




# Standard Cartridge Heater Configuration Chart

Diameter	Diameter Tolerances			Construction				Sheath Material		
	Standard Swage to Size Tolerance	Premium Centerless Grind Tolerance	Maximum Heater Length	High Watt Density	Medium Watt Density	Thermo-couple		SS321	Incoloy 800	Stainless NPT Size
						J	K			
.125"	●	.1240-.1201"	4.0"	●	●	●	●	●	Teflon Plug & Leads Only	
.250"	●	.248-.244"	60.0"	●	●	●	●	●	●	.125"
.3125"	●	.3105-.3066"	70.0"	●	●	●	●	●	●	.125"
.375"	●	.373-.369"	80.0"	●	●	●	●	●	●	.250"
.500"	●	.498-.494"	100.0"	●	●	●	●	●	●	.375"
.625"	●	.623-.619"	100.0"	●	●	●	●	●	●	.500"
.6785"	●	.6866-.6850"	100.0"	●	●	●	●	●	●	.500"
.750"	●	.748-.744"	100.0"	●	●	●	●	●	●	.750"
1.0"	●	.9984-.9969"	100.0"	●	●	●	●	●	●	1.00"
6.2mm	●	6.18-6.14mm	1524 mm	●	●	●	●	●	●	●
6.5mm	●	6.48-6.44mm	1524 mm	●	●	●	●	●	●	.125"
7.0mm*	●	6.98-6.94mm	1524 mm	●	●	●	●	●	●	●
8.0mm	●	7.98-7.94mm	1178 mm	●	●	●	●	●	●	.125"
9.0mm*	●	8.98-8.94mm	1178 mm	●	●	●	●	●	●	●
9.5mm*	●	9.48-9.44mm	2032 mm	●	●	●	●	●	●	.250"
10.0mm	●	9.98-9.94mm	2032 mm	●	●	●	●	●	●	.250"
11.0mm*	●	10.98-10.94mm	2032 mm	●	●	●	●	●	●	●
12.0mm*	●	11.98-11.94mm	2540 mm	●	●	●	●	●	●	●
12.5mm	●	12.48-12.44mm	2540 mm	●	●	●	●	●	●	.375"
13.0mm*	●	12.98-12.94mm	2540 mm	●	●	●	●	●	●	●
14.0mm*	●	13.98-13.94mm	2540 mm	●	●	●	●	●	●	●
15.0mm*	●	14.98-14.94mm	2540 mm	●	●	●	●	●	●	●
16.0mm	●	15.98-15.94mm	2540 mm	●	●	●	●	●	●	.500"
17.5mm*	●	17.48-17.44mm	2540 mm	●	●	●	●	●	●	●
18.0mm*	●	17.98-17.94mm	2540 mm	●	●	●	●	●	●	●
19.0mm*	●	18.98-18.94mm	2540 mm	●	●	●	●	●	●	.750"
20.0mm	●	19.98-19.94mm	2540 mm	●	●	●	●	●	●	.750"
22.0mm*	●	21.98-21.94mm	2540 mm	●	●	●	●	●	●	●

\*Non standard metric diameters with special construction

		Temp. Rating		Movement	Moisture
		°F	°C		
Potting Options	Ceramic	1000	538	Good	Not Recommended
	Silicone - Standard	500	260	Excellent	Excellent
	Silicone - High Temp.	650	343	Excellent	Excellent
	Epoxy	600	315	Very Good	Very Good
	Teflon Plug	450	232	Very Good	Not Recommended
Lead Options	Fiberglass (Standard)	482	250	Good	Not Recommended
	Teflon	500	260	Excellent	Excellent
	Silicone	356	180	Excellent	Excellent
	Silicone Cable	356	180	Excellent	Excellent
	High Temp. Fiberglass	932	500	Not Recommended	Not Recommended

Lead Protection			
Fiberglass Sleeve	Braided Metal Sleeve	Armor Cable	Gas Proof Armor
			

Exit and Removal			
Right Angle Exit	Right Angle Block	Flange	Knock Out Tab
			

This chart is a representative of standard cartridge heater configurations. Please call STS at 704-399-4248 for additional options, special configurations, and assemblies.