

Cartridge Heaters

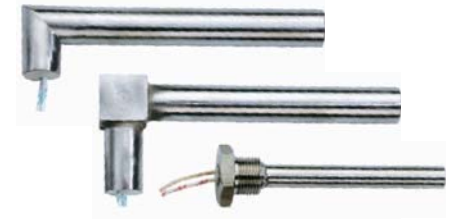
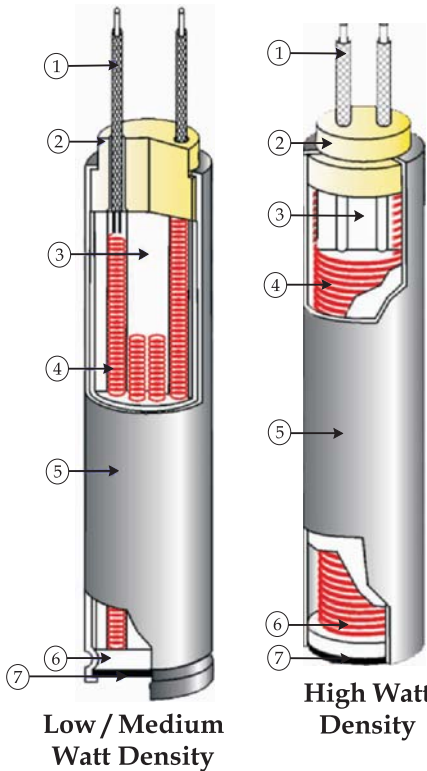
High Watt Density Medium & Low Watt Density

LEGEND :

1. Flexible Nickel lead
2. Ceramic insulation cap (optional)
3. Magnesium oxide / Insulative core.
4. Ni-Cr resistance.
5. Outer sheath
6. Insulated material
7. Welded stainless steel bottom disc / end disc.

APPLICATIONS :

- ▶ Hot runner manifolds
- ▶ Heating of Dies & Platens
- ▶ Packaging Industries.
(Heating of sealing bars and Hot stamping)
- ▶ Injection moulding machines
- ▶ Rubber moulding machines
- ▶ Extrusion machines
- ▶ Semi conductor



STANDARD SIZES :

Diameter (mm): 3, 5, 6, 6.5, 8, 9.5, 10, 12, 12.5, 12.7, 14, 15, 15.5, 15.8, 16, 18, 19, 20, 25.4

Diameter (inch):

Inch	1/4	3/8	1/2	5/8	3/4	1
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TECHNICAL FEATURES

Features	Low Density Cartridge Heater	Medium Density Cartridge Heater	High Density Cartridge Heater
Max. Surface Load	4 w/cm ²	12 w/cm ²	25 w/cm ²
Wattage Tolerance	±10%	±10%	±10%
Insulation Resistance	≥ 5 MΩ at 1000V (DC)	≥ 5 MΩ at 1000V (DC)	≥ 5 MΩ at 1000V (DC)
Standard Dia range	8 mm to 40 mm	8 mm to 20 mm	3 mm to 25.4 mm
Diameter Tolerance	- 0.1 mm	- 0.1 mm	-0.02 mm to 0.06 mm
Standard Length	minimum 50 mm	minimum 50 mm	minimum 25 mm
Length Tolerance	± 1.5%, min ± 2 mm,	± 1.5%, min ± 2 mm,	± 1.5%, min ± 1 mm
Max. Sheath Temp	400°C	650°C	750°C

- ▶ Also available with inbuilt Thermocouple type J or K on request.

CONNECTION TYPES



Inside Connection
(swaged in leads)



Outside Connection

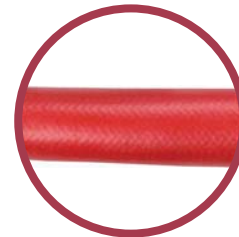
WIRE PROTECTION



Flexible Metal Conduit



Braided Metal Sleeve



Fiber Glass Sleeve

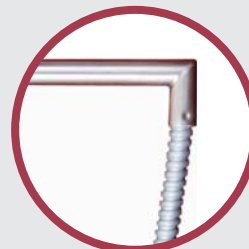
TERMINATION



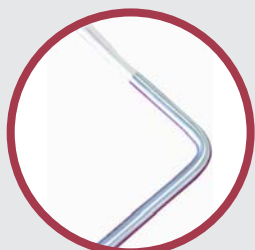
Leads Coming Out Directly
from the Sheath



90 degree Cubic Block



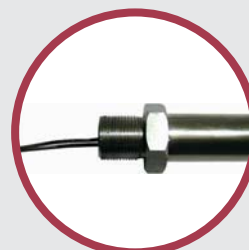
Right Angle Tube



Bent at Right Angle



Flange and Stopper ring



Hexagonal Head with
Threaded End