



BOLT CARTRIDGE HEATERS



INFORMATION

Bolt Heaters are constructed with one of the industry's most efficient and highest quality heating elements—Hi-Density (swaged) Cartridge Heaters; with close tolerance fits, watt densities of 100 watts per square inch are obtainable – 65% higher than standard cartridge or tubular heating elements can deliver. The higher wattage on Hi-Density Bolt Heaters means quicker heat-up time and minimum heat loss to the area surrounding the bolt.

Bolt heaters are manufactured with a handle attached to a terminal conduit box for easy insertion and removal.

DESIGN FEATURES:

- Hi-Density Construction
- Conduit Box with Knockouts
- Handle
- High Temperature Lead Wires – 250°C (482°F)
- Optional SJO Cord or Post Terminals
- Optional Quick Disconnect Plugs

INDUSTRIES AND APPLICATIONS

TYPICAL INDUSTRIES:

- Boiler Manufacturers
- Construction
- Large Machine and Die Manufacturers
- Power Plants
- Shipyards

TYPICAL APPLICATIONS:

- Large Compressors
- Turbines
- Die Blocks
- Large Cylinders
- Engine Heads
- Pressure Vessels

DIAMETERS AND TOLERANCES

Actual Diameter (in)	0.438	0.496	0.553	0.621	0.660	0.710	0.745	0.813	0.993
Actual Diameter (mm)	11.1	12.6	14.0	15.8	16.8	18.0	18.9	20.7	25.2

DIAMETER TOLERANCE: ±.005 (.127 mm)

LENGTH TOLERANCE: ±2% of sheath length

CAMBER TOLERANCE: .020" (0.38 mm) per foot of length

LEAD WIRE OPTIONS

Picture	Type	Max Temp	Notes
	MGT 1000°C	1832°F / 1000°C	Flexible, Not Waterproof
	MGT 750°C	1382°F / 750°C	Flexible, Not Waterproof
	Duraflex	1022°F / 550°C	Flexible, Not Waterproof
	MGT	842°F / 450°C	Flexible, Not Waterproof
	TGGT	482°F / 250°C	Durable, Flexible, Not Waterproof
	Teflon	500°F / 260°C	Abrasion Resistant, Small OD, Waterproof
	Silicone Rubber	355°F / 180°C	Very Flexible, Waterproof, Easy to Nick
	SEW2	392°F / 200°C	Very Flexible, Fair Abrasion Resist, Waterproof

STANDARD PRODUCTS

Hole Diameter		Heater Diameter (App.)		"B" Heated		Standard	Wattage	MPI P/N
In	mm	In	mm	In	mm			
0.5	12.7	0.488	12.4	12	305	120, 208, 240	875	CH-500-305-875
				24	610		1650	CH-500-610-1650
				36	914		2400	CH-500-914-2400
0.563	14.3	0.5	12.7	12	305	120, 208, 240	900	CH-563-305-900
				24	610		1700	CH-563-610-1700
				36	914		2500	CH-563-914-2500
0.625	15.9	0.563	14.3	12	305	120, 208, 240, 480, 600	1500	CH-625-305-1500
				24	610		3250	CH-625-610-3250
				36	914	208, 240, 480, 600	4000	CH-625-914-4000
0.688	17.5	0.63	16	12	305	120, 208, 240, 480, 600	1700	CH-688-305-1700
				24	610		3500	CH-688-610-3500
				36	914	208, 240, 480, 600	4150	CH-688-914-4150
0.75	19.1	0.687	17.4	24	305	120, 208, 240, 480, 600	3500	CH-750-610-3500
				36	610		4200	CH-750-914-4200
				48	914	208, 240, 480, 600	6000	CH-750-1219-6000
0.875	22.2	0.787	20	24	610	120, 208, 240, 480, 600	3500	CH-875-610-3500
				36	914		4750	CH-875-914-4750
				48	1219	208, 240, 480, 600	6250	CH-875-1219-6250
1	25.4	0.965	24.5	24	610	120, 208, 240, 480, 600	3500	CH-1000-610-3500
				36	914		5000	CH-1000-914-5000
				48	1219	208, 240, 480, 600	6500	CH-1000-1219-6500

END SEAL OPTIONS

Type	Max Temp	Moisture Protection	Contaminant Protection	Mech. Strength	Vibration Resist.
Ceramic	2500°F 1371°C	Poor	Poor	Excellent	Excellent
Teflon	300°F 149°C	Excellent	Excellent	Very Good	Excellent
Lava	3000°F 1649°C	Poor	Good	Good	Poor
Cement Potting	1800°F 982°C	Poor	Fair	Good	Poor
EpoxyLite Potting	650°F 343°C	Fair	Very Good	Very Good	Excellent
Epoxy Potting	265°F 129°C	Good	Good	Excellent	Excellent
Silicone Rubber	500°F 260°C	Excellent	Excellent	Fair	Excellent