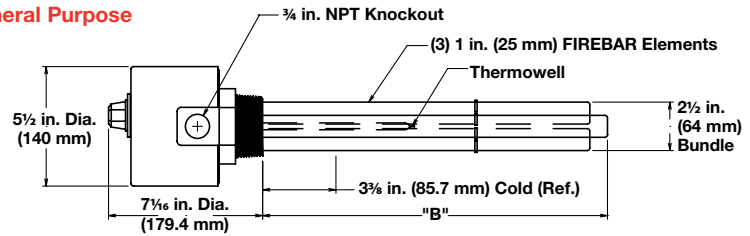
WATROD and FIREBAR Screw Plug Immersion Heaters



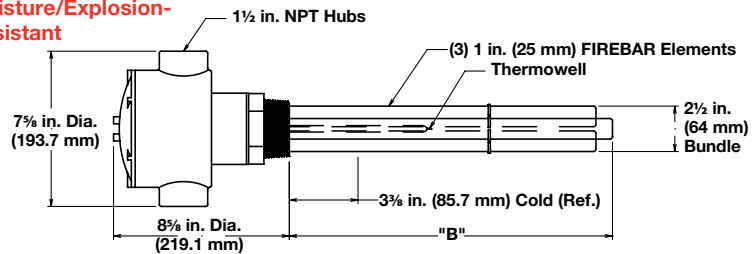
Application: Process Water

- 2 1/2 inch NPT screw plug
 - FIREBAR elements
 - With thermostat (DPST), Type 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- General purpose enclosure
 - Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



						Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
45 W/in ² ⑧ 304 SS Plug 3-Alloy 800 Elements (7 W/cm ²)	240	6.0	3	12 (305)	12 (6)	BLNF12A27S5A	C/F	C/F	BLNF12A27S7A	C/F	C/F
	240	7.5	3	14 1/2 (368)	12 (6)	BLNF14J27S5A	C/F	C/F	BLNF14J27S7A	C/F	C/F
	240	9.0	3	17 (432)	13 (6)	BLNF17A27S5A	C/F	C/F	BLNF17A27S7A	C/F	C/F
	240	12.0	3	21 1/2 (546)	15 (7)	BLNF21J27S5A	C/F	C/F	BLNF21J27S7A	C/F	C/F
						Moisture/Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
45 W/in ² ⑧ 304 SS Plug 3-Alloy 800 Elements (7 W/cm ²)	240	6.0	3	12 (305)	14 (7)	BLNF12A27C5A	C/F	C/F	BLNF12A27C7A	C/F	C/F
	240	7.5	3	14 1/2 (368)	15 (7)	BLNF14J27C5A	C/F	C/F	BLNF14J27C7A	C/F	C/F
	240	9.0	3	17 (432)	16 (8)	BLNF17A27C5A	C/F	C/F	BLNF17A27C7A	C/F	C/F
	240	12.0	3	21 1/2 (546)	18 (9)	BLNF21J27C5A	C/F	C/F	BLNF21J27C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters



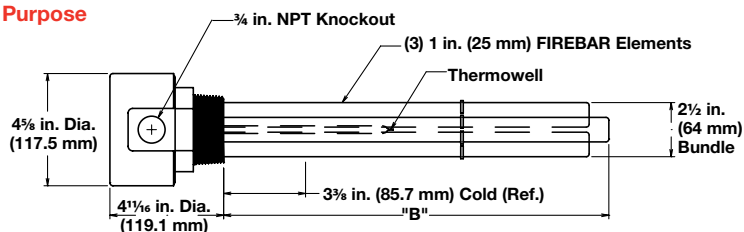
WATROD and FIREBAR Screw Plug Immersion Heaters



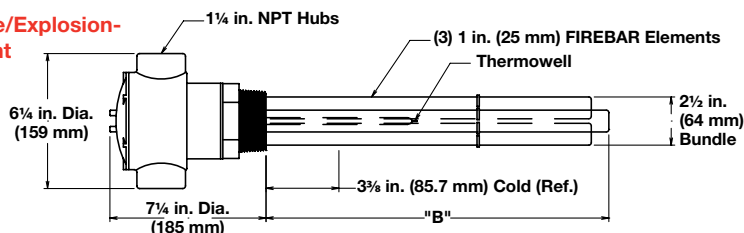
Application: Process Water

- 2 1/2 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
45 W/in ² ⑧ 304 SS Plug 3-Alloy 800 Elements (7 W/cm ²)	240	6.0	3	12 (305)	BLNF12A27S	10 (5)	C2-50	C2-92	BLNF12A27C	13 (6)	C3-94	C3-93
	240	7.5	3	14 1/2 (368)	BLNF14J27S	11 (5)	C2-50	C2-92	BLNF14J27C	14 (7)	C3-94	C3-93
	240	9.0	3	17 (432)	BLNF17A27S	12 (6)	C2-50	C2-92	BLNF17A27C	15 (7)	C3-94	C3-93
	240	12.0	3	21 1/2 (546)	BLNF21J27S	14 (7)	C2-236	C2-214	BLNF21J27C	17 (8)	C3-114	C3-115
	480	12.0	3	21 1/2 (546)	BLNF21J28S	14 (7)	C2-43	C2-35	BLNF21J28C	17 (8)	C3-116	C3-118
	240	15.0	3	26 1/2 (673)	BLNF26J27S	17 (8)	C2-236	C2-214	BLNF26J27C	20 (9)	C3-114	C3-115
	480	15.0	3	26 1/2 (673)	BLNF26J28S	17 (8)	C2-43	C2-35	BLNF26J28C	20 (9)	C3-116	C3-118
	240	18.0	3	31 1/2 (800)	BLNF31J27S	18 (9)	C2-236	C2-214	BLNF31J27C	21 (10)	C3-114	C3-115
	480	18.0	3	31 1/2 (800)	BLNF31J28S	18 (9)	C2-43	C2-35	BLNF31J28C	21 (10)	C3-116	C3-118
	480	24.0	3	41 (1041)	BLNF41A28S	20 (9)	C2-225	C2-226	BLNF41A28C	23 (11)	C3-117	C3-119
	480	30.0	3	50 1/2 (1283)	BLNF50J28S	22 (10)	C2-225	C2-226	BLNF50J28C	25 (12)	C3-117	C3-119

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters



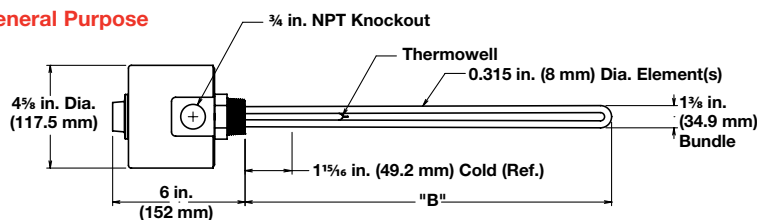
WATROD and FIREBAR Screw Plug Immersion Heaters



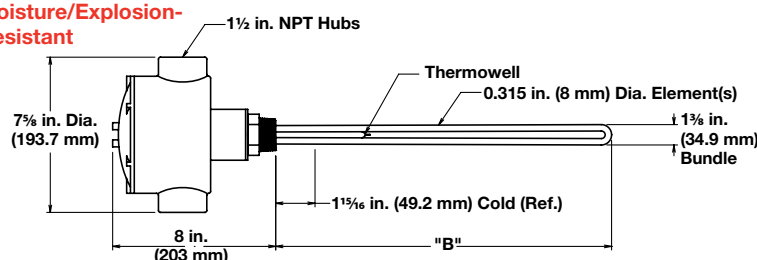
Application: Forced Air and Caustic Solutions

- 1 1/4 inch NPT screw plug
- WATROD elements
- With thermostat (SPST), Type 2 or 3
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure
(suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 2 (30 to 250°F)			Type 3 (175 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (3.6 W/cm²)	120/240	1.0	1	13 ³ / ₈ (339.7)	6 (3)	BEN13G6S2	C/F	C/F	BEN13G6S3	C/F	C/F
	120/240	1.5	1	19 (483.0)	7 (4)	BEN19A6S2	C/F	C/F	BEN19A6S3	C/F	C/F
	120/240	2.0	1	24 ³ / ₈ (619.1)	8 (4)	BEN24G6S2	C/F	C/F	BEN24G6S3	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ^⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ^⑤	Type J T/C	Type K T/C
23 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (3.6 W/cm²)	120/240	1.0	1	13 ³ / ₈ (339.7)	10 (5)	BEN13G6C2	C/F	C/F	BEN13G6C3	C/F	C/F
	120/240	1.5	1	19 (483.0)	11 (5)	BEN19A6C2	C/F	C/F	BEN19A6C3	C/F	C/F
	120/240	2.0	1	24 ³ / ₈ (619.1)	12 (6)	BEN24G6C2	C/F	C/F	BEN24G6C3	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

④ Wired for higher voltage

⑤ No third party recognition

Immersion Heaters



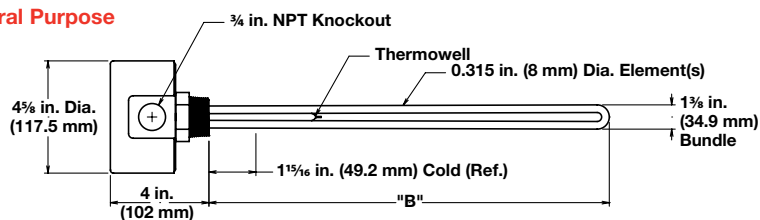
WATROD and FIREBAR Screw Plug Immersion Heaters



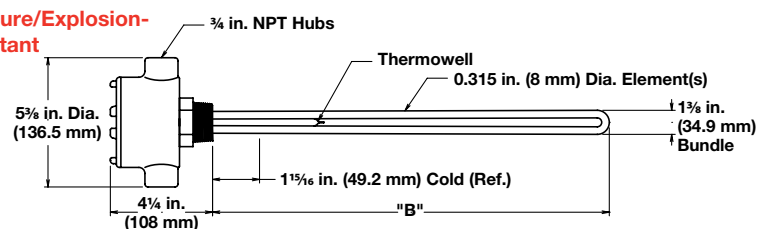
Application: Forced Air and Caustic Solutions

- 1 1/4 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure
(suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number		240V WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Moisture Explosion- Resistant Enclosure		Type J T/C	Type K T/C
23 W/in² ④ 304 SS Plug 2-Alloy 800 Elements (3.6 W/cm²)	120/ 240	1.0	1	13 ³ / ₈ (339.7)	BEN13G6S	6 (3)	C1-15	C1-12	C1-17	C1-13	BEN13G6C	9 (4)	C/F	C/F
	120/ 240	1.5	1	19 (483.0)	BEN19A6S	7 (4)	C1-15	C1-12	C1-17	C1-13	BEN19A6C	10 (5)	C/F	C/F
	120/ 240	2.0	1	24 ³ / ₈ (619.1)	BEN24G6S	8 (4)	C1-15	C1-12	C1-17	C1-13	BEN24G6C	11 (5)	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters



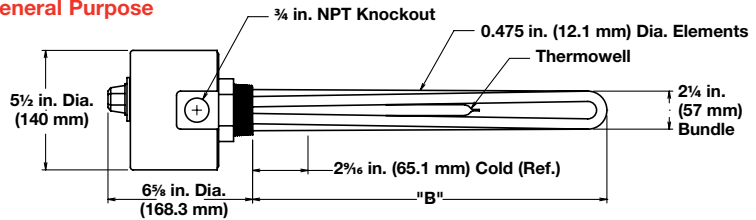
Application: Forced Air and Caustic Solutions

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

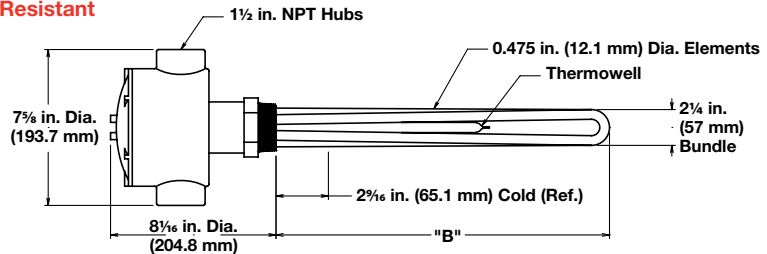
Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in² ⑥ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	240	3.0	3	17 ³ / ₄ (451)	8 (4)	BHNA17N3S4	C/F	C/F	BHNA17N3S5A	C/F	C/F	BHNA17N3S7A	C/F	C/F
	480	3.0	3	17 ³ / ₄ (451)	8 (4)	BHNA17N5S4	C/F	C/F	BHNA17N5S5A	C/F	C/F	BHNA17N5S7A	C/F	C/F
	240	4.5	3	25 ¹ / ₄ (641)	10 (5)	BHNA25E3S4	C/F	C/F	BHNA25E3S5A	C/F	C/F	BHNA25E3S7A	C/F	C/F
	480	4.5	3	25 ¹ / ₄ (641)	10 (5)	BHNA25E5S4	C/F	C/F	BHNA25E5S5A	C/F	C/F	BHNA25E5S7A	C/F	C/F
	240	6.0	3	32 ³ / ₄ (832)	10 (5)	BHNA32N3S4	C/F	C/F	BHNA32N3S5A	C/F	C/F	BHNA32N3S7A	C/F	C/F
	480	6.0	3	32 ³ / ₄ (832)	10 (5)	BHNA32N5S4	C/F	C/F	BHNA32N5S5A	C/F	C/F	BHNA32N5S7A	C/F	C/F
	240	7.5	3	40 ¹ / ₄ (1022)	11 (5)	BHNA40E3S4	C/F	C/F	BHNA40E3S5A	C/F	C/F	BHNA40E3S7A	C/F	C/F
	240	9.0	3	47 ³ / ₄ (1213)	12 (6)	BHNA47N3S4	C/F	C/F	BHNA47N3S5A	C/F	C/F	BHNA47N3S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
23 W/in² ⑥ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	240	3.0	3	17 ³ / ₄ (451)	11 (5)	BHNA17N3C4	C/F	C/F	BHNA17N3C5A	C/F	C/F	BHNA17N3C7A	C/F	C/F
	480	3.0	3	17 ³ / ₄ (451)	11 (5)	BHNA17N5C4	C/F	C/F	BHNA17N5C5A	C/F	C/F	BHNA17N5C7A	C/F	C/F
	240	4.5	3	25 ¹ / ₄ (641)	13 (6)	BHNA25E3C4	C/F	C/F	BHNA25E3C5A	C/F	C/F	BHNA25E3C7A	C/F	C/F
	480	4.5	3	25 ¹ / ₄ (641)	13 (6)	BHNA25E5C4	C/F	C/F	BHNA25E5C5A	C/F	C/F	BHNA25E5C7A	C/F	C/F
	240	6.0	3	32 ³ / ₄ (832)	13 (6)	BHNA32N3C4	C/F	C/F	BHNA32N3C5A	C/F	C/F	BHNA32N3C7A	C/F	C/F
	480	6.0	3	32 ³ / ₄ (832)	13 (6)	BHNA32N5C4	C/F	C/F	BHNA32N5C5A	C/F	C/F	BHNA32N5C7A	C/F	C/F
	240	7.5	3	40 ¹ / ₄ (1022)	14 (7)	BHNA40E3C4	C/F	C/F	BHNA40E3C5A	C/F	C/F	BHNA40E3C7A	C/F	C/F
	240	9.0	3	47 ³ / ₄ (1213)	15 (7)	BHNA47N3C4	C/F	C/F	BHNA47N3C5A	C/F	C/F	BHNA47N3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

⑥ Can be rewired wye to produce 1/3 of the original kW and watt density (3-phase only)

Immersion Heaters

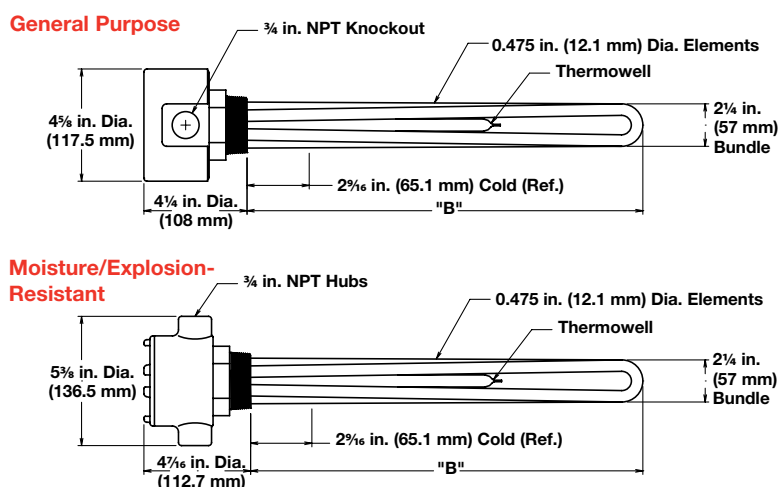


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Forced Air and Caustic Solutions

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure
(suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
23 W/in² ⑥ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	120	3.0	1	17 ³ / ₄ (451)	BHNA17N1S	7 (4)	C/F	C/F	BHNA17N1C	10 (5)	C/F	C/F
	240	3.0	3	17 ³ / ₄ (451)	BHNA17N3S	7 (4)	C2-50	C2-92	BHNA17N3C	10 (5)	C3-94	C3-93
	480	3.0	3	17 ³ / ₄ (451)	BHNA17N5S	7 (4)	C2-43	C2-35	BHNA17N5C	10 (5)	C3-116	C3-118
	120	4.5	1	25 ¹ / ₄ (641)	BHNA25E1S	8 (4)	C/F	C/F	BHNA25E1C	11 (5)	C/F	C/F
	240	4.5	3	25 ¹ / ₄ (641)	BHNA25E3S	8 (4)	C2-50	C2-92	BHNA25E3C	11 (5)	C3-94	C3-93
	480	4.5	3	25 ¹ / ₄ (641)	BHNA25E5S	8 (4)	C2-43	C2-35	BHNA25E5C	11 (5)	C3-116	C3-118
	240	6.0	3	32 ³ / ₄ (832)	BHNA32N3S	9 (4)	C2-50	C2-92	BHNA32N3C	12 (6)	C3-94	C3-93
	480	6.0	3	32 ³ / ₄ (832)	BHNA32N5S	9 (4)	C2-43	C2-35	BHNA32N5C	12 (6)	C3-116	C3-118
	240	7.5	3	40 ¹ / ₄ (1022)	BHNA40E3S	10 (5)	C2-50	C2-92	BHNA40E3C	13 (6)	C3-94	C3-93
	480	7.5	3	40 ¹ / ₄ (1022)	BHNA40E5S	10 (5)	C2-43	C2-35	BHNA40E5C	13 (6)	C3-116	C3-118
	240	9.0	3	47 ³ / ₄ (1213)	BHNA47N3S	11 (5)	C2-50	C2-92	BHNA47N3C	14 (7)	C3-94	C3-93
	480	9.0	3	47 ³ / ₄ (1213)	BHNA47N5S	11 (5)	C2-43	C2-35	BHNA47N5C	14 (7)	C3-116	C3-118
	240	12.5	3	64 ¹ / ₄ (1632)	BHNA64E3S	15 (7)	C2-236	C2-214	BHNA64E3C	18 (9)	C3-114	C3-115
	480	12.5	3	64 ¹ / ₄ (1632)	BHNA64E5S	15 (7)	C2-43	C2-35	BHNA64E5C	18 (9)	C3-116	C3-118
	240	15.0	3	76 ³ / ₄ (1950)	BHNA76E3S	18 (9)	C2-236	C2-214	BHNA76E3C	21 (10)	C3-114	C3-115
	480	15.0	3	76 ³ / ₄ (1950)	BHNA76E5S	18 (9)	C2-43	C2-35	BHNA76E5C	21 (10)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

⑥ Can be rewired wye to produce $\frac{1}{3}$ of the original kW and watt density (3-phase only)

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters



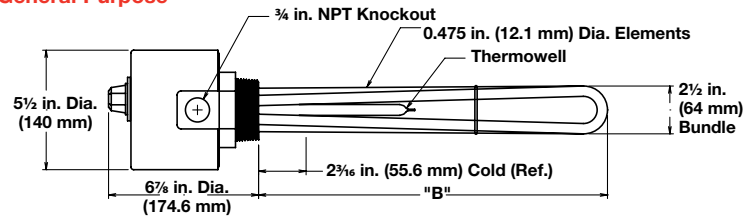
Application: Forced Air and Caustic Solutions

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

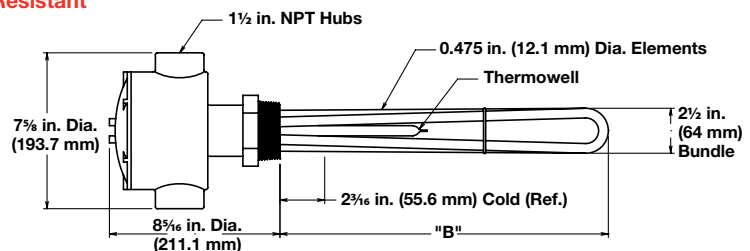
Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in² ⑥ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	240	3.0	3	17 ³ / ₈ (441.3)	10 (5)	BLNA17G3S4	C/F	C/F	BLNA17G3S5A	C/F	C/F	BLNA17G3S7A	C/F	C/F
	480	3.0	3	17 ³ / ₈ (441.3)	10 (5)	BLNA17G5S4	C/F	C/F	BLNA17G5S5A	C/F	C/F	BLNA17G5S7A	C/F	C/F
	240	4.5	3	24 ⁷ / ₈ (631.8)	13 (6)	BLNA24R3S4	C/F	C/F	BLNA24R3S5A	C/F	C/F	BLNA24R3S7A	C/F	C/F
	480	4.5	3	24 ⁷ / ₈ (631.8)	13 (6)	BLNA24R5S4	C/F	C/F	BLNA24R5S5A	C/F	C/F	BLNA24R5S7A	C/F	C/F
	240	6.0	3	32 ³ / ₈ (822.3)	15 (7)	BLNA32G3S4	C/F	C/F	BLNA32G3S5A	C/F	C/F	BLNA32G3S7A	C/F	C/F
	480	6.0	3	32 ³ / ₈ (822.3)	15 (7)	BLNA32G5S4	C/F	C/F	BLNA32G5S5A	C/F	C/F	BLNA32G5S7A	C/F	C/F
	240	7.5	3	39 ⁷ / ₈ (1012.8)	16 (8)	BLNA39R3S4	C/F	C/F	BLNA39R3S5A	C/F	C/F	BLNA39R3S7A	C/F	C/F
	240	9.0	3	47 ³ / ₈ (1203.3)	18 (9)	BLNA47G3S4	C/F	C/F	BLNA47G3S5A	C/F	C/F	BLNA47G3S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
23 W/in² ⑥ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	240	3.0	3	17 ³ / ₈ (441.3)	13 (6)	BLNA17G3C4	C/F	C/F	BLNA17G3C5A	C/F	C/F	BLNA17G3C7A	C/F	C/F
	480	3.0	3	17 ³ / ₈ (441.3)	13 (6)	BLNA17G5C4	C/F	C/F	BLNA17G5C5A	C/F	C/F	BLNA17G5C7A	C/F	C/F
	240	4.5	3	24 ⁷ / ₈ (631.8)	16 (8)	BLNA24R3C4	C/F	C/F	BLNA24R3C5A	C/F	C/F	BLNA24R3C7A	C/F	C/F
	480	4.5	3	24 ⁷ / ₈ (631.8)	16 (8)	BLNA24R5C4	C/F	C/F	BLNA24R5C5A	C/F	C/F	BLNA24R5C7A	C/F	C/F
	240	6.0	3	32 ³ / ₈ (822.3)	18 (9)	BLNA32G3C4	C/F	C/F	BLNA32G3C5A	C/F	C/F	BLNA32G3C7A	C/F	C/F
	480	6.0	3	32 ³ / ₈ (822.3)	18 (9)	BLNA32G5C4	C/F	C/F	BLNA32G5C5A	C/F	C/F	BLNA32G5C7A	C/F	C/F
	240	7.5	3	39 ⁷ / ₈ (1012.8)	19 (9)	BLNA39R3C4	C/F	C/F	BLNA39R3C5A	C/F	C/F	BLNA39R3C7A	C/F	C/F
	240	9.0	3	47 ³ / ₈ (1203.3)	21 (10)	BLNA47G3C4	C/F	C/F	BLNA47G3C5A	C/F	C/F	BLNA47G3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

⑥ Can be rewired wye to produce 1/3 of the original kW and watt density (3-phase only)

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



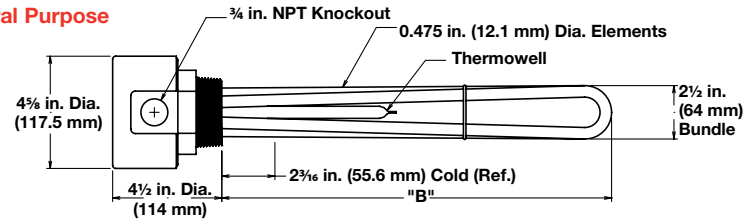
WATROD and FIREBAR Screw Plug Immersion Heaters



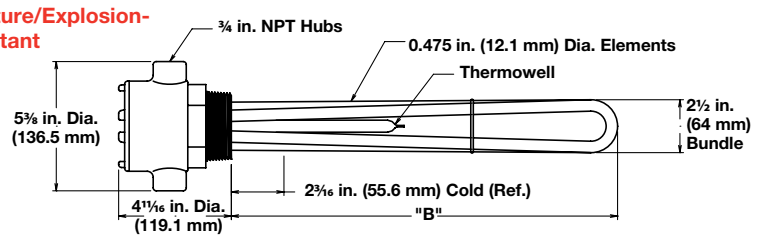
Application: Forced Air and Caustic Solutions

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
23 W/in² ⑥ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	120	3.0	1	17 ³ / ₈ (441.3)	BLNA17G1S	9 (4)	C/F	C/F	BLNA17G1C	12 (6)	C/F	C/F
	240	3.0	3	17 ³ / ₈ (441.3)	BLNA17G3S	9 (4)	C2-50	C2-92	BLNA17G3C	12 (6)	C3-94	C3-93
	480	3.0	3	17 ³ / ₈ (441.3)	BLNA17G5S	9 (4)	C2-43	C2-35	BLNA17G5C	12 (6)	C3-116	C3-118
	120	4.5	1	24 ⁷ / ₈ (631.8)	BLNA24R1S	12 (6)	C/F	C/F	BLNA24R1C	15 (7)	C/F	C/F
	240	4.5	3	24 ⁷ / ₈ (631.8)	BLNA24R3S	12 (6)	C2-50	C2-92	BLNA24R3C	15 (7)	C3-94	C3-93
	480	4.5	3	24 ⁷ / ₈ (631.8)	BLNA24R5S	12 (6)	C2-43	C2-35	BLNA24R5C	15 (7)	C3-116	C3-118
	240	6.0	3	32 ³ / ₈ (822.3)	BLNA32G3S	14 (7)	C2-50	C2-92	BLNA32G3C	17 (8)	C3-94	C3-93
	480	6.0	3	32 ³ / ₈ (822.3)	BLNA32G5S	14 (7)	C2-43	C2-35	BLNA32G5C	17 (8)	C3-116	C3-118
	240	7.5	3	39 ⁷ / ₈ (1012.8)	BLNA39R3S	15 (7)	C2-50	C2-92	BLNA39R3C	18 (9)	C3-94	C3-93
	480	7.5	3	39 ⁷ / ₈ (1012.8)	BLNA39R5S	15 (7)	C2-43	C2-35	BLNA39R5C	18 (9)	C3-116	C3-118
	240	9.0	3	47 ³ / ₈ (1203.3)	BLNA47G3S	17 (8)	C2-50	C2-92	BLNA47G3C	20 (9)	C3-94	C3-93
	480	9.0	3	47 ³ / ₈ (1203.3)	BLNA47G5S	17 (8)	C2-43	C2-35	BLNA47G5C	20 (9)	C3-116	C3-118
	240	12.5	3	63 ⁷ / ₈ (1622.4)	BLNA63R3S	20 (9)	C2-236	C2-214	BLNA63R3C	23 (11)	C3-114	C3-115
	480	12.5	3	63 ⁷ / ₈ (1622.4)	BLNA63R5S	20 (9)	C2-43	C2-35	BLNA63R5C	23 (11)	C3-116	C3-118
	240	15.0	3	76 ³ / ₈ (1939.9)	BLNA76G3S	23 (11)	C2-236	C2-214	BLNA76G3C	26 (12)	C3-114	C3-115
	480	15.0	3	76 ³ / ₈ (1939.9)	BLNA76G5S	23 (11)	C2-43	C2-35	BLNA76G5C	26 (12)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

⑥ Can be rewired wye to produce 1/3 of the original kW and watt density (3-phase only)

Immersion Heaters



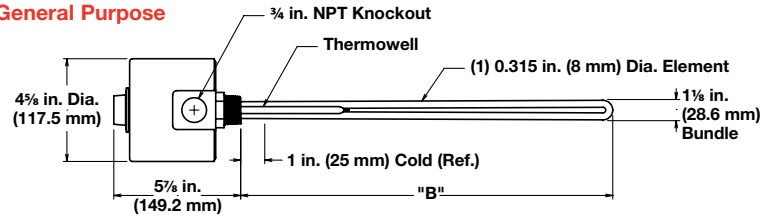
WATROD and FIREBAR Screw Plug Immersion Heaters



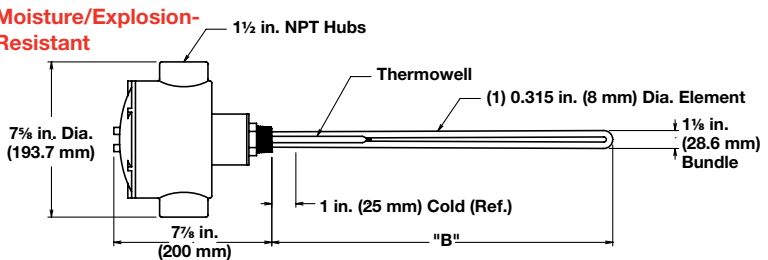
Application: Lightweight Oils and Heat Transfer Oils

- 1 inch NPT screw plug
- WATROD elements
- With thermostat (SPST), Type 2 or 3
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 2 (30 to 250°F)			Type 3 (175 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in ² Steel Plug 1-Steel Element (3.6 W/cm ²)	120	0.25	1	6 1/2 (165)	3 (2)	BCS6J1S2	C/F	C/F	BCS6J1S3	C/F	C/F
	240	0.25	1	6 1/2 (165)	3 (2)	BCS6J10S2	C/F	C/F	BCS6J10S3	C/F	C/F
	120	0.35	1	9 1/4 (235)	4 (2)	BCS9E1S2	C/F	C/F	BCS9E1S3	C/F	C/F
	240	0.35	1	9 1/4 (235)	4 (2)	BCS9E10S2	C/F	C/F	BCS9E10S3	C/F	C/F
	120	0.50	1	9 3/8 (238)	4 (2)	BCS9G1S2	C/F	C/F	BCS9G1S3	C/F	C/F
	240	0.50	1	9 3/8 (238)	4 (2)	BCS9G10S2	C/F	C/F	BCS9G10S3	C/F	C/F
	120	0.75	1	13 1/2 (343)	5 (3)	BCS13J1S2	C/F	C/F	BCS13J1S3	C/F	C/F
	240	0.75	1	13 1/2 (343)	5 (3)	BCS13J10S2	C/F	C/F	BCS13J10S3	C/F	C/F
	120	1.00	1	16 3/4 (426)	6 (3)	BCS16N1S2	C/F	C/F	BCS16N1S3	C/F	C/F
	240	1.00	1	16 3/4 (426)	6 (3)	BCS16N10S2	C/F	C/F	BCS16N10S3	C/F	C/F
	120	1.50	1	23 3/4 (603)	7 (4)	BCS23N1S2	C/F	C/F	BCS23N1S3	C/F	C/F
	240	1.50	1	23 3/4 (603)	7 (4)	BCS23N10S2	C/F	C/F	BCS23N10S3	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
23 W/in ² Steel Plug 1-Steel Element (3.6 W/cm ²)	120	0.25	1	6 1/2 (165)	3 (2)	BCS6J1C2	C/F	C/F	BCS6J1C3	C/F	C/F
	240	0.25	1	6 1/2 (165)	3 (2)	BCS6J10C2	C/F	C/F	BCS6J10C3	C/F	C/F
	120	0.35	1	9 1/4 (235)	4 (2)	BCS9E1C2	C/F	C/F	BCS9E1C3	C/F	C/F
	240	0.35	1	9 1/4 (235)	4 (2)	BCS9E10C2	C/F	C/F	BCS9E10C3	C/F	C/F
	120	0.50	1	9 3/8 (238)	4 (2)	BCS9G1C2	C/F	C/F	BCS9G1C3	C/F	C/F
	240	0.50	1	9 3/8 (238)	4 (2)	BCS9G10C2	C/F	C/F	BCS9G10C3	C/F	C/F
	120	0.75	1	13 1/2 (343)	5 (3)	BCS13J1C2	C/F	C/F	BCS13J1C3	C/F	C/F
	240	0.75	1	13 1/2 (343)	5 (3)	BCS13J10C2	C/F	C/F	BCS13J10C3	C/F	C/F
	120	1.00	1	16 3/4 (426)	6 (3)	BCS16N1C2	C/F	C/F	BCS16N1C3	C/F	C/F
	240	1.00	1	16 3/4 (426)	6 (3)	BCS16N10C2	C/F	C/F	BCS16N10C3	C/F	C/F
	120	1.50	1	23 3/4 (603)	7 (4)	BCS23N1C2	C/F	C/F	BCS23N1C3	C/F	C/F
	240	1.50	1	23 3/4 (603)	7 (4)	BCS23N10C2	C/F	C/F	BCS23N10C3	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

Immersion Heaters



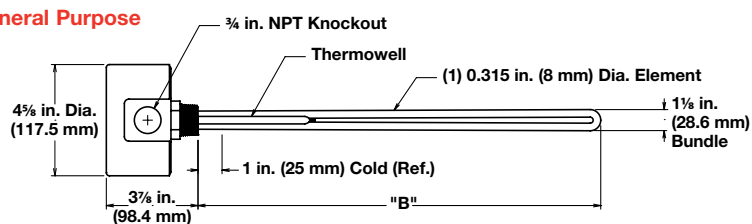
WATROD and FIREBAR Screw Plug Immersion Heaters



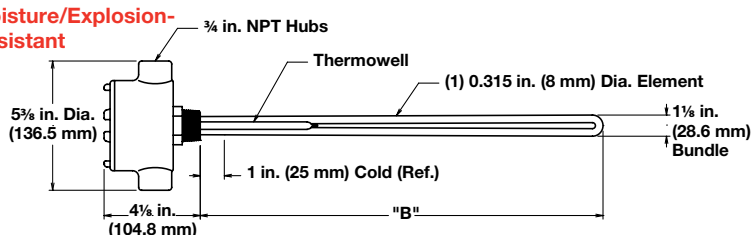
Application: Lightweight Oils and Heat Transfer Oils

- 1 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure
(suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
23 W/in² Steel Plug 1-Steel Element (3.6 W/cm²)	120	0.25	1	6 1/2 (165)	BCS6J1S	3 (2)	C1-15	C1-12	BCS6J1C	6 (3)	C/F	C/F
	240	0.25	1	6 1/2 (165)	BCS6J10S	3 (2)	C1-17	C1-13	BCS6J10C	6 (3)	C/F	C/F
	120	0.35	1	9 1/4 (235)	BCS9E1S	4 (2)	C1-15	C1-12	BCS9E1C	7 (4)	C/F	C/F
	240	0.35	1	9 1/4 (235)	BCS9E10S	4 (2)	C1-17	C1-13	BCS9E10C	7 (4)	C/F	C/F
	120	0.50	1	9 3/8 (238)	BCS9G1S	4 (2)	C1-15	C1-12	BCS9G1C	7 (4)	C/F	C/F
	240	0.50	1	9 3/8 (238)	BCS9G10S	4 (2)	C1-17	C1-13	BCS9G10C	7 (4)	C/F	C/F
	120	0.75	1	13 1/2 (343)	BCS13J1S	5 (3)	C1-15	C1-12	BCS13J1C	8 (4)	C/F	C/F
	240	0.75	1	13 1/2 (343)	BCS13J10S	5 (3)	C1-17	C1-13	BCS13J10C	8 (4)	C/F	C/F
	120	1.00	1	16 3/4 (426)	BCS16N1S	6 (3)	C1-15	C1-12	BCS16N1C	9 (4)	C/F	C/F
	240	1.00	1	16 3/4 (426)	BCS16N10S	6 (3)	C1-17	C1-13	BCS16N10C	9 (4)	C/F	C/F
	120	1.50	1	23 3/4 (603)	BCS23N1S	7 (4)	C1-15	C1-12	BCS23N1C	10 (5)	C/F	C/F
	240	1.50	1	23 3/4 (603)	BCS23N10S	7 (4)	C1-17	C1-13	BCS23N10C	10 (5)	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



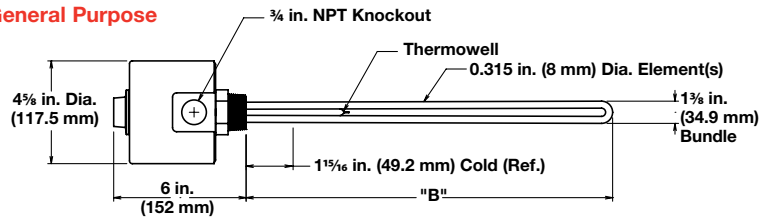
WATROD and FIREBAR Screw Plug Immersion Heaters



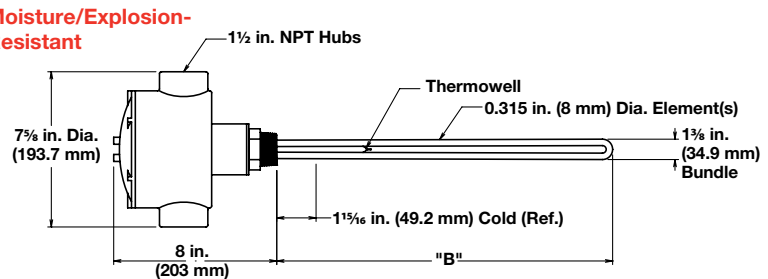
Application: Lightweight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
- WATROD elements
- With thermostat (SPST), Type 2 or 3
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 2 (30 to 250°F)			Type 3 (175 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/240	0.50	1	6 ³ / ₈ (161.9)	4 (2)	BES6G6S2	C/F	C/F	BES6G6S3	C/F	C/F
	120/240	0.50	1	7 ³ / ₈ (187.3)	4 (2)	BES7G6S2	C/F	C/F	BES7G6S3	C/F	C/F
	120/240	0.70	1	8 ⁷ / ₈ (225.4)	5 (3)	BES8R6S2	C/F	C/F	BES8R6S3	C/F	C/F
	120/240	0.75	1	10 ¹ / ₁₆ (255.6)	5 (3)	BES10B6S2	C/F	C/F	BES10B6S3	C/F	C/F
	120/240	1.00	1	12 ³ / ₄ (324.0)	6 (3)	BES12N6S2	C/F	C/F	BES12N6S3	C/F	C/F
	120/240	1.50	1	19 ³ / ₈ (492.1)	7 (4)	BES19G6S2	C/F	C/F	BES19G6S3	C/F	C/F
	120/240	2.00	1	25 ³ / ₈ (644.5)	8 (4)	BES25G6S2	C/F	C/F	BES25G6S3	C/F	C/F
	120/240	3.00	1	36 ⁷ / ₈ (936.6)	9 (4)	BES36R6S2	C/F	C/F	BES36R6S3	C/F	C/F
						Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/240	0.50	1	6 ³ / ₈ (161.9)	8 (4)	BES6G6C2	C/F	C/F	BES6G6C3	C/F	C/F
	120/240	0.50	1	7 ³ / ₈ (187.3)	8 (4)	BES7G6C2	C/F	C/F	BES7G6C3	C/F	C/F
	120/240	0.70	1	8 ⁷ / ₈ (225.6)	9 (4)	BES8R6C2	C/F	C/F	BES8R6C3	C/F	C/F
	120/240	0.75	1	10 ¹ / ₁₆ (256.0)	9 (4)	BES10B6C2	C/F	C/F	BES10B6C3	C/F	C/F
	120/240	1.00	1	12 ³ / ₄ (324.0)	10 (5)	BES12N6C2	C/F	C/F	BES12N6C3	C/F	C/F
	120/240	1.50	1	19 ³ / ₈ (492.1)	11 (5)	BES19G6C2	C/F	C/F	BES19G6C3	C/F	C/F
	120/240	2.00	1	25 ³ / ₈ (644.5)	12 (6)	BES25G6C2	C/F	C/F	BES25G6C3	C/F	C/F
	120/240	3.00	1	36 ⁷ / ₈ (936.7)	13 (6)	BES36R6C2	C/F	C/F	BES36R6C3	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

④ Wired for higher voltage

⑤ No third party recognition

Immersion Heaters



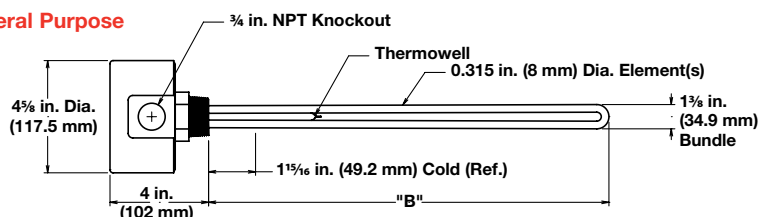
WATROD and FIREBAR Screw Plug Immersion Heaters



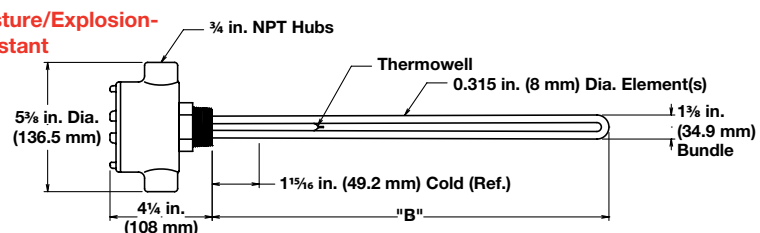
Application: Lightweight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	“B” Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number	240V WATCONNECT Part Number	Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number			
					General Purpose Enclosure		Type J T/C	Type K T/C			Moisture/Explosion- Resistant Enclosure	Type J T/C	Type K T/C	
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/ 240	0.50	1	6³⁄₈ (161.9)	BES6G6S	4 (2)	C1-15	C1-12	C1-17	C1-13	BES6G6C	7 (4)	C/F	C/F
	120/ 240	0.50	1	7³⁄₈ (187.3)	BES7G6S	4 (2)	C1-15	C1-12	C1-17	C1-13	BES7G6C	7 (4)	C/F	C/F
	120/ 240	0.70	1	8⁷⁄₈ (225.4)	BES8R6S	5 (3)	C1-15	C1-12	C1-17	C1-13	BES8R6C	8 (4)	C/F	C/F
	120/ 240	0.75	1	10¹⁄₁₆ (255.6)	BES10B6S	5 (3)	C1-15	C1-12	C1-17	C1-13	BES10B6C	8 (4)	C/F	C/F
	120/ 240	1.00	1	12³⁄₄ (324.0)	BES12N6S	6 (3)	C1-15	C1-12	C1-17	C1-13	BES12N6C	9 (4)	C/F	C/F
	120/ 240	1.50	1	19³⁄₈ (492.1)	BES19G6S	7 (4)	C1-15	C1-12	C1-17	C1-13	BES19G6C	10 (5)	C/F	C/F
	120/ 240	2.00	1	25³⁄₈ (644.5)	BES25G6S	8 (4)	C1-15	C1-12	C1-17	C1-13	BES25G6C	11 (5)	C/F	C/F
	120/ 240	3.00	1	36⁷⁄₈ (936.6)	BES36R6S	9 (4)	C1-15	C1-12	C1-17	C1-13	BES36R6C	12 (6)	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

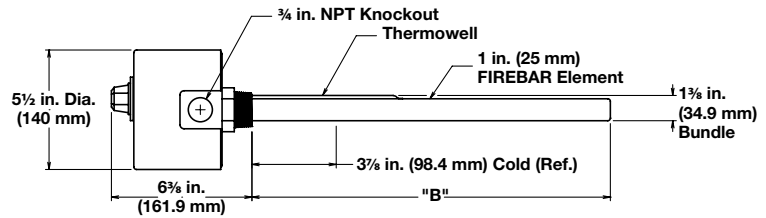


Application: Lightweight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- With thermostat (DPST), Type 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller, please see following pages for available heaters without thermostats

- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
30 W/in² ③ 304 SS Plug 1-Alloy 800 Element (4.7 W/cm²)	240	1.70	3	16 1/8 (409.6)	8 (4)	BDNF16G12S5A	C/F	C/F	BDNF16G12S7A	C/F	C/F
	480	1.70	3	16 1/8 (409.6)	8 (4)	BDNF16G13S5A	C/F	C/F	BDNF16G13S7A	C/F	C/F
	240	2.20	3	19 1/8 (485.8)	9 (4)	BDNF19G12S5A	C/F	C/F	BDNF19G12S7A	C/F	C/F
	480	2.20	3	19 1/8 (485.8)	9 (4)	BDNF19G13S5A	C/F	C/F	BDNF19G13S7A	C/F	C/F
	240	2.80	3	24 3/8 (619.1)	10 (5)	BDNF24L12S5A	C/F	C/F	BDNF24L12S7A	C/F	C/F
	480	2.80	3	24 3/8 (619.1)	10 (5)	BDNF24L13S5A	C/F	C/F	BDNF24L13S7A	C/F	C/F
	240	3.50	3	29 5/8 (752.5)	11 (5)	BDNF29R12S5A	C/F	C/F	BDNF29R12S7A	C/F	C/F
	480	3.50	3	29 5/8 (752.5)	11 (5)	BDNF29R13S5A	C/F	C/F	BDNF29R13S7A	C/F	C/F
	240	4.25	3	34 5/8 (879.5)	12 (6)	BDNF34R12S5A	C/F	C/F	BDNF34R12S7A	C/F	C/F
	480	4.25	3	34 5/8 (879.5)	12 (6)	BDNF34R13S5A	C/F	C/F	BDNF34R13S7A	C/F	C/F
	240	5.70	3	45 1/8 (1146.2)	14 (7)	BDNF45G12S5A	C/F	C/F	BDNF45G12S7A	C/F	C/F
	480	5.70	3	45 1/8 (1146.2)	14 (7)	BDNF45G13S5A	C/F	C/F	BDNF45G13S7A	C/F	C/F
	240	7.20	3	55 5/8 (1412.9)	16 (8)	BDNF55R12S5A	C/F	C/F	BDNF55R12S7A	C/F	C/F
23 W/in² ⑧ 304 SS Plug 1-Alloy 800 Element (3.6 W/cm²)	240	1.25	3	16 1/8 (409.6)	8 (4)	BDNF16G20S5A	C/F	C/F	BDNF16G20S7A	C/F	C/F
	240	1.65	3	19 1/8 (485.8)	9 (4)	BDNF19G20S5A	C/F	C/F	BDNF19G20S7A	C/F	C/F
	240	2.15	3	24 3/8 (619.1)	10 (5)	BDNF24L20S5A	C/F	C/F	BDNF24L20S7A	C/F	C/F
	480	2.15	3	24 3/8 (619.1)	10 (5)	BDNF24L19S5A	C/F	C/F	BDNF24L19S7A	C/F	C/F
	240	2.65	3	29 5/8 (752.5)	11 (5)	BDNF29R20S5A	C/F	C/F	BDNF29R20S7A	C/F	C/F
	480	2.65	3	29 5/8 (752.5)	11 (5)	BDNF29R19S5A	C/F	C/F	BDNF29R19S7A	C/F	C/F
	240	3.20	3	34 5/8 (879.5)	12 (6)	BDNF34R20S5A	C/F	C/F	BDNF34R20S7A	C/F	C/F
	480	3.20	3	34 5/8 (879.5)	12 (6)	BDNF34R19S5A	C/F	C/F	BDNF34R19S7A	C/F	C/F
	240	4.25	3	45 1/8 (1146.2)	14 (7)	BDNF45G20S5A	C/F	C/F	BDNF45G20S7A	C/F	C/F
	480	4.25	3	45 1/8 (1146.2)	14 (7)	BDNF45G19S5A	C/F	C/F	BDNF45G19S7A	C/F	C/F
	240	5.40	3	55 5/8 (1412.9)	16 (8)	BDNF55R20S5A	C/F	C/F	BDNF55R20S7A	C/F	C/F
	480	5.40	3	55 5/8 (1412.9)	16 (8)	BDNF55R19S5A	C/F	C/F	BDNF55R19S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

- ③ Wired for 3-phase operation only
- ⑧ Can be wired for 1-phase operation

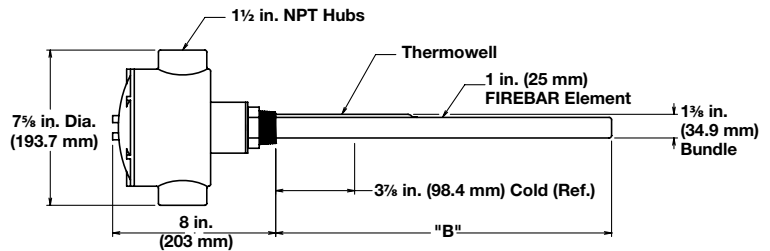
Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Lightweight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
 - FIREBAR elements
 - With thermostat (DPST), Type 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
30 W/in² ③ 304 SS Plug 1-Alloy 800 Element (4.7 W/cm²)	240	1.70	3	16 1/8 (409.6)	11 (5)	BDNF16G12C5A	C/F	C/F	BDNF16G12C7A	C/F	C/F
	480	1.70	3	16 1/8 (409.6)	11 (5)	BDNF16G13C5A	C/F	C/F	BDNF16G13C7A	C/F	C/F
	240	2.20	3	19 1/8 (485.8)	12 (6)	BDNF19G12C5A	C/F	C/F	BDNF19G12C7A	C/F	C/F
	480	2.20	3	19 1/8 (485.8)	12 (6)	BDNF19G13C5A	C/F	C/F	BDNF19G13C7A	C/F	C/F
	240	2.80	3	24 3/8 (619.1)	13 (6)	BDNF24L12C5A	C/F	C/F	BDNF24L12C7A	C/F	C/F
	480	2.80	3	24 3/8 (619.1)	13 (6)	BDNF24L13C5A	C/F	C/F	BDNF24L13C7A	C/F	C/F
	240	3.50	3	29 5/8 (752.5)	14 (7)	BDNF29R12C5A	C/F	C/F	BDNF29R12C7A	C/F	C/F
	480	3.50	3	29 5/8 (752.5)	14 (7)	BDNF29R13C5A	C/F	C/F	BDNF29R13C7A	C/F	C/F
	240	4.25	3	34 5/8 (879.5)	15 (7)	BDNF34R12C5A	C/F	C/F	BDNF34R12C7A	C/F	C/F
	480	4.25	3	34 5/8 (879.5)	15 (7)	BDNF34R13C5A	C/F	C/F	BDNF34R13C7A	C/F	C/F
	240	5.70	3	45 1/8 (1146.2)	17 (8)	BDNF45G12C5A	C/F	C/F	BDNF45G12C7A	C/F	C/F
	480	5.70	3	45 1/8 (1146.2)	17 (8)	BDNF45G13C5A	C/F	C/F	BDNF45G13C7A	C/F	C/F
23 W/in² ⑧ 304 SS Plug 1-Alloy 800 Element (3.6 W/cm²)	240	7.20	3	55 5/8 (1412.9)	19 (9)	BDNF55R12C5A	C/F	C/F	BDNF55R12C7A	C/F	C/F
	240	1.25	3	16 1/8 (409.6)	11 (5)	BDNF16G20C5A	C/F	C/F	BDNF16G20C7A	C/F	C/F
	240	1.65	3	19 1/8 (485.8)	12 (6)	BDNF19G20C5A	C/F	C/F	BDNF19G20C7A	C/F	C/F
	240	2.15	3	24 3/8 (619.1)	13 (6)	BDNF24L20C5A	C/F	C/F	BDNF24L20C7A	C/F	C/F
	480	2.15	3	24 3/8 (619.1)	13 (6)	BDNF24L19C5A	C/F	C/F	BDNF24L19C7A	C/F	C/F
	240	2.65	3	29 5/8 (752.5)	14 (7)	BDNF29R20C5A	C/F	C/F	BDNF29R20C7A	C/F	C/F
	480	2.65	3	29 5/8 (752.5)	14 (7)	BDNF29R19C5A	C/F	C/F	BDNF29R19C7A	C/F	C/F
	240	3.20	3	34 5/8 (879.5)	15 (7)	BDNF34R20C5A	C/F	C/F	BDNF34R20C7A	C/F	C/F
	480	3.20	3	34 5/8 (879.5)	15 (7)	BDNF34R19C5A	C/F	C/F	BDNF34R19C7A	C/F	C/F
	240	4.25	3	45 1/8 (1146.2)	17 (8)	BDNF45G20C5A	C/F	C/F	BDNF45G20C7A	C/F	C/F
	480	4.25	3	45 1/8 (1146.2)	17 (8)	BDNF45G19C5A	C/F	C/F	BDNF45G19C7A	C/F	C/F
	240	5.40	3	55 5/8 (1412.9)	19 (9)	BDNF55R20C5A	C/F	C/F	BDNF55R20C7A	C/F	C/F
	480	5.40	3	55 5/8 (1412.9)	19 (9)	BDNF55R19C5A	C/F	C/F	BDNF55R19C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

- ③ Wired for 3-phase operation only
- ⑤ No third party recognition
- ⑧ Can be wired for 1-phase operation

Immersion Heaters



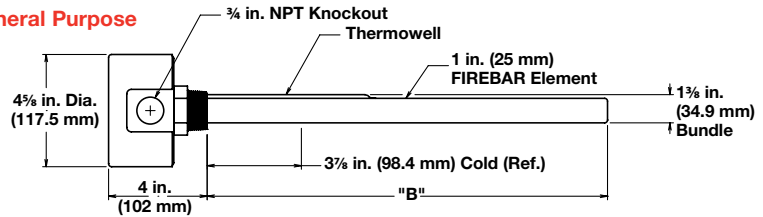
WATROD and FIREBAR Screw Plug Immersion Heaters



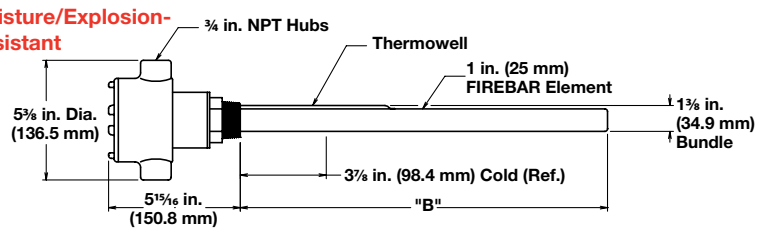
Application: Lightweight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
30 W/in² ③ 304 SS Plug 1-Alloy 800 Element (4.7 W/cm²)	240	1.70	3	16 1/8 (409.6)	BDNF16G12S	7 (4)	C2-50	C2-92	BDNF16G12C	10 (5)	C3-94	C3-93
	480	1.70	3	16 1/8 (409.6)	BDNF16G13S	7 (4)	C2-43	C2-35	BDNF16G13C	10 (5)	C3-116	C3-118
	240	2.20	3	19 1/8 (485.8)	BDNF19G12S	8 (4)	C2-50	C2-92	BDNF19G12C	11 (5)	C3-94	C3-93
	480	2.20	3	19 1/8 (485.8)	BDNF19G13S	8 (4)	C2-43	C2-35	BDNF19G13C	11 (5)	C3-116	C3-118
	240	2.80	3	24 3/8 (619.1)	BDNF24L12S	9 (4)	C2-50	C2-92	BDNF24L12C	12 (6)	C3-94	C3-93
	480	2.80	3	24 3/8 (619.1)	BDNF24L13S	9 (4)	C2-43	C2-35	BDNF24L13C	12 (6)	C3-116	C3-118
	240	3.50	3	29 5/8 (752.5)	BDNF29R12S	10 (5)	C2-50	C2-92	BDNF29R12C	13 (6)	C3-94	C3-93
	480	3.50	3	29 5/8 (752.5)	BDNF29R13S	10 (5)	C2-43	C2-35	BDNF29R13C	13 (6)	C3-116	C3-118
	240	4.25	3	34 5/8 (879.5)	BDNF34R12S	11 (5)	C2-50	C2-92	BDNF34R12C	14 (7)	C3-94	C3-93
	480	4.25	3	34 5/8 (879.5)	BDNF34R13S	11 (5)	C2-43	C2-35	BDNF34R13C	14 (7)	C3-116	C3-118
	240	5.70	3	45 1/8 (1146.2)	BDNF45G12S	13 (6)	C2-50	C2-92	BDNF45G12C	16 (8)	C3-94	C3-93
	480	5.70	3	45 1/8 (1146.2)	BDNF45G13S	13 (6)	C2-43	C2-35	BDNF45G13C	16 (8)	C3-116	C3-118
	240	7.20	3	55 5/8 (1412.9)	BDNF55R12S	15 (7)	C2-50	C2-92	BDNF55R12C	18 (9)	C3-94	C3-93
	480	7.20	3	55 5/8 (1412.9)	BDNF55R13S	15 (7)	C2-43	C2-35	BDNF55R13C	18 (9)	C3-116	C3-118
23 W/in² ⑧ 304 SS Plug 1-Alloy 800 Element (3.6 W/cm²)	240	1.25	3	16 1/8 (409.6)	BDNF16G20S	7 (4)	C2-50	C2-92	BDNF16G20C	10 (5)	C3-94	C3-93
	240	1.65	3	19 1/8 (485.8)	BDNF19G20S	8 (4)	C2-50	C2-92	BDNF19G20C	11 (5)	C3-94	C3-93
	240	2.15	3	24 3/8 (619.1)	BDNF24L20S	9 (4)	C2-50	C2-92	BDNF24L20C	12 (6)	C3-94	C3-93
	480	2.15	3	24 3/8 (619.1)	BDNF24L19S	9 (4)	C2-43	C2-35	BDNF24L19C	12 (6)	C3-116	C3-118
	240	2.65	3	29 5/8 (752.5)	BDNF29R20S	10 (5)	C2-50	C2-92	BDNF29R20C	13 (6)	C3-94	C3-93
	480	2.65	3	29 5/8 (752.5)	BDNF29R19S	10 (5)	C2-43	C2-35	BDNF29R19C	13 (6)	C3-116	C3-118
	240	3.20	3	34 5/8 (879.5)	BDNF34R20S	11 (5)	C2-50	C2-92	BDNF34R20C	14 (7)	C3-94	C3-93
	480	3.20	3	34 5/8 (879.5)	BDNF34R19S	11 (5)	C2-43	C2-35	BDNF34R19C	14 (7)	C3-116	C3-118
	240	4.25	3	45 1/8 (1146.2)	BDNF45G20S	13 (6)	C2-50	C2-92	BDNF45G20C	16 (8)	C3-94	C3-93
	480	4.25	3	45 1/8 (1146.2)	BDNF45G19S	13 (6)	C2-43	C2-35	BDNF45G19C	16 (8)	C3-116	C3-118
	240	5.40	3	55 5/8 (1412.9)	BDNF55R20S	15 (7)	C2-50	C2-92	BDNF55R20C	18 (9)	C3-94	C3-93
	480	5.40	3	55 5/8 (1412.9)	BDNF55R19S	15 (7)	C2-43	C2-35	BDNF55R19C	18 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

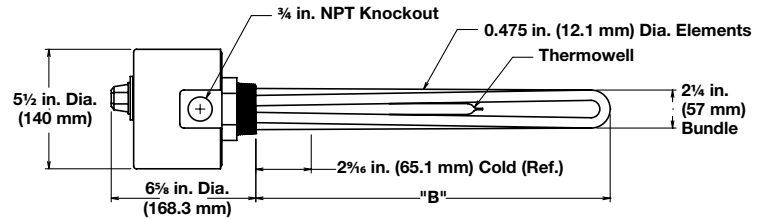


Application: Lightweight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/240	1.0	1	9 1/2 (241)	5 (3)	BGS79J6S4	C/F	C/F	BGS79J6S5A	C/F	C/F	BGS79J6S7A	C/F	C/F
	240/480	1.0	1	9 1/2 (241)	5 (3)	BGS79J7S4	C/F	C/F	BGS79J7S5A	C/F	C/F	BGS79J7S7A	C/F	C/F
	120/240	1.5	1	13 1/2 (343)	6 (3)	BGS713J6S4	C/F	C/F	BGS713J6S5A	C/F	C/F	BGS713J6S7A	C/F	C/F
	240/480	1.5	1	13 1/2 (343)	6 (3)	BGS713J7S4	C/F	C/F	BGS713J7S5A	C/F	C/F	BGS713J7S7A	C/F	C/F
	120/240	2.0	1	17 1/2 (445)	7 (4)	BGS717J6S4	C/F	C/F	BGS717J6S5A	C/F	C/F	BGS717J6S7A	C/F	C/F
	240/480	2.0	1	17 1/2 (445)	7 (4)	BGS717J7S4	C/F	C/F	BGS717J7S5A	C/F	C/F	BGS717J7S7A	C/F	C/F
	120/240	2.5	1	20 1/2 (521)	8 (4)	BGS720J6S4	C/F	C/F	BGS720J6S5A	C/F	C/F	BGS720J6S7A	C/F	C/F
	240/480	2.5	1	20 1/2 (521)	8 (4)	BGS720J7S4	C/F	C/F	BGS720J7S5A	C/F	C/F	BGS720J7S7A	C/F	C/F
	120/240	3.0	1	25 (635)	8 (4)	BGS725A6S4	C/F	C/F	BGS725A6S5A	C/F	C/F	BGS725A6S7A	C/F	C/F
	240/480	3.0	1	25 (635)	8 (4)	BGS725A7S4	C/F	C/F	BGS725A7S5A	C/F	C/F	BGS725A7S7A	C/F	C/F
	120/240	4.0	1	32 1/2 (826)	9 (4)	BGS732J6S4	C/F	C/F	BGS732J6S5A	C/F	C/F	BGS732J6S7A	C/F	C/F
	120/240	5.0	1	40 (1016)	10 (5)	BGS740A6S4	C/F	C/F	BGS740A6S5A	C/F	C/F	BGS740A6S7A	C/F	C/F
23 W/in² Steel Plug 3-Steel Elements (3.6 W/cm²)	120	1.5	1	9 1/2 (241)	6 (3)	BHS79J1S4	C/F	C/F	BHS79J1S5A	C/F	C/F	BHS79J1S7A	C/F	C/F
	240	1.5	3	9 1/2 (241)	6 (3)	BHS79J3S4	C/F	C/F	BHS79J3S5A	C/F	C/F	BHS79J3S7A	C/F	C/F
	480	1.5	3	9 1/2 (241)	6 (3)	BHS79J13S4	C/F	C/F	BHS79J13S5A	C/F	C/F	BHS79J13S7A	C/F	C/F
	240	3.0	3	17 1/2 (445)	8 (4)	BHS717J3S4	C/F	C/F	BHS717J3S5A	C/F	C/F	BHS717J3S7A	C/F	C/F
	480	3.0	3	17 1/2 (445)	8 (4)	BHS717J5S4	C/F	C/F	BHS717J5S5A	C/F	C/F	BHS717J5S7A	C/F	C/F
	240	4.5	3	25 (635)	10 (5)	BHS725A3S4	C/F	C/F	BHS725A3S5A	C/F	C/F	BHS725A3S7A	C/F	C/F
	480	4.5	3	25 (635)	10 (5)	BHS725A5S4	C/F	C/F	BHS725A5S5A	C/F	C/F	BHS725A5S7A	C/F	C/F
	240	6.0	3	32 1/2 (826)	13 (6)	BHS732J3S4	C/F	C/F	BHS732J3S5A	C/F	C/F	BHS732J3S7A	C/F	C/F
	480	6.0	3	32 1/2 (826)	13 (6)	BHS732J5S4	C/F	C/F	BHS732J5S5A	C/F	C/F	BHS732J5S7A	C/F	C/F
	240	7.5	3	40 (1016)	14 (7)	BHS740A3S4	C/F	C/F	BHS740A3S5A	C/F	C/F	BHS740A3S7A	C/F	C/F
	480	7.5	3	40 (1016)	14 (7)	BHS740A5S4	C/F	C/F	BHS740A5S5A	C/F	C/F	BHS740A5S7A	C/F	C/F
	240	9.0	3	47 1/2 (1207)	14 (7)	BHS747J3S4	C/F	C/F	BHS747J3S5A	C/F	C/F	BHS747J3S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

C/F - Contact factory, go to www.watlow.com/en/contact-us

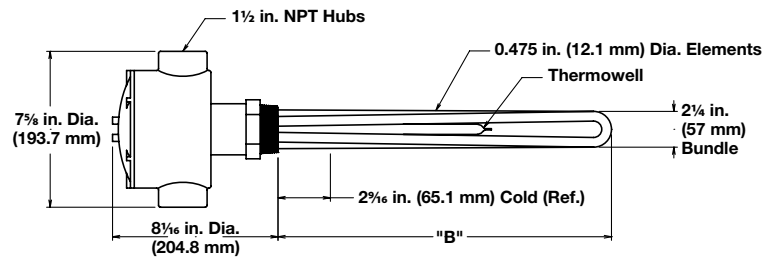
WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Lightweight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/ 240	1.0	1	9 1/2 (241)	8 (4)	BGS79J6C4	C/F	C/F	BGS79J6C5A	C/F	C/F	BGS79J6C7A	C/F	C/F
	240/ 480	1.0	1	9 1/2 (241)	8 (4)	BGS79J7C4	C/F	C/F	BGS79J7C5A	C/F	C/F	BGS79J7C7A	C/F	C/F
	120/ 240	1.5	1	13 1/2 (343)	9 (4)	BGS713J6C4	C/F	C/F	BGS713J6C5A	C/F	C/F	BGS713J6C7A	C/F	C/F
	240/ 480	1.5	1	13 1/2 (343)	9 (4)	BGS713J7C4	C/F	C/F	BGS713J7C5A	C/F	C/F	BGS713J7C7A	C/F	C/F
	120/ 240	2.0	1	17 1/2 (445)	10 (5)	BGS717J6C4	C/F	C/F	BGS717J6C5A	C/F	C/F	BGS717J6C7A	C/F	C/F
	240/ 480	2.0	1	17 1/2 (445)	10 (5)	BGS717J7C4	C/F	C/F	BGS717J7C5A	C/F	C/F	BGS717J7C7A	C/F	C/F
	120/ 240	2.5	1	20 1/2 (521)	11 (5)	BGS720J6C4	C/F	C/F	BGS720J6C5A	C/F	C/F	BGS720J6C7A	C/F	C/F
	240/ 480	2.5	1	20 1/2 (521)	11 (5)	BGS720J7C4	C/F	C/F	BGS720J7C5A	C/F	C/F	BGS720J7C7A	C/F	C/F
	120/ 240	3.0	1	25 (635)	11 (5)	BGS725A6C4	C/F	C/F	BGS725A6C5A	C/F	C/F	BGS725A6C7A	C/F	C/F
	240/ 480	3.0	1	25 (635)	11 (5)	BGS725A7C4	C/F	C/F	BGS725A7C5A	C/F	C/F	BGS725A7C7A	C/F	C/F
	120/ 240	4.0	1	32 1/2 (826)	12 (6)	BGS732J6C4	C/F	C/F	BGS732J6C5A	C/F	C/F	BGS732J6C7A	C/F	C/F
	120/ 240	5.0	1	40 (1016)	13 (6)	BGS740A6C4	C/F	C/F	BGS740A6C5A	C/F	C/F	BGS740A6C7A	C/F	C/F
23 W/in² Steel Plug 3-Steel Elements (3.6 W/cm²)	120	1.5	1	9 1/2 (241)	9 (4)	BHS79J1C4	C/F	C/F	BHS79J1C5A	C/F	C/F	BHS79J1C7A	C/F	C/F
	240	1.5	3	9 1/2 (241)	9 (4)	BHS79J3C4	C/F	C/F	BHS79J3C5A	C/F	C/F	BHS79J3C7A	C/F	C/F
	480	1.5	3	9 1/2 (241)	9 (4)	BHS79J13C4	C/F	C/F	BHS79J13C5A	C/F	C/F	BHS79J13C7A	C/F	C/F
	240	3.0	3	17 1/2 (445)	11 (5)	BHS717J3C4	C/F	C/F	BHS717J3C5A	C/F	C/F	BHS717J3C7A	C/F	C/F
	480	3.0	3	17 1/2 (445)	11 (5)	BHS717J5C4	C/F	C/F	BHS717J5C5A	C/F	C/F	BHS717J5C7A	C/F	C/F
	240	4.5	3	25 (635)	13 (6)	BHS725A3C4	C/F	C/F	BHS725A3C5A	C/F	C/F	BHS725A3C7A	C/F	C/F
	480	4.5	3	25 (635)	13 (6)	BHS725A5C4	C/F	C/F	BHS725A5C5A	C/F	C/F	BHS725A5C7A	C/F	C/F
	240	6.0	3	32 1/2 (826)	16 (8)	BHS732J3C4	C/F	C/F	BHS732J3C5A	C/F	C/F	BHS732J3C7A	C/F	C/F
	480	6.0	3	32 1/2 (826)	16 (8)	BHS732J5C4	C/F	C/F	BHS732J5C5A	C/F	C/F	BHS732J5C7A	C/F	C/F
	240	7.5	3	40 (1016)	17 (8)	BHS740A3C4	C/F	C/F	BHS740A3C5A	C/F	C/F	BHS740A3C7A	C/F	C/F
	480	7.5	3	40 (1016)	17 (8)	BHS740A5C4	C/F	C/F	BHS740A5C5A	C/F	C/F	BHS740A5C7A	C/F	C/F
	240	9.0	3	47 1/2 (1207)	17 (8)	BHS747J3C4	C/F	C/F	BHS747J3C5A	C/F	C/F	BHS747J3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

④ Wired for higher voltage

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters

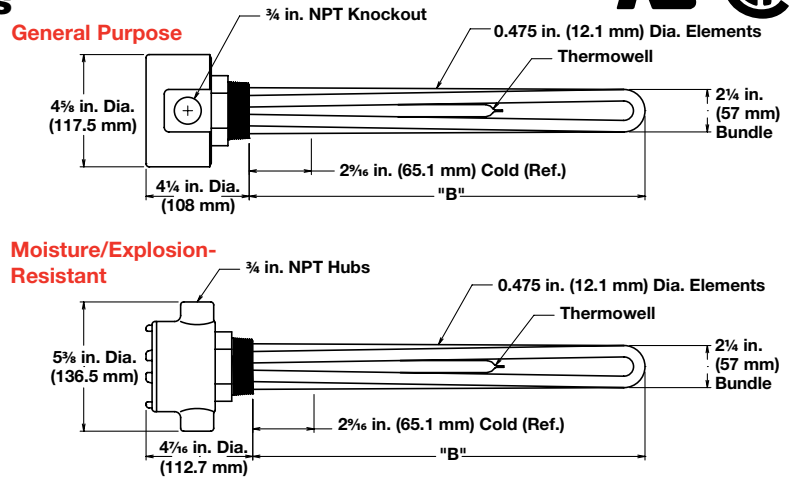


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Lightweight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number		240V WATCONNECT Part Number		480V WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Type J T/C	Type K T/C
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/240	1.0	1	9 1/2 (241)	BGS79J6S	4 (2)	C1-15	C1-12	C1-17	C1-13	N/A	N/A
	240/480	1.0	1	9 1/2 (241)	BGS79J7S	4 (2)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	1.5	1	13 1/2 (343)	BGS713J6S	5 (3)	C1-15	C1-12	C1-17	C1-13	N/A	N/A
	240/480	1.5	1	13 1/2 (343)	BGS713J7S	5 (3)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	2.0	1	17 1/2 (445)	BGS717J6S	6 (3)	C1-15	C1-12	C1-17	C1-13	N/A	N/A
	240/480	2.0	1	17 1/2 (445)	BGS717J7S	6 (3)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	2.5	1	20 1/2 (521)	BGS720J6S	7 (4)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	2.5	1	20 1/2 (521)	BGS720J7S	7 (4)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	3.0	1	25 (635)	BGS725A6S	7 (4)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	3.0	1	25 (635)	BGS725A7S	7 (4)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	4.0	1	32 1/2 (826)	BGS732J6S	8 (4)	C/F	C/F	C1-17	C1-13	N/A	N/A
	240/480	4.0	1	32 1/2 (826)	BGS732J7S	8 (4)	N/A	N/A	C1-17	C1-13	C/F	C/F
	120/240	5.0	1	40 (1016)	BGS740A6S	9 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	5.0	1	40 (1016)	BGS740A7S	9 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	6.0	1	47 1/2 (1207)	BGS747J7S	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
23 W/in² Steel Plug 3-Steel Elements (3.6 W/cm²)	120	1.5	1	9 1/2 (241)	BHS79J1S	5 (3)	C1-15	C1-12	N/A	N/A	N/A	N/A
	240	1.5	3	9 1/2 (241)	BHS79J3S	5 (3)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	1.5	3	9 1/2 (241)	BHS79J13S	5 (3)	N/A	N/A	N/A	N/A	C2-43	C2-35
	120	3.0	1	17 1/2 (445)	BHS717J1S	7 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	3.0	3	17 1/2 (445)	BHS717J3S	7 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	3.0	3	17 1/2 (445)	BHS717J5S	7 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	120	4.5	1	25 (635)	BHS725A1S	9 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	4.5	3	25 (635)	BHS725A3S	9 (4)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	4.5	3	25 (635)	BHS725A5S	9 (4)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	6.0	3	32 1/2 (826)	BHS732J3S	12 (6)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	6.0	3	32 1/2 (826)	BHS732J5S	12 (6)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	7.5	3	40 (1016)	BHS740A3S	13 (6)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	7.5	3	40 (1016)	BHS740A5S	13 (6)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	9.0	3	47 1/2 (1207)	BHS747J3S	13 (6)	N/A	N/A	C2-50	C2-92	N/A	N/A
	480	9.0	3	47 1/2 (1207)	BHS747J5S	13 (6)	N/A	N/A	N/A	N/A	C2-43	C2-35
	240	12.5	3	64 (1626)	BHS764A3S	17 (8)	N/A	N/A	C2-236	C2-214	N/A	N/A
	480	12.5	3	64 (1626)	BHS764A5S	17 (8)	N/A	N/A	N/A	N/A	C2-43	C2-35

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

- ④ Wired for higher voltage
⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

Immersion Heaters

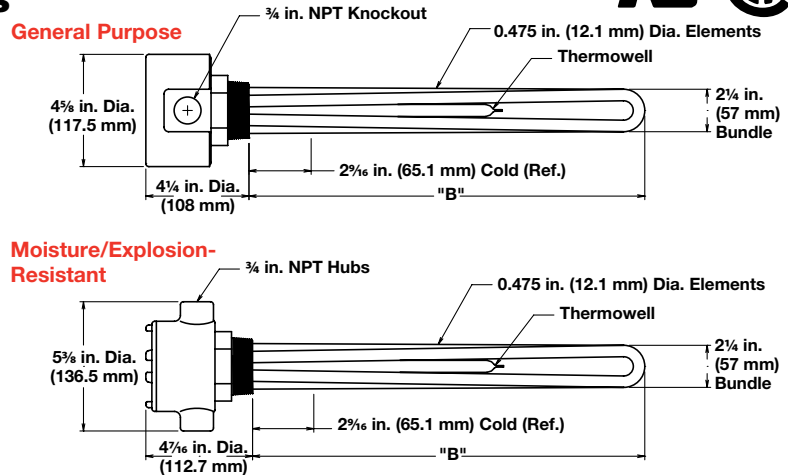


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Lightweight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	120V WATCONNECT Part Number	240V WATCONNECT Part Number	480V WATCONNECT Part Number			
					Moisture/Explosion- Resistant Enclosures		Type J T/C	Type K T/C	Type J T/C	Type K T/C	Type J T/C	Type K T/C
23 W/in² ④ Steel Plug 2-Steel Elements (3.6 W/cm²)	120/240	1.0	1	9½ (241)	BGS79J6C	7 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	1.0	1	9½ (241)	BGS79J7C	7 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	1.5	1	13½ (343)	BGS713J6C	8 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	1.5	1	13½ (343)	BGS713J7C	8 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	2.0	1	17½ (445)	BGS717J6C	9 (4)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	2.0	1	17½ (445)	BGS717J7C	9 (4)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	2.5	1	20½ (521)	BGS720J6C	10 (5)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	2.5	1	20½ (521)	BGS720J7C	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	3.0	1	25 (635)	BGS725A6C	10 (5)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	3.0	1	25 (635)	BGS725A7C	10 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	4.0	1	32½ (826)	BGS732J6C	11 (5)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	4.0	1	32½ (826)	BGS732J7C	11 (5)	N/A	N/A	C/F	C/F	C/F	C/F
	120/240	5.0	1	40 (1016)	BGS740A6C	12 (6)	C/F	C/F	C/F	C/F	N/A	N/A
	240/480	5.0	1	40 (1016)	BGS740A7C	12 (6)	N/A	N/A	C/F	C/F	C/F	C/F
	240/480	6.0	1	47½ (1207)	BGS747J7C	13 (6)	N/A	N/A	C/F	C/F	C/F	C/F
23 W/in² Steel Plug 3-Steel Elements (3.6 W/cm²)	120	1.5	1	9½ (241)	BHS79J1C	8 (4)	C/F	C/F	N/A	N/A	N/A	N/A
	240	1.5	3	9½ (241)	BHS79J3C	8 (4)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	1.5	3	9½ (241)	BHS79J13C	8 (4)	N/A	N/A	N/A	N/A	C3-116	C3-118
	120	3.0	1	17½ (445)	BHS717J1C	10 (5)	C/F	C/F	N/A	N/A	N/A	N/A
	240	3.0	3	17½ (445)	BHS717J3C	10 (5)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	3.0	3	17½ (445)	BHS717J5C	10 (5)	N/A	N/A	N/A	N/A	C3-116	C3-118
	120	4.5	1	25 (635)	BHS725A1C	12 (6)	C/F	C/F	N/A	N/A	N/A	N/A
	240	4.5	3	25 (635)	BHS725A3C	12 (6)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	4.5	3	25 (635)	BHS725A5C	12 (6)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	6.0	3	32½ (826)	BHS732J3C	15 (7)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	6.0	3	32½ (826)	BHS732J5C	15 (7)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	7.5	3	40 (1016)	BHS740A3C	16 (8)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	7.5	3	40 (1016)	BHS740A5C	16 (8)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	9.0	3	47½ (1207)	BHS747J3C	16 (8)	N/A	N/A	C3-94	C3-93	N/A	N/A
	480	9.0	3	47½ (1207)	BHS747J5C	16 (8)	N/A	N/A	N/A	N/A	C3-116	C3-118
	240	12.5	3	64 (1626)	BHS764A3C	20 (9)	N/A	N/A	C3-114	C3-115	N/A	N/A
	480	12.5	3	64 (1626)	BHS764A5C	20 (9)	N/A	N/A	N/A	N/A	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us
N/A - Not available

- ④ Wired for higher voltage
⑤ No third party recognition

Immersion Heaters



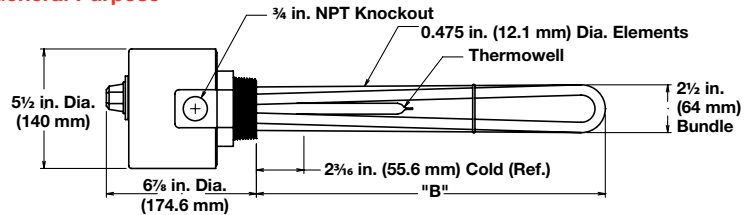
WATROD and FIREBAR Screw Plug Immersion Heaters



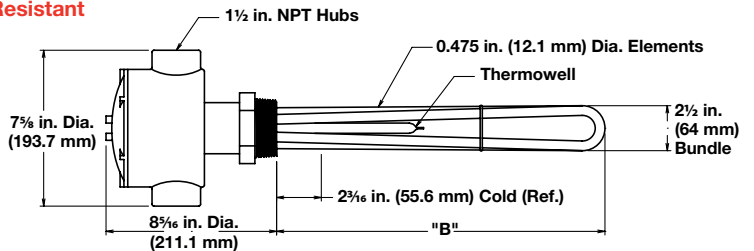
Application: Lightweight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
 - WATROD elements
 - With thermostat (DPST), Type 4, 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- General purpose enclosure
 - Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
23 W/in ² ® Steel Plug 3-Steel Elements (3.6 Wcm ²)	240	3.0	3	17 1/4 (438)	10 (5)	BLS717E3S4	C/F	C/F	BLS717E3S5A	C/F	C/F	BLS717E3S7A	C/F	C/F
	480	3.0	3	17 1/4 (438)	10 (5)	BLS717E5S4	C/F	C/F	BLS717E5S5A	C/F	C/F	BLS717E5S7A	C/F	C/F
	240	4.5	3	24 3/4 (629)	13 (6)	BLS724N3S4	C/F	C/F	BLS724N3S5A	C/F	C/F	BLS724N3S7A	C/F	C/F
	480	4.5	3	24 3/4 (629)	13 (6)	BLS724N5S4	C/F	C/F	BLS724N5S5A	C/F	C/F	BLS724N5S7A	C/F	C/F
	240	6.0	3	32 1/4 (819)	15 (7)	BLS732E3S4	C/F	C/F	BLS732E3S5A	C/F	C/F	BLS732E3S7A	C/F	C/F
	480	6.0	3	32 1/4 (819)	15 (7)	BLS732E5S4	C/F	C/F	BLS732E5S5A	C/F	C/F	BLS732E5S7A	C/F	C/F
	240	7.5	3	39 3/4 (1010)	16 (8)	BLS739N3S4	C/F	C/F	BLS739N3S5A	C/F	C/F	BLS739N3S7A	C/F	C/F
	480	7.5	3	39 3/4 (1010)	16 (8)	BLS739N5S4	C/F	C/F	BLS739N5S5A	C/F	C/F	BLS739N5S7A	C/F	C/F
	240	9.0	3	47 1/4 (1200)	18 (9)	BLS747E3S4	C/F	C/F	BLS747E3S5A	C/F	C/F	BLS747E3S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
23 W/in ² ® Steel Plug 3-Steel Elements (3.6 Wcm ²)	240	3.0	3	17 1/4 (438)	13 (6)	BLS717E3C4	C/F	C/F	BLS717E3C5A	C/F	C/F	BLS717E3C7A	C/F	C/F
	480	3.0	3	17 1/4 (438)	13 (6)	BLS717E5C4	C/F	C/F	BLS717E5C5A	C/F	C/F	BLS717E5C7A	C/F	C/F
	240	4.5	3	24 3/4 (629)	16 (8)	BLS724N3C4	C/F	C/F	BLS724N3C5A	C/F	C/F	BLS724N3C7A	C/F	C/F
	480	4.5	3	24 3/4 (629)	16 (8)	BLS724N5C4	C/F	C/F	BLS724N5C5A	C/F	C/F	BLS724N5C7A	C/F	C/F
	240	6.0	3	32 1/4 (819)	18 (9)	BLS732E3C4	C/F	C/F	BLS732E3C5A	C/F	C/F	BLS732E3C7A	C/F	C/F
	480	6.0	3	32 1/4 (819)	18 (9)	BLS732E5C4	C/F	C/F	BLS732E5C5A	C/F	C/F	BLS732E5C7A	C/F	C/F
	240	7.5	3	39 3/4 (1010)	19 (9)	BLS739N3C4	C/F	C/F	BLS739N3C5A	C/F	C/F	BLS739N3C7A	C/F	C/F
	480	7.5	3	39 3/4 (1010)	19 (9)	BLS739N5C4	C/F	C/F	BLS739N5C5A	C/F	C/F	BLS739N5C7A	C/F	C/F
	240	9.0	3	47 1/4 (1200)	21 (10)	BLS747E3C4	C/F	C/F	BLS747E3C5A	C/F	C/F	BLS747E3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

⑤ No third party recognition

⑥ Can be rewired to produce 1/3 of original kW and watt density (3-phase only)

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



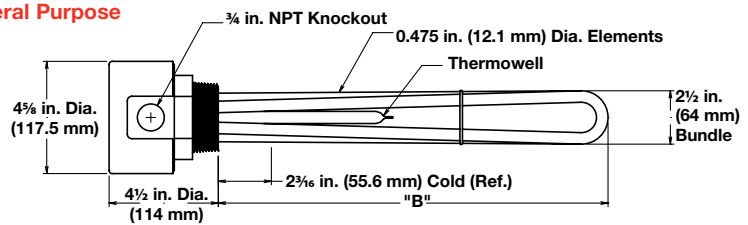
WATROD and FIREBAR Screw Plug Immersion Heaters



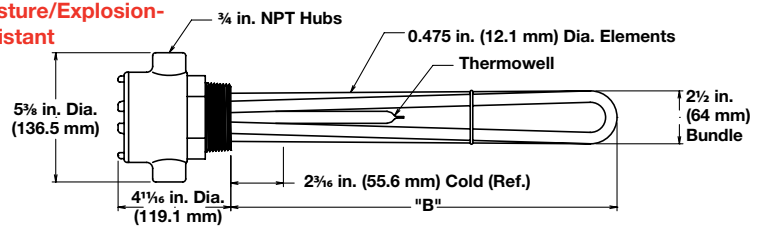
Application: Lightweight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture /Explosion- Resistant Enclosure		Type J T/C	Type K T/C
23 W/in² ⑥ Steel Plug 3-Steel Elements (3.6 Wcm²)	120	3.0	1	17 1/4 (438)	BLS717E1S	9 (4)	C/F	C/F	BLS717E1C	12 (6)	C/F	C/F
	240	3.0	3	17 1/4 (438)	BLS717E3S	9 (4)	C2-50	C2-92	BLS717E3C	12 (6)	C3-94	C3-93
	480	3.0	3	17 1/4 (438)	BLS717E5S	9 (4)	C2-43	C2-35	BLS717E5C	12 (6)	C3-116	C3-118
	120	4.5	1	24 3/4 (629)	BLS724N1S	12 (6)	C/F	C/F	BLS724N1C	15 (7)	C/F	C/F
	240	4.5	3	24 3/4 (629)	BLS724N3S	12 (6)	C2-50	C2-92	BLS724N3C	15 (7)	C3-94	C3-93
	480	4.5	3	24 3/4 (629)	BLS724N5S	12 (6)	C2-43	C2-35	BLS724N5C	15 (7)	C3-116	C3-118
	240	6.0	3	32 1/4 (819)	BLS732E3S	14 (7)	C2-50	C2-92	BLS732E3C	17 (8)	C3-94	C3-93
	480	6.0	3	32 1/4 (819)	BLS732E5S	14 (7)	C2-43	C2-35	BLS732E5C	17 (8)	C3-116	C3-118
	240	7.5	3	39 3/4 (1010)	BLS739N3S	15 (7)	C2-50	C2-92	BLS739N3C	18 (9)	C3-94	C3-93
	480	7.5	3	39 3/4 (1010)	BLS739N5S	15 (7)	C2-43	C2-35	BLS739N5C	18 (9)	C3-116	C3-118
	240	9.0	3	47 1/4 (1200)	BLS747E3S	17 (8)	C2-50	C2-92	BLS747E3C	20 (9)	C3-94	C3-93
	480	9.0	3	47 1/4 (1200)	BLS747E5S	17 (8)	C2-43	C2-35	BLS747E5C	20 (9)	C3-116	C3-118
	240	12.5	3	63 3/4 (1619)	BLS763N3S	20 (9)	C2-236	C2-214	BLS763N3C	23 (11)	C3-114	C3-115
	480	12.5	3	63 3/4 (1619)	BLS763N5S	20 (9)	C2-43	C2-35	BLS763N5C	23 (11)	C3-116	C3-118
	240	15.0	3	76 1/4 (1937)	BLS776E3S	23 (11)	C2-236	C2-214	BLS776E3C	26 (12)	C3-114	C3-115
	480	15.0	3	76 1/4 (1937)	BLS776E5S	23 (11)	C2-43	C2-35	BLS776E5C	26 (12)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

⑤ No third party recognition

⑥ Can be rewired to produce 1/3 of original kW and watt density (3-phase only)

Immersion Heaters



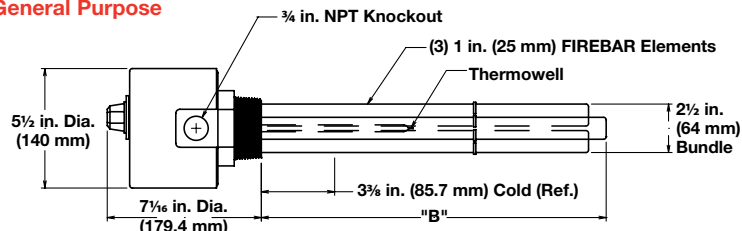
WATROD and FIREBAR Screw Plug Immersion Heaters



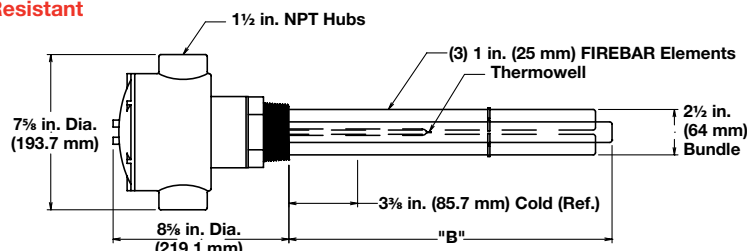
Application: Lightweight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
 - FIREBAR elements
 - With thermostat (DPST), Type 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- General purpose enclosure
 - Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
30 W/in ² ③ 304 SS Plug 3-Alloy 800 Elements (4.7 W/cm ²)	240	5.0	3	15 1/8 (384.2)	12 (6)	BLNF15C12S5A	C/F	C/F	BLNF15C12S7A	C/F	C/F
	480	5.0	3	15 1/8 (384.2)	12 (6)	BLNF15C13S5A	C/F	C/F	BLNF15C13S7A	C/F	C/F
	240	6.5	3	18 1/8 (460.4)	13 (6)	BLNF18C12S5A	C/F	C/F	BLNF18C12S7A	C/F	C/F
	480	6.5	3	18 1/8 (460.4)	13 (6)	BLNF18C13S5A	C/F	C/F	BLNF18C13S7A	C/F	C/F
	240	8.5	3	23 1/8 (587.4)	15 (7)	BLNF23C12S5A	C/F	C/F	BLNF23C12S7A	C/F	C/F
23 W/in ² ⑧ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm ²)	240	3.8	3	15 1/8 (384.2)	12 (6)	BLNF15C20S5A	C/F	C/F	BLNF15C20S7A	C/F	C/F
	240	4.9	3	18 1/8 (460.4)	13 (6)	BLNF18C20S5A	C/F	C/F	BLNF18C20S7A	C/F	C/F
	240	6.4	3	23 1/8 (587.4)	15 (7)	BLNF23C20S5A	C/F	C/F	BLNF23C20S7A	C/F	C/F
	480	6.4	3	23 1/8 (587.4)	15 (7)	BLNF23C19S5A	C/F	C/F	BLNF23C19S7A	C/F	C/F
	240	7.9	3	28 5/8 (727.1)	18 (9)	BLNF28L20S5A	C/F	C/F	BLNF28L20S7A	C/F	C/F
	240	9.6	3	33 5/8 (854.1)	19 (9)	BLNF33L20S5A	C/F	C/F	BLNF33L20S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
30 W/in ² ③ 304 SS Plug 3-Alloy 800 Elements (4.7 W/cm ²)	240	5.0	3	15 1/8 (384.2)	14 (7)	BLNF15C12C5A	C/F	C/F	BLNF15C12C7A	C/F	C/F
	480	5.0	3	15 1/8 (384.2)	14 (7)	BLNF15C13C5A	C/F	C/F	BLNF15C13C7A	C/F	C/F
	240	6.5	3	18 1/8 (460.4)	16 (8)	BLNF18C12C5A	C/F	C/F	BLNF18C12C7A	C/F	C/F
	480	6.5	3	18 1/8 (460.4)	16 (8)	BLNF18C13C5A	C/F	C/F	BLNF18C13C7A	C/F	C/F
	240	8.5	3	23 1/8 (587.4)	18 (9)	BLNF23C12C5A	C/F	C/F	BLNF23C12C7A	C/F	C/F
23 W/in ² ⑧ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm ²)	240	3.8	3	15 1/8 (384.2)	14 (7)	BLNF15C20C5A	C/F	C/F	BLNF15C20C7A	C/F	C/F
	240	4.9	3	18 1/8 (460.4)	16 (8)	BLNF18C20C5A	C/F	C/F	BLNF18C20C7A	C/F	C/F
	240	6.4	3	23 1/8 (587.4)	18 (9)	BLNF23C20C5A	C/F	C/F	BLNF23C20C7A	C/F	C/F
	480	6.4	3	23 1/8 (587.4)	18 (9)	BLNF23C19C5A	C/F	C/F	BLNF23C19C7A	C/F	C/F
	240	7.9	3	28 5/8 (727.1)	21 (10)	BLNF28L20C5A	C/F	C/F	BLNF28L20C7A	C/F	C/F
	240	9.6	3	33 5/8 (854.1)	22 (10)	BLNF33L20C5A	C/F	C/F	BLNF33L20C7A	C/F	C/F

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



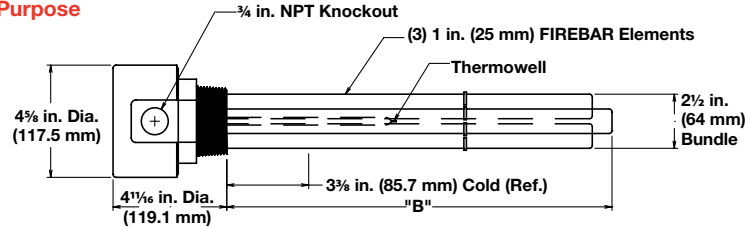
WATROD and FIREBAR Screw Plug Immersion Heaters



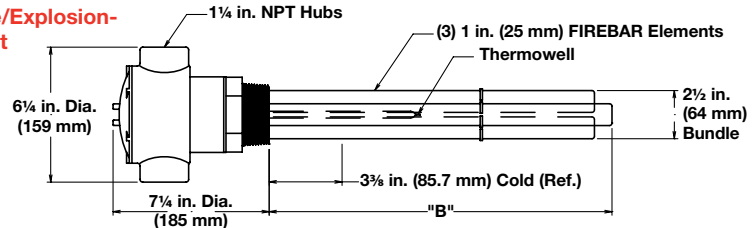
Application: Lightweight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
30 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (4.7 W/cm²)	240	5.0	3	15 1/8 (384.2)	BLNF15C12S	11 (5)	C2-50	C2-92	BLNF15C12C	14 (7)	C3-94	C3-93
	480	5.0	3	15 1/8 (384.2)	BLNF15C13S	11 (5)	C2-43	C2-35	BLNF15C13C	14 (7)	C3-116	C3-118
	240	6.5	3	18 1/8 (460.4)	BLNF18C12S	12 (6)	C2-50	C2-92	BLNF18C12C	15 (7)	C3-94	C3-93
	480	6.5	3	18 1/8 (460.4)	BLNF18C13S	12 (6)	C2-43	C2-35	BLNF18C13C	15 (7)	C3-116	C3-118
	240	8.5	3	23 1/8 (587.4)	BLNF23C12S	14 (7)	C2-50	C2-92	BLNF23C12C	17 (8)	C3-94	C3-93
	480	8.5	3	23 1/8 (587.4)	BLNF23C13S	14 (7)	C2-43	C2-35	BLNF23C13C	17 (8)	C3-116	C3-118
	240	10.5	3	28 5/8 (727.1)	BLNF28L12S	17 (8)	C2-236	C2-214	BLNF28L12C	20 (9)	C3-114	C3-115
	480	10.5	3	28 5/8 (727.1)	BLNF28L13S	17 (8)	C2-43	C2-35	BLNF28L13C	20 (9)	C3-116	C3-118
	240	12.8	3	33 5/8 (854.1)	BLNF33L12S	18 (9)	C2-236	C2-214	BLNF33L12C	21 (10)	C3-114	C3-115
	480	12.8	3	33 5/8 (854.1)	BLNF33L13S	18 (9)	C2-43	C2-35	BLNF33L13C	21 (10)	C3-116	C3-118
	240	17.0	3	44 1/8 (1120.8)	BLNF44C12S	20 (9)	C2-236	C2-214	BLNF44C12C	23 (11)	C3-114	C3-115
	480	17.0	3	44 1/8 (1120.8)	BLNF44C13S	20 (9)	C2-43	C2-35	BLNF44C13C	23 (11)	C3-116	C3-118
23 W/in² ⑧ 304 SS Plug 3-Alloy 800 Elements (3.6 W/cm²)	480	21.5	3	54 5/8 (1387.5)	BLNF54L13S	22 (10)	C2-225	C2-226	BLNF54L13C	25 (12)	C3-117	C3-119
	240	3.8	3	15 1/8 (384.2)	BLNF15C20S	11 (5)	C2-50	C2-92	BLNF15C20C	14 (7)	C3-94	C3-93
	240	4.9	3	18 1/8 (460.4)	BLNF18C20S	12 (6)	C2-50	C2-92	BLNF18C20C	15 (7)	C3-94	C3-93
	240	6.4	3	23 1/8 (587.4)	BLNF23C20S	14 (7)	C2-50	C2-92	BLNF23C20C	17 (8)	C3-94	C3-93
	480	6.4	3	23 1/8 (587.4)	BLNF23C19S	14 (7)	C2-43	C2-35	BLNF23C19C	17 (8)	C3-116	C3-118
	240	7.9	3	28 5/8 (727.1)	BLNF28L20S	17 (8)	C2-50	C2-92	BLNF28L20C	20 (9)	C3-94	C3-93
	480	7.9	3	28 5/8 (727.1)	BLNF28L19S	17 (8)	C2-43	C2-35	BLNF28L19C	20 (9)	C3-116	C3-118
	240	9.6	3	33 5/8 (854.1)	BLNF33L20S	18 (9)	C2-50	C2-92	BLNF33L20C	21 (10)	C3-94	C3-93
	480	9.6	3	33 5/8 (854.1)	BLNF33L19S	18 (9)	C2-43	C2-35	BLNF33L19C	21 (10)	C3-116	C3-118
	240	12.8	3	44 1/8 (1120.8)	BLNF44C20S	20 (9)	C2-236	C2-214	BLNF44C20C	23 (11)	C3-114	C3-115
	480	12.8	3	44 1/8 (1120.8)	BLNF44C19S	20 (9)	C2-43	C2-35	BLNF44C19C	23 (11)	C3-116	C3-118
	240	16.1	3	54 5/8 (1387.5)	BLNF54L20S	22 (10)	C2-236	C2-214	BLNF54L20C	25 (12)	C3-114	C3-115
	480	16.1	3	54 5/8 (1387.5)	BLNF54L19S	22 (10)	C2-43	C2-35	BLNF54L19C	25 (12)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

⑧ Can be wired for 1-phase operation

Immersion Heaters

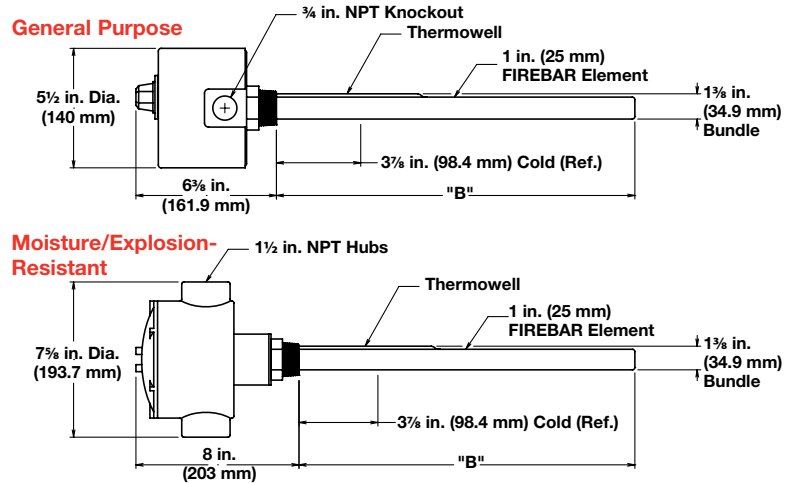


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Medium Weight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- With thermostat (DPST), Type 5A or 7A
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
15 W/in ² ③ 304 SS Plug 1-Alloy 800 Element (2.3 W/cm ²)	240	0.67	3	13 (330)	7 (4)	BDNF13A29S5A	C/F	C/F	BDNF13A29S7A	C/F	C/F
	240	0.83	3	15 1/2 (394)	8 (4)	BDNF15J29S5A	C/F	C/F	BDNF15J29S7A	C/F	C/F
	240	1.00	3	18 (457)	9 (4)	BDNF18A29S5A	C/F	C/F	BDNF18A29S7A	C/F	C/F
	240	1.33	3	22 1/2 (572)	10 (5)	BDNF22J29S5A	C/F	C/F	BDNF22J29S7A	C/F	C/F
	480	1.33	3	22 1/2 (572)	10 (5)	BDNF22J30S5A	C/F	C/F	BDNF22J30S7A	C/F	C/F
	240	1.67	3	27 1/2 (699)	11 (5)	BDNF27J29S5A	C/F	C/F	BDNF27J29S7A	C/F	C/F
	480	1.67	3	27 1/2 (699)	11 (5)	BDNF27J30S5A	C/F	C/F	BDNF27J30S7A	C/F	C/F
	240	2.00	3	32 1/2 (826)	12 (6)	BDNF32J29S5A	C/F	C/F	BDNF32J29S7A	C/F	C/F
	480	2.00	3	32 1/2 (826)	12 (6)	BDNF32J30S5A	C/F	C/F	BDNF32J30S7A	C/F	C/F
	240	2.67	3	42 (1067)	14 (7)	BDNF42A29S5A	C/F	C/F	BDNF42A29S7A	C/F	C/F
	480	2.67	3	42 (1067)	14 (7)	BDNF42A30S5A	C/F	C/F	BDNF42A30S7A	C/F	C/F
	240	3.33	3	51 1/2 (1308)	16 (8)	BDNF51J29S5A	C/F	C/F	BDNF51J29S7A	C/F	C/F
	480	3.33	3	51 1/2 (1308)	16 (8)	BDNF51J30S5A	C/F	C/F	BDNF51J30S7A	C/F	C/F
						Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
15 W/in ² ③ 304 SS Plug 1-Alloy 800 Element (2.3 W/cm ²)	240	0.67	3	13 (330)	10 (5)	BDNF13A29C5A	C/F	C/F	BDNF13A29C7A	C/F	C/F
	240	0.83	3	15 1/2 (394)	11 (5)	BDNF15J29C5A	C/F	C/F	BDNF15J29C7A	C/F	C/F
	240	1.00	3	18 (457)	12 (6)	BDNF18A29C5A	C/F	C/F	BDNF18A29C7A	C/F	C/F
	240	1.33	3	22 1/2 (572)	13 (6)	BDNF22J29C5A	C/F	C/F	BDNF22J29C7A	C/F	C/F
	480	1.33	3	22 1/2 (572)	13 (6)	BDNF22J30C5A	C/F	C/F	BDNF22J30C7A	C/F	C/F
	240	1.67	3	27 1/2 (699)	14 (7)	BDNF27J29C5A	C/F	C/F	BDNF27J29C7A	C/F	C/F
	480	1.67	3	27 1/2 (699)	14 (7)	BDNF27J30C5A	C/F	C/F	BDNF27J30C7A	C/F	C/F
	240	2.00	3	32 1/2 (826)	15 (7)	BDNF32J29C5A	C/F	C/F	BDNF32J29C7A	C/F	C/F
	480	2.00	3	32 1/2 (826)	15 (7)	BDNF32J30C5A	C/F	C/F	BDNF32J30C7A	C/F	C/F
	240	2.67	3	42 (1067)	17 (8)	BDNF42A29C5A	C/F	C/F	BDNF42A29C7A	C/F	C/F
	480	2.67	3	42 (1067)	17 (8)	BDNF42A30C5A	C/F	C/F	BDNF42A30C7A	C/F	C/F
	240	3.33	3	51 1/2 (1308)	19 (9)	BDNF51J29C5A	C/F	C/F	BDNF51J29C7A	C/F	C/F
	480	3.33	3	51 1/2 (1308)	19 (9)	BDNF51J30C5A	C/F	C/F	BDNF51J30C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



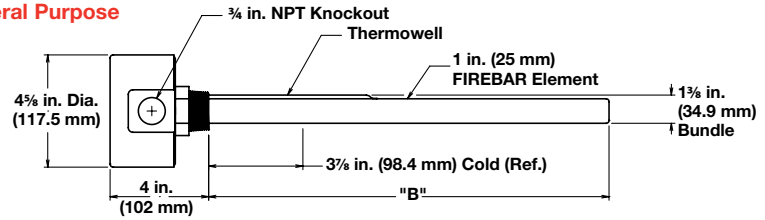
WATROD and FIREBAR Screw Plug Immersion Heaters



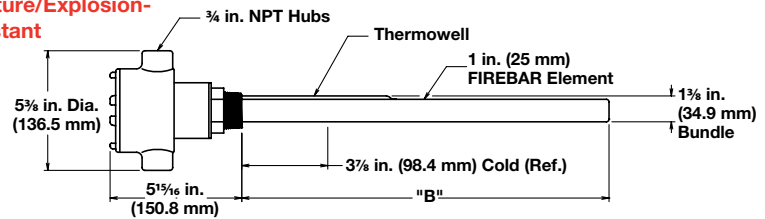
Application: Medium Weight Oils and Heat Transfer Oils

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
15 W/in² ③ 304 SS Plug 1-Alloy 800 Element (2.3 W/cm²)	240	0.67	3	13 (330)	BDNF13A29S	6 (3)	C2-50	C2-92	BDNF13A29C	9 (4)	C3-94	C3-93
	240	0.83	3	15 1/2 (394)	BDNF15J29S	7 (4)	C2-50	C2-92	BDNF15J29C	10 (5)	C3-94	C3-93
	240	1.00	3	18 (457)	BDNF18A29S	8 (4)	C2-50	C2-92	BDNF18A29C	11 (5)	C3-94	C3-93
	240	1.33	3	22 1/2 (572)	BDNF22J29S	9 (4)	C2-50	C2-92	BDNF22J29C	12 (6)	C3-94	C3-93
	480	1.33	3	22 1/2 (572)	BDNF22J30S	9 (4)	C2-43	C2-35	BDNF22J30C	12 (6)	C3-116	C3-118
	240	1.67	3	27 1/2 (699)	BDNF27J29S	10 (5)	C2-50	C2-92	BDNF27J29C	13 (6)	C3-94	C3-93
	480	1.67	3	27 1/2 (699)	BDNF27J30S	10 (5)	C2-43	C2-35	BDNF27J30C	13 (6)	C3-116	C3-118
	240	2.00	3	32 1/2 (826)	BDNF32J29S	11 (5)	C2-50	C2-92	BDNF32J29C	14 (7)	C3-94	C3-93
	480	2.00	3	32 1/2 (826)	BDNF32J30S	11 (5)	C2-43	C2-35	BDNF32J30C	14 (7)	C3-116	C3-118
	240	2.67	3	42 (1067)	BDNF42A29S	13 (6)	C2-50	C2-92	BDNF42A29C	16 (8)	C3-94	C3-93
	480	2.67	3	42 (1067)	BDNF42A30S	13 (6)	C2-43	C2-35	BDNF42A30C	16 (8)	C3-116	C3-118
	240	3.33	3	51 1/2 (1308)	BDNF51J29S	15 (7)	C2-50	C2-92	BDNF51J29C	18 (9)	C3-94	C3-93
	480	3.33	3	51 1/2 (1308)	BDNF51J30S	15 (7)	C2-43	C2-35	BDNF51J30C	18 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

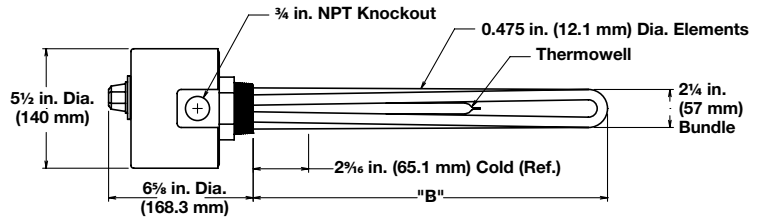


Application: Medium Weight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.

- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30-110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
16 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.5 W/cm²)	240	1.0	3	9 ³ / ₄ (248)	6 (3)	BHN79N12S4	C/F	C/F	BHN79N12S5A	C/F	C/F	BHN79N12S7A	C/F	C/F
	480	1.0	3	9 ³ / ₄ (248)	6 (3)	BHN79N13S4	C/F	C/F	BHN79N13S5A	C/F	C/F	BHN79N13S7A	C/F	C/F
	240	1.5	3	13 ¹ / ₄ (337)	7 (4)	BHN713E12S4	C/F	C/F	BHN713E12S5A	C/F	C/F	BHN713E12S7A	C/F	C/F
	480	1.5	3	13 ¹ / ₄ (337)	7 (4)	BHN713E13S4	C/F	C/F	BHN713E13S5A	C/F	C/F	BHN713E13S7A	C/F	C/F
	240	2.0	3	17 ³ / ₄ (451)	8 (4)	BHN717N12S4	C/F	C/F	BHN717N12S5A	C/F	C/F	BHN717N12S7A	C/F	C/F
	480	2.0	3	17 ³ / ₄ (451)	8 (4)	BHN717N13S4	C/F	C/F	BHN717N13S5A	C/F	C/F	BHN717N13S7A	C/F	C/F
	240	2.5	3	20 ¹ / ₄ (514)	9 (4)	BHN720E12S4	C/F	C/F	BHN720E12S5A	C/F	C/F	BHN720E12S7A	C/F	C/F
	480	2.5	3	20 ¹ / ₄ (514)	9 (4)	BHN720E13S4	C/F	C/F	BHN720E13S5A	C/F	C/F	BHN720E13S7A	C/F	C/F
	240	3.0	3	25 ¹ / ₄ (641)	10 (5)	BHN725E12S4	C/F	C/F	BHN725E12S5A	C/F	C/F	BHN725E12S7A	C/F	C/F
	480	3.0	3	25 ¹ / ₄ (641)	10 (5)	BHN725E13S4	C/F	C/F	BHN725E13S5A	C/F	C/F	BHN725E13S7A	C/F	C/F
	240	4.0	3	32 ³ / ₄ (832)	10 (5)	BHN732N12S4	C/F	C/F	BHN732N12S5A	C/F	C/F	BHN732N12S7A	C/F	C/F
	480	4.0	3	32 ³ / ₄ (832)	10 (5)	BHN732N13S4	C/F	C/F	BHN732N13S5A	C/F	C/F	BHN732N13S7A	C/F	C/F
	240	5.0	3	40 ¹ / ₄ (1022)	11 (5)	BHN740E12S4	C/F	C/F	BHN740E12S5A	C/F	C/F	BHN740E12S7A	C/F	C/F
	480	5.0	3	40 ¹ / ₄ (1022)	11 (5)	BHN740E13S4	C/F	C/F	BHN740E13S5A	C/F	C/F	BHN740E13S7A	C/F	C/F
	240	6.0	3	47 ³ / ₄ (1213)	12 (6)	BHN747N12S4	C/F	C/F	BHN747N12S5A	C/F	C/F	BHN747N12S7A	C/F	C/F
	480	6.0	3	47 ³ / ₄ (1213)	12 (6)	BHN747N13S4	C/F	C/F	BHN747N13S5A	C/F	C/F	BHN747N13S7A	C/F	C/F
15 W/in² Steel Plug 3-Steel Elements (2.3 W/cm²)	240	1.5	3	13 ¹ / ₄ (337)	7 (4)	BHSS13E3S4	C/F	C/F	BHSS13E3S5A	C/F	C/F	BHSS13E3S7A	C/F	C/F
	480	1.5	3	13 ¹ / ₄ (337)	7 (4)	BHSS13E13S4	C/F	C/F	BHSS13E13S5A	C/F	C/F	BHSS13E13S7A	C/F	C/F
	240	2.0	3	17 ¹ / ₂ (445)	8 (4)	BHSS17J3S4	C/F	C/F	BHSS17J3S5A	C/F	C/F	BHSS17J3S7A	C/F	C/F
	480	2.0	3	17 ¹ / ₂ (445)	8 (4)	BHSS17J5S4	C/F	C/F	BHSS17J5S5A	C/F	C/F	BHSS17J5S7A	C/F	C/F
	240	2.5	3	20 ¹ / ₂ (521)	9 (4)	BHSS20J3S4	C/F	C/F	BHSS20J3S5A	C/F	C/F	BHSS20J3S7A	C/F	C/F
	480	2.5	3	20 ¹ / ₂ (521)	9 (4)	BHSS20J5S4	C/F	C/F	BHSS20J5S5A	C/F	C/F	BHSS20J5S7A	C/F	C/F
	240	3.0	3	25 (635)	10 (5)	BHSS25A3S4	C/F	C/F	BHSS25A3S5A	C/F	C/F	BHSS25A3S7A	C/F	C/F
	480	3.0	3	25 (635)	10 (5)	BHSS25A5S4	C/F	C/F	BHSS25A5S5A	C/F	C/F	BHSS25A5S7A	C/F	C/F
	240	4.0	3	32 ¹ / ₂ (826)	13 (6)	BHSS32J3S4	C/F	C/F	BHSS32J3S5A	C/F	C/F	BHSS32J3S7A	C/F	C/F
	480	4.0	3	32 ¹ / ₂ (826)	13 (6)	BHSS32J5S4	C/F	C/F	BHSS32J5S5A	C/F	C/F	BHSS32J5S7A	C/F	C/F
	240	5.0	3	40 (1016)	14 (7)	BHSS40A3S4	C/F	C/F	BHSS40A3S5A	C/F	C/F	BHSS40A3S7A	C/F	C/F
	480	5.0	3	40 (1016)	14 (7)	BHSS40A5S4	C/F	C/F	BHSS40A5S5A	C/F	C/F	BHSS40A5S7A	C/F	C/F
	240	6.0	3	47 ¹ / ₂ (1207)	14 (7)	BHSS47J3S4	C/F	C/F	BHSS47J3S5A	C/F	C/F	BHSS47J3S7A	C/F	C/F
	480	6.0	3	47 ¹ / ₂ (1207)	14 (7)	BHSS47J5S4	C/F	C/F	BHSS47J5S5A	C/F	C/F	BHSS47J5S7A	C/F	C/F
	240	7.5	3	58 ¹ / ₂ (1486)	17 (8)	BHSS58J3S4	C/F	C/F	BHSS58J3S5A	C/F	C/F	BHSS58J3S7A	C/F	C/F
	240	9.0	3	69 ³ / ₄ (1772)	21 (10)	BHSS69N3S4	C/F	C/F	BHSS69N3S5A	C/F	C/F	BHSS69N3S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

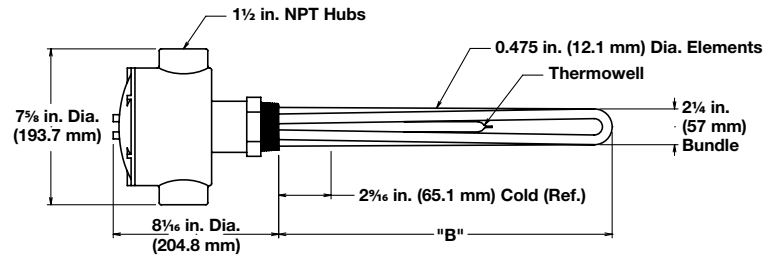
- ③ Wired for 3-phase operation only

WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Medium Weight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A

Note: Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.



- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)

Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30 to 110°F)			Type 5A (60 to 250°F)			Type 7A (100 to 550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
16 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.3 W/cm²)	240	1.0	3	9 3/4 (248)	9 (4)	BHN79N12C4	C/F	C/F	BHN79N12C5A	C/F	C/F	BHN79N12C7A	C/F	C/F
	480	1.0	3	9 3/4 (248)	9 (4)	BHN79N13C4	C/F	C/F	BHN79N13C5A	C/F	C/F	BHN79N13C7A	C/F	C/F
	240	1.5	3	13 1/4 (337)	10 (5)	BHN713E12C4	C/F	C/F	BHN713E12C5A	C/F	C/F	BHN713E12C7A	C/F	C/F
	480	1.5	3	13 1/4 (337)	10 (5)	BHN713E13C4	C/F	C/F	BHN713E13C5A	C/F	C/F	BHN713E13C7A	C/F	C/F
	240	2.0	3	17 3/4 (451)	11 (5)	BHN717N12C4	C/F	C/F	BHN717N12C5A	C/F	C/F	BHN717N12C7A	C/F	C/F
	480	2.0	3	17 3/4 (451)	11 (5)	BHN717N13C4	C/F	C/F	BHN717N13C5A	C/F	C/F	BHN717N13C7A	C/F	C/F
	240	2.5	3	20 1/4 (514)	12 (6)	BHN720E12C4	C/F	C/F	BHN720E12C5A	C/F	C/F	BHN720E12C7A	C/F	C/F
	480	2.5	3	20 1/4 (514)	12 (6)	BHN720E13C4	C/F	C/F	BHN720E13C5A	C/F	C/F	BHN720E13C7A	C/F	C/F
	240	3.0	3	25 1/4 (641)	13 (6)	BHN725E12C4	C/F	C/F	BHN725E12C5A	C/F	C/F	BHN725E12C7A	C/F	C/F
	480	3.0	3	25 1/4 (641)	13 (6)	BHN725E13C4	C/F	C/F	BHN725E13C5A	C/F	C/F	BHN725E13C7A	C/F	C/F
	240	4.0	3	32 3/4 (832)	13 (6)	BHN732N12C4	C/F	C/F	BHN732N12C5A	C/F	C/F	BHN732N12C7A	C/F	C/F
	480	4.0	3	32 3/4 (832)	13 (6)	BHN732N13C4	C/F	C/F	BHN732N13C5A	C/F	C/F	BHN732N13C7A	C/F	C/F
	240	5.0	3	40 1/4 (1022)	14 (7)	BHN740E12C4	C/F	C/F	BHN740E12C5A	C/F	C/F	BHN740E12C7A	C/F	C/F
	480	5.0	3	40 1/4 (1022)	14 (7)	BHN740E13C4	C/F	C/F	BHN740E13C5A	C/F	C/F	BHN740E13C7A	C/F	C/F
	240	6.0	3	47 3/4 (1213)	15 (7)	BHN747N12C4	C/F	C/F	BHN747N12C5A	C/F	C/F	BHN747N12C7A	C/F	C/F
	480	6.0	3	47 3/4 (1213)	15 (7)	BHN747N13C4	C/F	C/F	BHN747N13C5A	C/F	C/F	BHN747N13C7A	C/F	C/F
15 W/in² Steel Plug 3-Steel Elements (2.3 W/cm²)	240	1.5	3	13 1/4 (337)	10 (5)	BHSS13E3C4	C/F	C/F	BHSS13E3C5A	C/F	C/F	BHSS13E3C7A	C/F	C/F
	480	1.5	3	13 1/4 (337)	10 (5)	BHSS13E13C4	C/F	C/F	BHSS13E13C5A	C/F	C/F	BHSS13E13C7A	C/F	C/F
	240	2.0	3	17 1/2 (445)	11 (5)	BHSS17J3C4	C/F	C/F	BHSS17J3C5A	C/F	C/F	BHSS17J3C7A	C/F	C/F
	480	2.0	3	17 1/2 (445)	11 (5)	BHSS17J5C4	C/F	C/F	BHSS17J5C5A	C/F	C/F	BHSS17J5C7A	C/F	C/F
	240	2.5	3	20 1/2 (521)	12 (6)	BHSS20J3C4	C/F	C/F	BHSS20J3C5A	C/F	C/F	BHSS20J3C7A	C/F	C/F
	480	2.5	3	20 1/2 (521)	12 (6)	BHSS20J5C4	C/F	C/F	BHSS20J5C5A	C/F	C/F	BHSS20J5C7A	C/F	C/F
	240	3.0	3	25 (635)	13 (6)	BHSS25A3C4	C/F	C/F	BHSS25A3C5A	C/F	C/F	BHSS25A3C7A	C/F	C/F
	480	3.0	3	25 (635)	13 (6)	BHSS25A5C4	C/F	C/F	BHSS25A5C5A	C/F	C/F	BHSS25A5C7A	C/F	C/F
	240	4.0	3	32 1/2 (826)	16 (8)	BHSS32J3C4	C/F	C/F	BHSS32J3C5A	C/F	C/F	BHSS32J3C7A	C/F	C/F
	480	4.0	3	32 1/2 (826)	16 (8)	BHSS32J5C4	C/F	C/F	BHSS32J5C5A	C/F	C/F	BHSS32J5C7A	C/F	C/F
	240	5.0	3	40 (1016)	17 (8)	BHSS40A3C4	C/F	C/F	BHSS40A3C5A	C/F	C/F	BHSS40A3C7A	C/F	C/F
	480	5.0	3	40 (1016)	17 (8)	BHSS40A5C4	C/F	C/F	BHSS40A5C5A	C/F	C/F	BHSS40A5C7A	C/F	C/F
	240	6.0	3	47 1/2 (1207)	17 (8)	BHSS47J3C4	C/F	C/F	BHSS47J3C5A	C/F	C/F	BHSS47J3C7A	C/F	C/F
	480	6.0	3	47 1/2 (1207)	17 (8)	BHSS47J5C4	C/F	C/F	BHSS47J5C5A	C/F	C/F	BHSS47J5C7A	C/F	C/F
	240	7.5	3	58 1/2 (1486)	20 (9)	BHSS58J3C4	C/F	C/F	BHSS58J3C5A	C/F	C/F	BHSS58J3C7A	C/F	C/F
	240	9.0	3	69 3/4 (1772)	24 (11)	BHSS69N3C4	C/F	C/F	BHSS69N3C5A	C/F	C/F	BHSS69N3C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



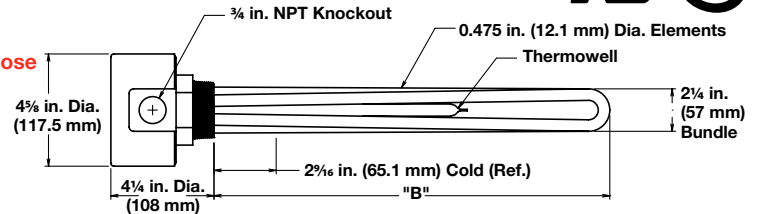
WATROD and FIREBAR Screw Plug Immersion Heaters



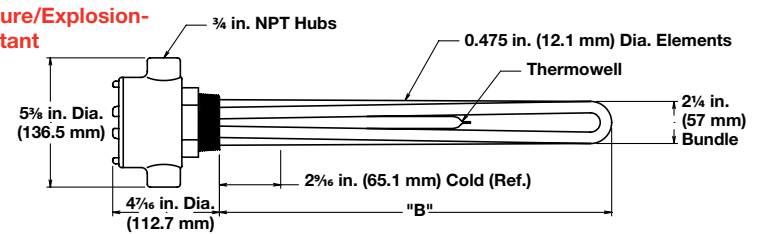
Application: Medium Weight Oils and Heat Transfer Oils

- 2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
16 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.5 W/cm²)	240	1.0	3	9 ³ / ₄ (248)	BHN79N12S	5 (3)	C2-50	C2-92	BHN79N12C	8 (4)	C3-94	C3-93
	480	1.0	3	9 ³ / ₄ (248)	BHN79N13S	5 (3)	C2-43	C2-35	BHN79N13C	8 (4)	C3-116	C3-118
	240	1.5	3	13 ¹ / ₄ (337)	BHN713E12S	6 (3)	C2-50	C2-92	BHN713E12C	9 (4)	C3-94	C3-93
	480	1.5	3	13 ¹ / ₄ (337)	BHN713E13S	6 (3)	C2-43	C2-35	BHN713E13C	9 (4)	C3-116	C3-118
	240	2.0	3	17 ³ / ₄ (451)	BHN717N12S	7 (4)	C2-50	C2-92	BHN717N12C	10 (5)	C3-94	C3-93
	480	2.0	3	17 ³ / ₄ (451)	BHN717N13S	7 (4)	C2-43	C2-35	BHN717N13C	10 (5)	C3-116	C3-118
	240	2.5	3	20 ¹ / ₄ (514)	BHN720E12S	8 (4)	C2-50	C2-92	BHN720E12C	11 (5)	C3-94	C3-93
	480	2.5	3	20 ¹ / ₄ (514)	BHN720E13S	8 (4)	C2-43	C2-35	BHN720E13C	11 (5)	C3-116	C3-118
	240	3.0	3	25 ¹ / ₄ (641)	BHN725E12S	9 (4)	C2-50	C2-92	BHN725E12C	12 (6)	C3-94	C3-93
	480	3.0	3	25 ¹ / ₄ (641)	BHN725E13S	9 (4)	C2-43	C2-35	BHN725E13C	12 (6)	C3-116	C3-118
	240	4.0	3	32 ³ / ₄ (832)	BHN732N12S	9 (4)	C2-50	C2-92	BHN732N12C	12 (6)	C3-94	C3-93
	480	4.0	3	32 ³ / ₄ (832)	BHN732N13S	9 (4)	C2-43	C2-35	BHN732N13C	12 (6)	C3-116	C3-118
	240	5.0	3	40 ¹ / ₄ (1022)	BHN740E12S	10 (5)	C2-50	C2-92	BHN740E12C	13 (6)	C3-94	C3-93
	480	5.0	3	40 ¹ / ₄ (1022)	BHN740E13S	10 (5)	C2-43	C2-35	BHN740E13C	13 (6)	C3-116	C3-118
	240	6.0	3	47 ³ / ₄ (1213)	BHN747N12S	11 (5)	C2-50	C2-92	BHN747N12C	14 (7)	C3-94	C3-93
	480	6.0	3	47 ³ / ₄ (1213)	BHN747N13S	11 (5)	C2-43	C2-35	BHN747N13C	14 (7)	C3-116	C3-118
15 W/in² Steel Plug 3-Steel Elements (2.3 W/cm²)	240	1.5	3	13 ¹ / ₄ (337)	BHSS13E3S	6 (3)	C2-50	C2-92	BHSS13E3C	9 (4)	C3-94	C3-93
	480	1.5	3	13 ¹ / ₄ (337)	BHSS13E13S	6 (3)	C2-43	C2-35	BHSS13E13C	9 (4)	C3-116	C3-118
	240	2.0	3	17 ¹ / ₂ (445)	BHSS17J3S	7 (4)	C2-50	C2-92	BHSS17J3C	10 (5)	C3-94	C3-93
	480	2.0	3	17 ¹ / ₂ (445)	BHSS17J5S	7 (4)	C2-43	C2-35	BHSS17J5C	10 (5)	C3-116	C3-118
	240	2.5	3	20 ¹ / ₂ (521)	BHSS20J3S	8 (4)	C2-50	C2-92	BHSS20J3C	11 (5)	C3-94	C3-93
	480	2.5	3	20 ¹ / ₂ (521)	BHSS20J5S	8 (4)	C2-43	C2-35	BHSS20J5C	11 (5)	C3-116	C3-118
	240	3.0	3	25 (635)	BHSS25A3S	9 (4)	C2-50	C2-92	BHSS25A3C	12 (6)	C3-94	C3-93
	480	3.0	3	25 (635)	BHSS25A5S	9 (4)	C2-43	C2-35	BHSS25A5C	12 (6)	C3-116	C3-118
	240	4.0	3	32 ¹ / ₂ (826)	BHSS32J3S	9 (4)	C2-50	C2-92	BHSS32J3C	12 (6)	C3-94	C3-93
	480	4.0	3	32 ¹ / ₂ (826)	BHSS32J5S	9 (4)	C2-43	C2-35	BHSS32J5C	12 (6)	C3-116	C3-118
	240	5.0	3	40 (1016)	BHSS40A3S	10 (5)	C2-50	C2-92	BHSS40A3C	13 (6)	C3-94	C3-93
	480	5.0	3	40 (1016)	BHSS40A5S	10 (5)	C2-43	C2-35	BHSS40A5C	13 (6)	C3-116	C3-118
	240	6.0	3	47 ¹ / ₂ (1207)	BHSS47J3S	11 (5)	C2-50	C2-92	BHSS47J3C	14 (7)	C3-94	C3-93
	480	6.0	3	47 ¹ / ₂ (1207)	BHSS47J5S	11 (5)	C2-43	C2-35	BHSS47J5C	14 (7)	C3-116	C3-118
	240	7.5	3	58 ¹ / ₂ (1486)	BHSS58J3S	14 (7)	C2-50	C2-92	BHSS58J3C	17 (8)	C3-94	C3-93
	480	7.5	3	58 ¹ / ₂ (1486)	BHSS58J5S	14 (7)	C2-43	C2-35	BHSS58J5C	17 (8)	C3-116	C3-118
	240	9.0	3	69 ³ / ₄ (1772)	BHSS69N3S	16 (8)	C2-50	C2-92	BHSS69N3C	19 (9)	C3-94	C3-93

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only ⑤ No third party recognition

Immersion Heaters

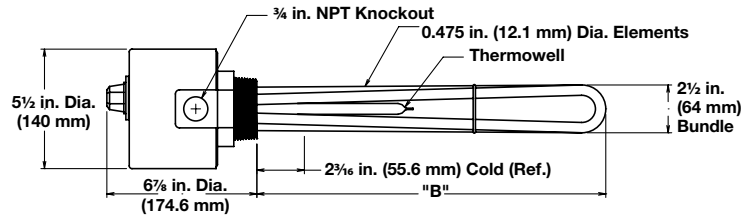


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Medium Weight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A
- General purpose enclosure



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30-110°F)			Type 5A (60-250°F)			Type 7A (100-550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
16 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.5 W/cm²)	240	1.0	3	9 3/8 (238.1)	7 (4)	BLN79G12S4	C/F	C/F	BLN79G12S5A	C/F	C/F	BLN79G12S7A	C/F	C/F
	480	1.0	3	9 3/8 (238.1)	7 (4)	BLN79G13S4	C/F	C/F	BLN79G13S5A	C/F	C/F	BLN79G13S7A	C/F	C/F
	240	1.5	3	12 7/8 (327.0)	8 (4)	BLN712R12S4	C/F	C/F	BLN712R12S5A	C/F	C/F	BLN712R12S7A	C/F	C/F
	480	1.5	3	12 7/8 (327.0)	8 (4)	BLN712R13S4	C/F	C/F	BLN712R13S5A	C/F	C/F	BLN712R13S7A	C/F	C/F
	240	2.0	3	17 3/8 (441.3)	10 (5)	BLN717G12S4	C/F	C/F	BLN717G12S5A	C/F	C/F	BLN717G12S7A	C/F	C/F
	480	2.0	3	17 3/8 (441.3)	10 (5)	BLN717G13S4	C/F	C/F	BLN717G13S5A	C/F	C/F	BLN717G13S7A	C/F	C/F
	240	2.5	3	19 7/8 (504.8)	12 (6)	BLN719R12S4	C/F	C/F	BLN719R12S5A	C/F	C/F	BLN719R12S7A	C/F	C/F
	480	2.5	3	19 7/8 (504.8)	12 (6)	BLN719R13S4	C/F	C/F	BLN719R13S5A	C/F	C/F	BLN719R13S7A	C/F	C/F
	240	3.0	3	24 7/8 (631.8)	13 (6)	BLN724R12S4	C/F	C/F	BLN724R12S5A	C/F	C/F	BLN724R12S7A	C/F	C/F
	480	3.0	3	24 7/8 (631.8)	13 (6)	BLN724R13S4	C/F	C/F	BLN724R13S5A	C/F	C/F	BLN724R13S7A	C/F	C/F
	240	4.0	3	32 3/8 (822.3)	15 (7)	BLN732G12S4	C/F	C/F	BLN732G12S5A	C/F	C/F	BLN732G12S7A	C/F	C/F
	480	4.0	3	32 3/8 (822.3)	15 (7)	BLN732G13S4	C/F	C/F	BLN732G13S5A	C/F	C/F	BLN732G13S7A	C/F	C/F
	240	5.0	3	39 7/8 (1012.8)	16 (8)	BLN739R12S4	C/F	C/F	BLN739R12S5A	C/F	C/F	BLN739R12S7A	C/F	C/F
	480	5.0	3	39 7/8 (1012.8)	16 (8)	BLN739R13S4	C/F	C/F	BLN739R13S5A	C/F	C/F	BLN739R13S7A	C/F	C/F
	240	6.0	3	47 3/8 (1203.3)	18 (9)	BLN747G12S4	C/F	C/F	BLN747G12S5A	C/F	C/F	BLN747G12S7A	C/F	C/F
	480	6.0	3	47 3/8 (1203.3)	18 (9)	BLN747G13S4	C/F	C/F	BLN747G13S5A	C/F	C/F	BLN747G13S7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

③ Wired for 3-phase operation only

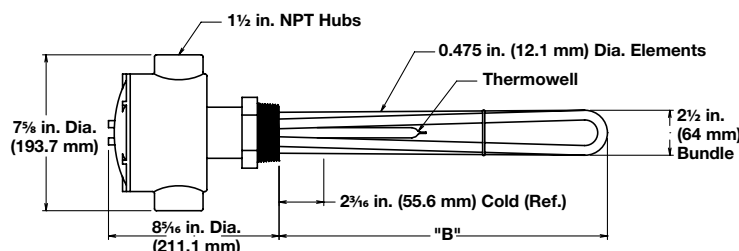
Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

Application: Medium Weight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A
- Moisture/explosion-resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30-110°F)			Type 5A (60-250°F)			Type 7A (100-550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion- Resistant Enclosure ⑤	Type J T/C	Type K T/C
16 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.5 W/cm²)	240	1.0	3	9 3/8 (238.1)	10 (5)	BLN79G12C4	C/F	C/F	BLN79G12C5A	C/F	C/F	BLN79G12C7A	C/F	C/F
	480	1.0	3	9 3/8 (238.1)	10 (5)	BLN79G13C4	C/F	C/F	BLN79G13C5A	C/F	C/F	BLN79G13C7A	C/F	C/F
	240	1.5	3	12 7/8 (327.0)	11 (5)	BLN712R12C4	C/F	C/F	BLN712R12C5A	C/F	C/F	BLN712R12C7A	C/F	C/F
	480	1.5	3	12 7/8 (327.0)	11 (5)	BLN712R13C4	C/F	C/F	BLN712R13C5A	C/F	C/F	BLN712R13C7A	C/F	C/F
	240	2.0	3	17 3/8 (441.3)	13 (6)	BLN717G12C4	C/F	C/F	BLN717G12C5A	C/F	C/F	BLN717G12C7A	C/F	C/F
	480	2.0	3	17 3/8 (441.3)	13 (6)	BLN717G13C4	C/F	C/F	BLN717G13C5A	C/F	C/F	BLN717G13C7A	C/F	C/F
	240	2.5	3	19 7/8 (504.8)	15 (7)	BLN719R12C4	C/F	C/F	BLN719R12C5A	C/F	C/F	BLN719R12C7A	C/F	C/F
	480	2.5	3	19 7/8 (504.8)	15 (7)	BLN719R13C4	C/F	C/F	BLN719R13C5A	C/F	C/F	BLN719R13C7A	C/F	C/F
	240	3.0	3	24 7/8 (631.8)	16 (8)	BLN724R12C4	C/F	C/F	BLN724R12C5A	C/F	C/F	BLN724R12C7A	C/F	C/F
	480	3.0	3	24 7/8 (631.8)	16 (8)	BLN724R13C4	C/F	C/F	BLN724R13C5A	C/F	C/F	BLN724R13C7A	C/F	C/F
	240	4.0	3	32 3/8 (822.3)	18 (9)	BLN732G12C4	C/F	C/F	BLN732G12C5A	C/F	C/F	BLN732G12C7A	C/F	C/F
	480	4.0	3	32 3/8 (822.3)	18 (9)	BLN732G13C4	C/F	C/F	BLN732G13C5A	C/F	C/F	BLN732G13C7A	C/F	C/F
	240	5.0	3	39 7/8 (1012.8)	19 (9)	BLN739R12C4	C/F	C/F	BLN739R12C5A	C/F	C/F	BLN739R12C7A	C/F	C/F
	480	5.0	3	39 7/8 (1012.8)	19 (9)	BLN739R13C4	C/F	C/F	BLN739R13C5A	C/F	C/F	BLN739R13C7A	C/F	C/F
	240	6.0	3	47 3/8 (1203.3)	21 (10)	BLN747G12C4	C/F	C/F	BLN747G12C5A	C/F	C/F	BLN747G12C7A	C/F	C/F
	480	6.0	3	47 3/8 (1203.3)	21 (10)	BLN747G13C4	C/F	C/F	BLN747G13C5A	C/F	C/F	BLN747G13C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters

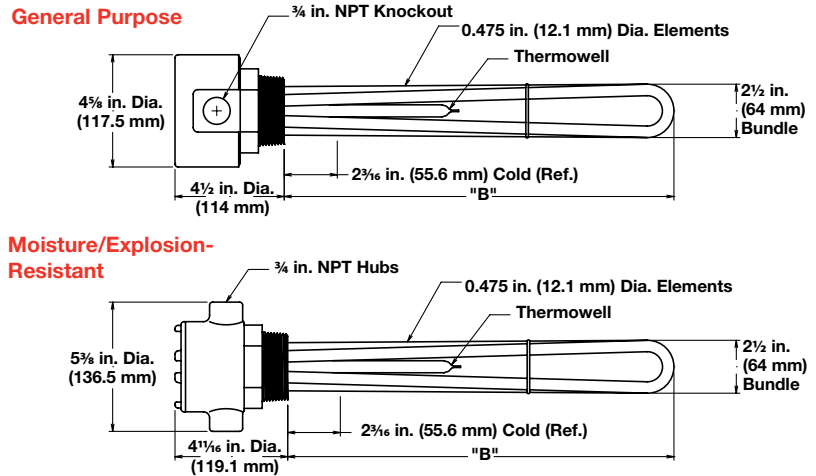


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Medium Weight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
16 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.5 W/cm²)	240	1.0	3	9 ³ / ₈ (238.1)	BLN79G12S	6 (3)	C2-50	C2-92	BLN79G12C	9 (4)	C3-94	C3-93
	480	1.0	3	9 ³ / ₈ (238.1)	BLN79G13S	6 (3)	C2-43	C2-35	BLN79G13C	9 (4)	C3-116	C3-118
	240	1.5	3	12 ⁷ / ₈ (327.0)	BLN712R12S	7 (4)	C2-50	C2-92	BLN712R12C	10 (5)	C3-94	C3-93
	480	1.5	3	12 ⁷ / ₈ (327.0)	BLN712R13S	7 (4)	C2-43	C2-35	BLN712R13C	10 (5)	C3-116	C3-118
	240	2.0	3	17 ³ / ₈ (441.3)	BLN717G12S	9 (4)	C2-50	C2-92	BLN717G12C	12 (6)	C3-94	C3-93
	480	2.0	3	17 ³ / ₈ (441.3)	BLN717G13S	9 (4)	C2-43	C2-35	BLN717G13C	12 (6)	C3-116	C3-118
	240	2.5	3	19 ⁷ / ₈ (504.8)	BLN719R12S	11 (5)	C2-50	C2-92	BLN719R12C	14 (7)	C3-94	C3-93
	480	2.5	3	19 ⁷ / ₈ (504.8)	BLN719R13S	11 (5)	C2-43	C2-35	BLN719R13C	14 (7)	C3-116	C3-118
	240	3.0	3	24 ⁷ / ₈ (631.8)	BLN724R12S	12 (6)	C2-50	C2-92	BLN724R12C	15 (7)	C3-94	C3-93
	480	3.0	3	24 ⁷ / ₈ (631.8)	BLN724R13S	12 (6)	C2-43	C2-35	BLN724R13C	15 (7)	C3-116	C3-118
	240	4.0	3	32 ³ / ₈ (822.3)	BLN732G12S	14 (7)	C2-50	C2-92	BLN732G12C	17 (8)	C3-94	C3-93
	480	4.0	3	32 ³ / ₈ (822.3)	BLN732G13S	14 (7)	C2-43	C2-35	BLN732G13C	17 (8)	C3-116	C3-118
	240	5.0	3	39 ⁷ / ₈ (1012.8)	BLN739R12S	15 (7)	C2-50	C2-92	BLN739R12C	18 (9)	C3-94	C3-93
	480	5.0	3	39 ⁷ / ₈ (1012.8)	BLN739R13S	15 (7)	C2-43	C2-35	BLN739R13C	18 (9)	C3-116	C3-118
	240	6.0	3	47 ³ / ₈ (1203.3)	BLN747G12S	17 (8)	C2-50	C2-92	BLN747G12C	20 (9)	C3-94	C3-93
	480	6.0	3	47 ³ / ₈ (1203.3)	BLN747G13S	17 (8)	C2-43	C2-35	BLN747G13C	20 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



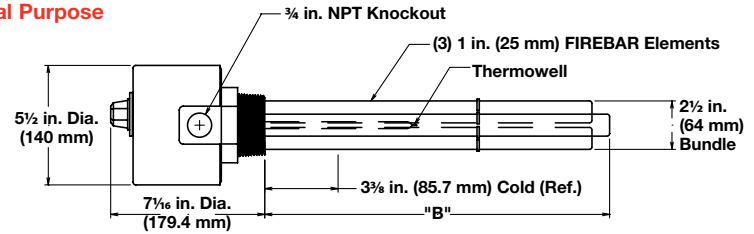
WATROD and FIREBAR Screw Plug Immersion Heaters



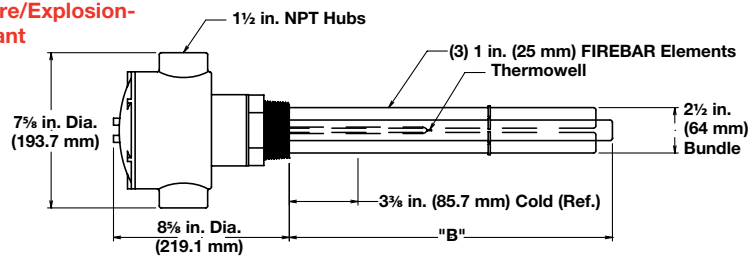
Application: Medium Weight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
 - FIREBAR elements
 - With thermostat (DPST), Type 5A or 7A
- Note:** Higher amperage products require a pilot duty thermostat with separate power controller. Please see following pages for available heaters without thermostats.
- General purpose enclosure
 - Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60-250°F)			Type 7A (100-550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
15 W/in ² ③ 304 SS Plug 3-Alloy 800 Elements (2.3 W/cm ²)	240	2.0	3	12 (305)	11 (5)	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
						BLNF12A29S5A	C/F	C/F	BLNF12A29S7A	C/F	C/F
						BLNF14J29S5A	C/F	C/F	BLNF14J29S7A	C/F	C/F
						BLNF17A29S5A	C/F	C/F	BLNF17A29S7A	C/F	C/F
						BLNF21J29S5A	C/F	C/F	BLNF21J29S7A	C/F	C/F
						BLNF21J30S5A	C/F	C/F	BLNF21J30S7A	C/F	C/F
						BLNF26J29S5A	C/F	C/F	BLNF26J29S7A	C/F	C/F
						BLNF26J30S5A	C/F	C/F	BLNF26J30S7A	C/F	C/F
						BLNF31J29S5A	C/F	C/F	BLNF31J29S7A	C/F	C/F
						BLNF31J30S5A	C/F	C/F	BLNF31J30S7A	C/F	C/F
						BLNF41A29S5A	C/F	C/F	BLNF41A29S7A	C/F	C/F
						BLNF50J29S5A	C/F	C/F	BLNF50J29S7A	C/F	C/F
15 W/in ² ③ 304 SS Plug 3-Alloy 800 Elements (2.3 W/cm ²)	240	2.0	3	12 (305)	14 (7)	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
						BLNF12A29C5A	C/F	C/F	BLNF12A29C7A	C/F	C/F
						BLNF14J29C5A	C/F	C/F	BLNF14J29C7A	C/F	C/F
						BLNF17A29C5A	C/F	C/F	BLNF17A29C7A	C/F	C/F
						BLNF21J29C5A	C/F	C/F	BLNF21J29C7A	C/F	C/F
						BLNF21J30C5A	C/F	C/F	BLNF21J30C7A	C/F	C/F
						BLNF26J29C5A	C/F	C/F	BLNF26J29C7A	C/F	C/F
						BLNF26J30C5A	C/F	C/F	BLNF26J30C7A	C/F	C/F
						BLNF31J29C5A	C/F	C/F	BLNF31J29C7A	C/F	C/F
						BLNF31J30C5A	C/F	C/F	BLNF31J30C7A	C/F	C/F
						BLNF41A29C5A	C/F	C/F	BLNF41A29C7A	C/F	C/F
						BLNF50J29C5A	C/F	C/F	BLNF50J29C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

C/F - Contact factory, go to www.watlow.com/en/contact-us

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



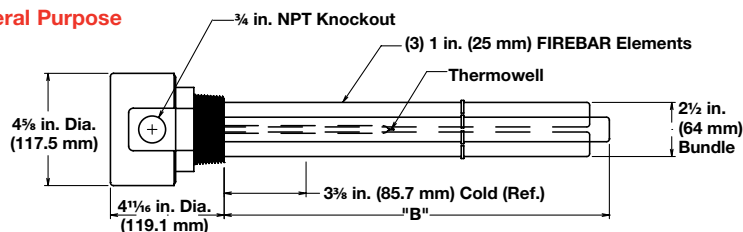
WATROD and FIREBAR Screw Plug Immersion Heaters



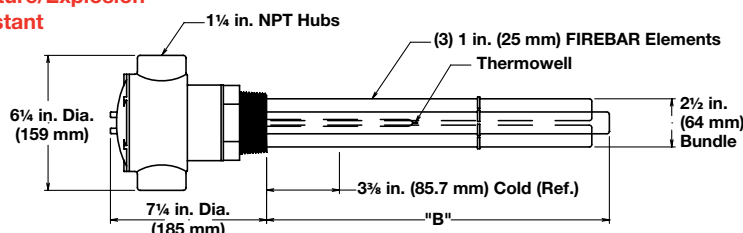
Application: Medium Weight Oils and Heat Transfer Oils

- 2 1/2 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. In. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
15 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (2.3 W/cm²)	240	2.0	3	12 (305)	BLNF12A29S	10 (5)	C2-50	C2-92	BLNF12A29C	13 (6)	C3-94	C3-93
	240	2.5	3	14 1/2 (368)	BLNF14J29S	11 (5)	C2-50	C2-92	BLNF14J29C	14 (7)	C3-94	C3-93
	240	3.0	3	17 (432)	BLNF17A29S	12 (6)	C2-50	C2-92	BLNF17A29C	15 (7)	C3-94	C3-93
	240	4.0	3	21 1/2 (546)	BLNF21J29S	14 (7)	C2-50	C2-92	BLNF21J29C	17 (8)	C3-94	C3-93
	480	4.0	3	21 1/2 (546)	BLNF21J30S	14 (7)	C2-43	C2-35	BLNF21J30C	17 (8)	C3-116	C3-118
	240	5.0	3	26 1/2 (673)	BLNF26J29S	17 (8)	C2-50	C2-92	BLNF26J29C	20 (9)	C3-94	C3-93
	480	5.0	3	26 1/2 (673)	BLNF26J30S	17 (8)	C2-43	C2-35	BLNF26J30C	20 (9)	C3-116	C3-118
	240	6.0	3	31 1/2 (800)	BLNF31J29S	18 (9)	C2-50	C2-92	BLNF31J29C	21 (10)	C3-94	C3-93
	480	6.0	3	31 1/2 (800)	BLNF31J30S	18 (9)	C2-43	C2-35	BLNF31J30C	21 (10)	C3-116	C3-118
	240	8.0	3	41 (1041)	BLNF41A29S	20 (9)	C2-50	C2-92	BLNF41A29C	23 (11)	C3-94	C3-93
	480	8.0	3	41 (1041)	BLNF41A30S	20 (9)	C2-43	C2-35	BLNF41A30C	23 (11)	C3-116	C3-118
	240	10.0	3	50 1/2 (1283)	BLNF50J29S	22 (10)	C2-50	C2-92	BLNF50J29C	25 (12)	C3-94	C3-93
	480	10.0	3	50 1/2 (1283)	BLNF50J30S	22 (10)	C2-43	C2-35	BLNF50J30C	25 (12)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



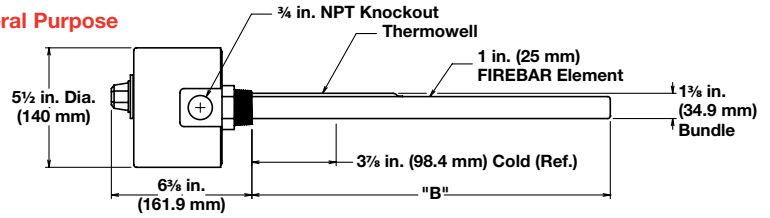
WATROD and FIREBAR Screw Plug Immersion Heaters



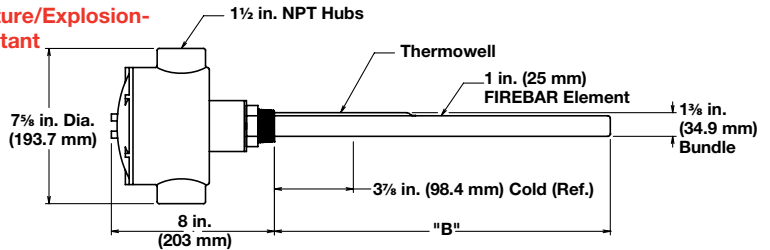
Application: Bunker C, Asphalt and #6 Fuel Oil

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- With thermostat (DPST), Type 5A or 7A
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60-250°F)			Type 7A (100-550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose	Type J T/C	Type K T/C	General Purpose	Type J T/C	Type K T/C
8 W/in ² ③ 304 SS Plug 1-Alloy 800 Element (1.3 W/cm ²)	240	0.43	3	16 1/8 (409.6)	8 (4)	BDNF16G22S5A	C/F	C/F	BDNF16G22S7A	C/F	C/F
	240	0.55	3	19 1/8 (485.8)	9 (4)	BDNF19G22S5A	C/F	C/F	BDNF19G22S7A	C/F	C/F
	240	0.70	3	24 3/8 (619.1)	10 (5)	BDNF24L22S5A	C/F	C/F	BDNF24L22S7A	C/F	C/F
	480	0.70	3	24 3/8 (619.1)	10 (5)	BDNF24L21S5A	C/F	C/F	BDNF24L21S7A	C/F	C/F
	240	0.88	3	29 5/8 (752.5)	11 (5)	BDNF29R22S5A	C/F	C/F	BDNF29R22S7A	C/F	C/F
	480	0.88	3	29 5/8 (752.5)	11 (5)	BDNF29R21S5A	C/F	C/F	BDNF29R21S7A	C/F	C/F
	240	1.08	3	34 5/8 (879.5)	12 (6)	BDNF34R22S5A	C/F	C/F	BDNF34R22S7A	C/F	C/F
	480	1.08	3	34 5/8 (879.5)	12 (6)	BDNF34R21S5A	C/F	C/F	BDNF34R21S7A	C/F	C/F
	240	1.40	3	45 1/8 (1146.2)	14 (7)	BDNF45G22S5A	C/F	C/F	BDNF45G22S7A	C/F	C/F
	480	1.40	3	45 1/8 (1146.2)	14 (7)	BDNF45G21S5A	C/F	C/F	BDNF45G21S7A	C/F	C/F
	240	1.80	3	55 5/8 (1412.9)	16 (8)	BDNF55R22S5A	C/F	C/F	BDNF55R22S7A	C/F	C/F
	480	1.80	3	55 5/8 (1412.9)	16 (8)	BDNF55R21S5A	C/F	C/F	BDNF55R21S7A	C/F	C/F
						Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
8 W/in ² ③ 304 SS Plug 1-Alloy 800 Element (1.3 W/cm ²)	240	0.43	3	16 1/8 (409.6)	11 (5)	BDNF16G22C5A	C/F	C/F	BDNF16G22C7A	C/F	C/F
	240	0.55	3	19 1/8 (485.8)	12 (6)	BDNF19G22C5A	C/F	C/F	BDNF19G22C7A	C/F	C/F
	240	0.70	3	24 3/8 (619.1)	13 (6)	BDNF24L22C5A	C/F	C/F	BDNF24L22C7A	C/F	C/F
	480	0.70	3	24 3/8 (619.1)	13 (6)	BDNF24L21C5A	C/F	C/F	BDNF24L21C7A	C/F	C/F
	240	0.88	3	29 5/8 (752.5)	14 (7)	BDNF29R22C5A	C/F	C/F	BDNF29R22C7A	C/F	C/F
	480	0.88	3	29 5/8 (752.5)	14 (7)	BDNF29R21C5A	C/F	C/F	BDNF29R21C7A	C/F	C/F
	240	1.08	3	34 5/8 (879.5)	15 (7)	BDNF34R22C5A	C/F	C/F	BDNF34R22C7A	C/F	C/F
	480	1.08	3	34 5/8 (879.5)	15 (7)	BDNF34R21C5A	C/F	C/F	BDNF34R21C7A	C/F	C/F
	240	1.40	3	45 1/8 (1146.2)	17 (8)	BDNF45G22C5A	C/F	C/F	BDNF45G22C7A	C/F	C/F
	480	1.40	3	45 1/8 (1146.2)	17 (8)	BDNF45G21C5A	C/F	C/F	BDNF45G21C7A	C/F	C/F
	240	1.80	3	55 5/8 (1412.9)	19 (9)	BDNF55R22C5A	C/F	C/F	BDNF55R22C7A	C/F	C/F
	480	1.80	3	55 5/8 (1412.9)	19 (9)	BDNF55R21C5A	C/F	C/F	BDNF55R21C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters



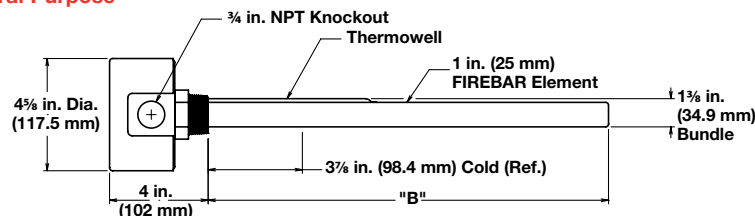
WATROD and FIREBAR Screw Plug Immersion Heaters



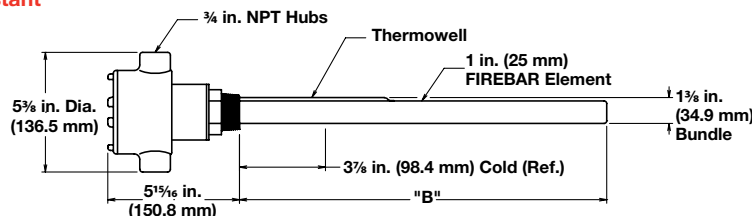
Application: Bunker C, Asphalt and #6 Fuel Oil

- 1 1/4 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
8 W/in ² ③ 304 SS Plug 1-Alloy 800 Element (1.3 W/cm ²)	240	0.43	3	16 1/8 (409.6)	BDNF16G22S	7 (4)	C2-50	C2-92	BDNF16G22C	10 (5)	C3-94	C3-93
	240	0.55	3	19 1/8 (485.8)	BDNF19G22S	8 (4)	C2-50	C2-92	BDNF19G22C	11 (5)	C3-94	C3-93
	240	0.70	3	24 3/8 (619.1)	BDNF24L22S	9 (4)	C2-50	C2-92	BDNF24L22C	12 (6)	C3-94	C3-93
	480	0.70	3	24 3/8 (619.1)	BDNF24L21S	9 (4)	C2-43	C2-35	BDNF24L21C	12 (6)	C3-116	C3-118
	240	0.88	3	29 5/8 (752.5)	BDNF29R22S	10 (5)	C2-50	C2-92	BDNF29R22C	13 (6)	C3-94	C3-93
	480	0.88	3	29 5/8 (752.5)	BDNF29R21S	10 (5)	C2-43	C2-35	BDNF29R21C	13 (6)	C3-116	C3-118
	240	1.08	3	34 5/8 (879.5)	BDNF34R22S	11 (5)	C2-50	C2-92	BDNF34R22C	14 (7)	C3-94	C3-93
	480	1.08	3	34 5/8 (879.5)	BDNF34R21S	11 (5)	C2-43	C2-35	BDNF34R21C	14 (7)	C3-116	C3-118
	240	1.40	3	45 1/8 (1146.2)	BDNF45G22S	13 (6)	C2-50	C2-92	BDNF45G22C	16 (8)	C3-94	C3-93
	480	1.40	3	45 1/8 (1146.2)	BDNF45G21S	13 (6)	C2-43	C2-35	BDNF45G21C	16 (8)	C3-116	C3-118
	240	1.80	3	55 5/8 (1412.9)	BDNF55R22S	15 (7)	C2-50	C2-92	BDNF55R22C	18 (9)	C3-94	C3-93
	480	1.80	3	55 5/8 (1412.9)	BDNF55R21S	15 (7)	C2-43	C2-35	BDNF55R21C	18 (9)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



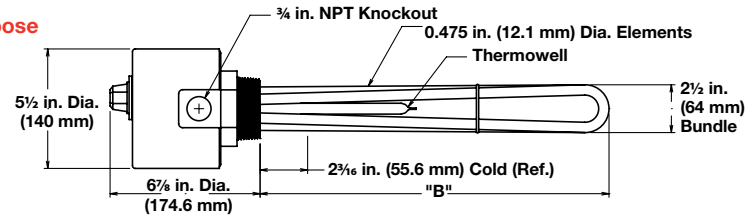
WATROD and FIREBAR Screw Plug Immersion Heaters



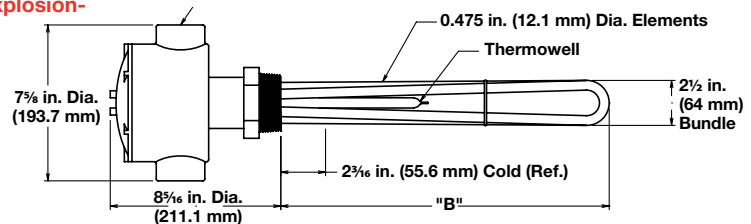
Application: Bunker C, Asphalt and #6 Fuel Oil

- 2 1/2 inch NPT screw plug
- WATROD elements
- With thermostat (DPST), Type 4, 5A or 7A
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 4 (30-110°F)			Type 5A (60-250°F)			Type 7A (100-550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
8 W/in ² ③ Steel Plug 3-Steel Elements (1.3 W/cm ²)	240	1.0	3	17 1/4 (438)	10 (5)	BLS717E12S4	C/F	C/F	BLS717E12S5A	C/F	C/F	BLS717E12S7	C/F	C/F
	480	1.0	3	17 1/4 (438)	10 (5)	BLS717E13S4	C/F	C/F	BLS717E13S5A	C/F	C/F	BLS717E13S7	C/F	C/F
	240	1.5	3	24 3/4 (629)	13 (6)	BLS724N12S4	C/F	C/F	BLS724N12S5A	C/F	C/F	BLS724N12S7	C/F	C/F
	480	1.5	3	24 3/4 (629)	13 (6)	BLS724N13S4	C/F	C/F	BLS724N13S5A	C/F	C/F	BLS724N13S7	C/F	C/F
	240	2.0	3	32 1/4 (819)	15 (7)	BLS732E12S4	C/F	C/F	BLS732E12S5A	C/F	C/F	BLS732E12S7	C/F	C/F
	480	2.0	3	32 1/4 (819)	15 (7)	BLS732E13S4	C/F	C/F	BLS732E13S5A	C/F	C/F	BLS732E13S7	C/F	C/F
	240	2.5	3	39 3/4 (1010)	16 (8)	BLS739N12S4	C/F	C/F	BLS739N12S5A	C/F	C/F	BLS739N12S7	C/F	C/F
	480	2.5	3	39 3/4 (1010)	16 (8)	BLS739N13S4	C/F	C/F	BLS739N13S5A	C/F	C/F	BLS739N13S7	C/F	C/F
	240	3.0	3	47 1/4 (1200)	18 (9)	BLS747E12S4	C/F	C/F	BLS747E12S5A	C/F	C/F	BLS747E12S7	C/F	C/F
	480	3.0	3	47 1/4 (1200)	18 (9)	BLS747E13S4	C/F	C/F	BLS747E13S5A	C/F	C/F	BLS747E13S7	C/F	C/F
	240	4.0	3	63 3/4 (1619)	21 (10)	BLS763N12S4	C/F	C/F	BLS763N12S5A	C/F	C/F	BLS763N12S7	C/F	C/F
	480	4.0	3	63 3/4 (1619)	21 (10)	BLS763N13S4	C/F	C/F	BLS763N13S5A	C/F	C/F	BLS763N13S7	C/F	C/F
	240	5.0	3	76 1/4 (1937)	24 (11)	BLS776E12S4	C/F	C/F	BLS776E12S5A	C/F	C/F	BLS776E12S7	C/F	C/F
	480	5.0	3	76 1/4 (1937)	24 (11)	BLS776E13S4	C/F	C/F	BLS776E13S5A	C/F	C/F	BLS776E13S7	C/F	C/F
8 W/in ² ③ Steel Plug 3-Steel Elements (1.3 W/cm ²)	240	1.0	3	17 1/4 (438)	13 (6)	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
	480	1.0	3	17 1/4 (438)	13 (6)	BLS717E12C4	C/F	C/F	BLS717E12C5A	C/F	C/F	BLS717E12C7A	C/F	C/F
	240	1.5	3	24 3/4 (629)	16 (8)	BLS724N12C4	C/F	C/F	BLS724N12C5A	C/F	C/F	BLS724N12C7A	C/F	C/F
	480	1.5	3	24 3/4 (629)	16 (8)	BLS724N13C4	C/F	C/F	BLS724N13C5A	C/F	C/F	BLS724N13C7A	C/F	C/F
	240	2.0	3	32 1/4 (819)	18 (9)	BLS732E12C4	C/F	C/F	BLS732E12C5A	C/F	C/F	BLS732E12C7A	C/F	C/F
	480	2.0	3	32 1/4 (819)	18 (9)	BLS732E13C4	C/F	C/F	BLS732E13C5A	C/F	C/F	BLS732E13C7A	C/F	C/F
	240	2.5	3	39 3/4 (1010)	19 (9)	BLS739N12C4	C/F	C/F	BLS739N12C5A	C/F	C/F	BLS739N12C7A	C/F	C/F
	480	2.5	3	39 3/4 (1010)	19 (9)	BLS739N13C4	C/F	C/F	BLS739N13C5A	C/F	C/F	BLS739N13C7A	C/F	C/F
	240	3.0	3	47 1/4 (1200)	21 (10)	BLS747E12C4	C/F	C/F	BLS747E12C5A	C/F	C/F	BLS747E12C7A	C/F	C/F
	480	3.0	3	47 1/4 (1200)	21 (10)	BLS747E13C4	C/F	C/F	BLS747E13C5A	C/F	C/F	BLS747E13C7A	C/F	C/F
	240	4.0	3	63 3/4 (1619)	24 (11)	BLS763N12C4	C/F	C/F	BLS763N12C5A	C/F	C/F	BLS763N12C7A	C/F	C/F
	480	4.0	3	63 3/4 (1619)	24 (11)	BLS763N13C4	C/F	C/F	BLS763N13C5A	C/F	C/F	BLS763N13C7A	C/F	C/F
	240	5.0	3	76 1/4 (1937)	27 (13)	BLS776E12C4	C/F	C/F	BLS776E12C5A	C/F	C/F	BLS776E12C7A	C/F	C/F
	480	5.0	3	76 1/4 (1937)	27 (13)	BLS776E13C4	C/F	C/F	BLS776E13C5A	C/F	C/F	BLS776E13C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

- ③ Wired for 3-phase operation only
⑤ No third party recognition

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Immersion Heaters

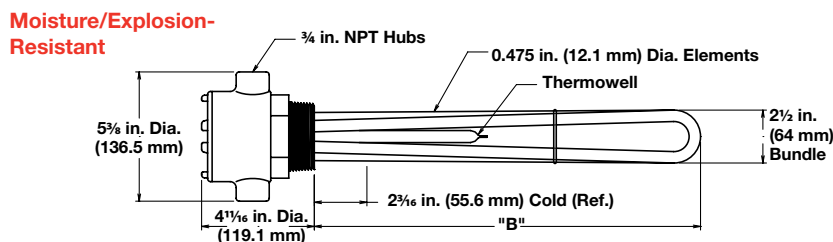
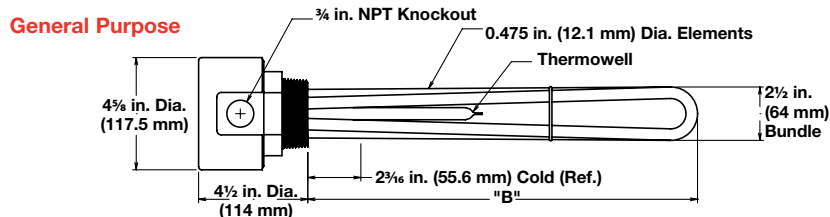


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Bunker C, Asphalt and #6 Fuel Oil

- 2 1/2 inch NPT screw plug
- WATROD elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure
(suitable for use in non-classified areas
only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
8 W/in² ③ Steel Plug 3-Steel Elements (1.3 W/cm²)	240	1.0	3	17 1/4 (438)	BLS717E12S	9 (4)	C2-50	C2-92	BLS717E12C	12 (6)	C3-94	C3-93
	480	1.0	3	17 1/4 (438)	BLS717E13S	9 (4)	C2-43	C2-35	BLS717E13C	12 (6)	C3-116	C3-118
	240	1.5	3	24 3/4 (629)	BLS724N12S	12 (6)	C2-50	C2-92	BLS724N12C	15 (7)	C3-94	C3-93
	480	1.5	3	24 3/4 (629)	BLS724N13S	12 (6)	C2-43	C2-35	BLS724N13C	15 (7)	C3-116	C3-118
	240	2.0	3	32 1/4 (819)	BLS732E12S	14 (7)	C2-50	C2-92	BLS732E12C	17 (8)	C3-94	C3-93
	480	2.0	3	32 1/4 (819)	BLS732E13S	14 (7)	C2-43	C2-35	BLS732E13C	17 (8)	C3-116	C3-118
	240	2.5	3	39 3/4 (1010)	BLS739N12S	15 (7)	C2-50	C2-92	BLS739N12C	18 (9)	C3-94	C3-93
	480	2.5	3	39 3/4 (1010)	BLS739N13S	15 (7)	C2-43	C2-35	BLS739N13C	18 (9)	C3-116	C3-118
	240	3.0	3	47 1/4 (1200)	BLS747E12S	17 (8)	C2-50	C2-92	BLS747E12C	20 (9)	C3-94	C3-93
	480	3.0	3	47 1/4 (1200)	BLS747E13S	17 (8)	C2-43	C2-35	BLS747E13C	20 (9)	C3-116	C3-118
	240	4.0	3	63 3/4 (1619)	BLS763N12S	20 (9)	C2-50	C2-92	BLS763N12C	23 (11)	C3-94	C3-93
	480	4.0	3	63 3/4 (1619)	BLS763N13S	20 (9)	C2-43	C2-35	BLS763N13C	23 (11)	C3-116	C3-118
	240	5.0	3	76 1/4 (1937)	BLS776E12S	23 (11)	C2-50	C2-92	BLS776E12C	26 (12)	C3-94	C3-93
	480	5.0	3	76 1/4 (1937)	BLS776E13S	23 (11)	C2-43	C2-35	BLS776E13C	26 (12)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



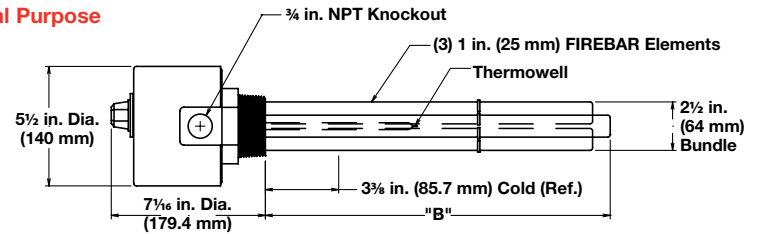
WATROD and FIREBAR Screw Plug Immersion Heaters



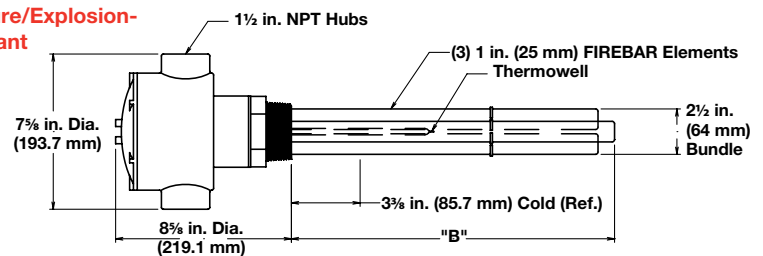
Application: Bunker C, Asphalt and #6 Fuel Oil

- 2 1/2 inch NPT screw plug
- FIREBAR elements
- With thermostat (DPST), Type 5A or 7A
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure (suitable for use in non-classified areas only)

General Purpose



Moisture/Explosion-Resistant



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Ship Wt. lbs (kg)	Type 5A (60-250°F)			Type 7A (100-550°F)		
						Part Number	WATCONNECT Part Number		Part Number	WATCONNECT Part Number	
						General Purpose Enclosure	Type J T/C	Type K T/C	General Purpose Enclosure	Type J T/C	Type K T/C
8 W/in ² ③ 304 SS Plug 3-Alloy 800 Elements (1.3 W/cm ²)	240	1.25	3	15 1/8 (384.2)	11 (5)	BLNF15C22S5A	C/F	C/F	BLNF15C22S7A	C/F	C/F
	240	1.63	3	18 1/8 (460.4)	13 (6)	BLNF18C22S5A	C/F	C/F	BLNF18C22S7A	C/F	C/F
	240	2.13	3	23 1/8 (587.4)	15 (7)	BLNF23C22S5A	C/F	C/F	BLNF23C22S7A	C/F	C/F
	480	2.13	3	23 1/8 (587.4)	15 (7)	BLNF23C21S5A	C/F	C/F	BLNF23C21S7A	C/F	C/F
	240	2.63	3	28 5/8 (727.1)	18 (9)	BLNF28L22S5A	C/F	C/F	BLNF28L22S7A	C/F	C/F
	480	2.63	3	28 5/8 (727.1)	18 (9)	BLNF28L21S5A	C/F	C/F	BLNF28L21S7A	C/F	C/F
	240	3.19	3	33 5/8 (854.1)	19 (9)	BLNF33L22S5A	C/F	C/F	BLNF33L22S7A	C/F	C/F
	480	3.19	3	33 5/8 (854.1)	19 (9)	BLNF33L21S5A	C/F	C/F	BLNF33L21S7A	C/F	C/F
	240	4.25	3	44 1/8 (1120.8)	21 (10)	BLNF44C22S5A	C/F	C/F	BLNF44C22S7A	C/F	C/F
	480	4.25	3	44 1/8 (1120.8)	21 (10)	BLNF44C21S5A	C/F	C/F	BLNF44C21S7A	C/F	C/F
	240	5.38	3	54 5/8 (1387.5)	23 (11)	BLNF54L22S5A	C/F	C/F	BLNF54L22S7A	C/F	C/F
	480	5.38	3	54 5/8 (1387.5)	23 (11)	BLNF54L21S5A	C/F	C/F	BLNF54L21S7A	C/F	C/F
						Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C	Moisture/ Explosion-Resistant Enclosure ⑤	Type J T/C	Type K T/C
8 W/in ² ③ 304 SS Plug 3-Alloy 800 Elements (1.3 W/cm ²)	240	1.25	3	15 1/8 (384.2)	14 (7)	BLNF15C22C5A	C/F	C/F	BLNF15C22C7A	C/F	C/F
	240	1.63	3	18 1/8 (460.4)	16 (8)	BLNF18C22C5A	C/F	C/F	BLNF18C22C7A	C/F	C/F
	240	2.13	3	23 1/8 (587.4)	18 (9)	BLNF23C22C5A	C/F	C/F	BLNF23C22C7A	C/F	C/F
	480	2.13	3	23 1/8 (587.4)	18 (9)	BLNF23C21C5A	C/F	C/F	BLNF23C21C7A	C/F	C/F
	240	2.63	3	28 5/8 (727.1)	21 (10)	BLNF28L22C5A	C/F	C/F	BLNF28L22C7A	C/F	C/F
	480	2.63	3	28 5/8 (727.1)	21 (10)	BLNF28L21C5A	C/F	C/F	BLNF28L21C7A	C/F	C/F
	240	3.19	3	33 5/8 (854.1)	22 (10)	BLNF33L22C5A	C/F	C/F	BLNF33L22C7A	C/F	C/F
	480	3.19	3	33 5/8 (854.1)	22 (10)	BLNF33L21C5A	C/F	C/F	BLNF33L21C7A	C/F	C/F
	240	4.25	3	44 1/8 (1120.8)	24 (11)	BLNF44C22C5A	C/F	C/F	BLNF44C22C7A	C/F	C/F
	480	4.25	3	44 1/8 (1120.8)	24 (11)	BLNF44C21C5A	C/F	C/F	BLNF44C21C7A	C/F	C/F
	240	5.38	3	54 5/8 (1387.5)	26 (11)	BLNF54L22C5A	C/F	C/F	BLNF54L22C7A	C/F	C/F
	480	5.38	3	54 5/8 (1387.5)	26 (11)	BLNF54L21C5A	C/F	C/F	BLNF54L21C7A	C/F	C/F

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only ⑤ No third party recognition
C/F - Contact factory, go to www.watlow.com/en/contact-us

Immersion Heaters

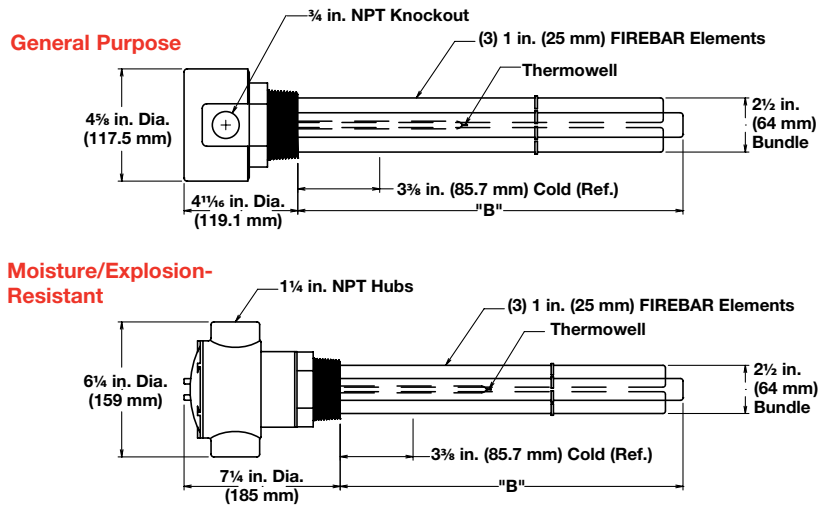


WATROD and FIREBAR Screw Plug Immersion Heaters



Application: Bunker C, Asphalt and #6 Fuel Oil

- 2 1/2 inch NPT screw plug
- FIREBAR elements
- Without thermostat
- General purpose enclosure
- Moisture/Explosion-Resistant enclosure
(suitable for use in non-classified areas only)



Description	Volts	kW	Ph	"B" Dim. in. (mm)	Part Number	Ship Wt. lbs (kg)	WATCONNECT Part Number		Part Number ⑤	Ship Wt. lbs (kg)	WATCONNECT Part Number	
					General Purpose Enclosure		Type J T/C	Type K T/C	Moisture/Explosion- Resistant Enclosure		Type J T/C	Type K T/C
8 W/in² ③ 304 SS Plug 3-Alloy 800 Elements (1.3 W/cm²)	240	1.25	3	15 1/8 (384.2)	BLNF15C22S	11 (5)	C2-50	C2-92	BLNF15C22C	14 (7)	C3-94	C3-93
	240	1.63	3	18 1/8 (460.4)	BLNF18C22S	12 (6)	C2-50	C2-92	BLNF18C22C	15 (7)	C3-94	C3-93
	240	2.13	3	23 1/8 (587.4)	BLNF23C22S	14 (7)	C2-50	C2-92	BLNF23C22C	17 (8)	C3-94	C3-93
	480	2.13	3	23 1/8 (587.4)	BLNF23C21S	14 (7)	C2-43	C2-35	BLNF23C21C	17 (8)	C3-116	C3-118
	240	2.63	3	28 5/8 (727.1)	BLNF28L22S	17 (8)	C2-50	C2-92	BLNF28L22C	20 (9)	C3-94	C3-93
	480	2.63	3	28 5/8 (727.1)	BLNF28L21S	17 (8)	C2-43	C2-35	BLNF28L21C	20 (9)	C3-116	C3-118
	240	3.19	3	33 5/8 (854.1)	BLNF33L22S	18 (9)	C2-50	C2-92	BLNF33L22C	21 (10)	C3-94	C3-93
	480	3.19	3	33 5/8 (854.1)	BLNF33L21S	18 (9)	C2-43	C2-35	BLNF33L21C	21 (10)	C3-116	C3-118
	240	4.25	3	44 1/8 (1120.8)	BLNF44C22S	20 (9)	C2-50	C2-92	BLNF44C22C	23 (11)	C3-94	C3-93
	480	4.25	3	44 1/8 (1120.8)	BLNF44C21S	20 (9)	C2-43	C2-35	BLNF44C21C	23 (11)	C3-116	C3-118
	240	5.38	3	54 5/8 (1387.5)	BLNF54L22S	22 (10)	C2-50	C2-92	BLNF54L22C	25 (12)	C3-94	C3-93
	480	5.38	3	54 5/8 (1387.5)	BLNF54L21S	22 (10)	C2-43	C2-35	BLNF54L21C	25 (12)	C3-116	C3-118

Note: All screw plug bundles are designed to fit the inside diameter of the equivalent mating coupling. They will not fit into the equivalent pipe inside diameter.

③ Wired for 3-phase operation only

⑤ No third party recognition

Immersion Heaters



WATROD and FIREBAR Screw Plug Immersion Heaters

Part Number

Stock Screw Plug Part Number	Optional Terminal Enclosures	Optional Process Sensors	Sheath Limit Sensors

Stock Screw Plug Part Number

Note: Catalog part numbers include standard option enclosures and process sensors. To order optional enclosures or sensors, substitute the appropriate suffix.

Optional Terminal Enclosures

S =	General purpose enclosure
W =	NEMA 4 enclosure
C =	CSA Type 4/Explosion proof enclosure

Note: Catalog listings include either a general purpose enclosure or moisture/explosion-resistant enclosure. Substitute enclosure options are noted.

Optional Bulb & Capillary Thermostats or Thermocouple Process Sensors

2 =	30 to 250°F, (-1 to 121°C) SPST
3 =	175 to 550°F, (79 to 288°C) SPST
4 =	30 to 110°F, (-1 to 43°C) DPST
5A =	60 to 250°F, (16 to 121°C) DPST (FIREBAR)
7A =	100 to 550°F, (38 to 288°C) DPST (FIREBAR)
PJ =	Type J process thermocouple in thermowell
PK =	Type K process thermocouple in thermowell

Note: Thermostat part numbers are shown in the *Thermostat Chart* on page 517.

Sheath Limit Sensors

HJ =	Type J high-limit thermocouple, horizontal mount
TJ =	Type J high-limit thermocouple, vertical/housing at top
BJ =	Type J high-limit thermocouple, vertical/housing at bottom
HK =	Type K high-limit thermocouple, horizontal mount
TK =	Type K high-limit thermocouple, vertical/housing at top
BK =	Type K high-limit thermocouple, vertical/housing at bottom

Note: Heater orientation is critical to accurate sensing of limit conditions. Use the appropriate code to indicate heater mounting orientation.

Example Part Number: BHC78C6 S 1 HJ