

Mica Band Heaters

- High temperature oxidation resistant metal sheath
- Highest grade mica insulation provides excellent electrical insulation at high temperatures and is resistant to moisture.
- Clamping band is low thermal expansion stainless steel construction designed to maintain clamping pressure at elevated temperatures.
- Nickel/Chromium resistance wire evenly wound for uniform heat distribution and reliable accuracy.
- Standard 10" fiberglass leadwires are UL rated and provide protection up to 450°C.
- Approximately 1/8" thick.



Mica Insulated Strip heaters / Plate heaters are sheathed in rust-resistance steel or in stainless steel sheath as it provides physical strength and good thermal conductivity.

Maximum Allowable Watt Density in Watt/Sq.Inch

Cylinder Temp.°C	94	150	205	260	315	370	425
1.5-3" I.D.	52	51	50	46	41	37	29
3-10" I.D.	47	46	45	42	38	33	25
10" and >I.D.	41	40	39	36	31	27	20

Ceramic Band Heaters

- Ceramic band heaters are medium-to-high temperature heaters that have 648°C as a maximum working temperature. These durable heaters can have optional in-built ceramic fiber jackets that make them energy efficient. Ceramic band heaters are available with different terminal styles, are fully flexible, and can accommodate holes and cut-outs.



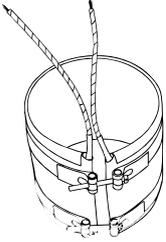
APPLICATIONS:-

- Reduce power consumption
- Conserve heat
- High degree of flexibility
- Uniform heat distribution
- Various termination styles

- In a ceramic band heater, nickel-chrome wire is embedded in a flexible outer wall made of special, interlocking ceramic tiles (KNUCKLES), which are assembled like a brick wall. A ceramic fiber insulating mat and a stainless Steel/Aluminised Steel jacket cover this assembly. This construction prevents heat loss and reduces electrical consumption by 20%.
- Ceramic band heaters can be manufactured with different clamping mechanisms, terminations styles, holes and cut-outs, perforations.

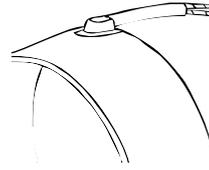
Fibreglass Lead & Stainless Steel Braid terminations

Order Type L1/B1



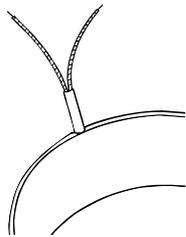
- Leads exiting both sides of gap are standard unless otherwise specified.
- High temperature fiberglass leads are rated to 455°C.
- Standard lead length is 10"

Order Type L4/B4



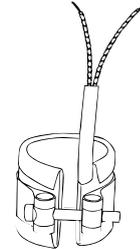
- Leads may exit at right angle out of cap from any position on the heater.
- 1.5" of sleeve protection is standard.

Order Type L2/B2



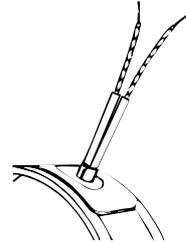
- Lead wires exiting 180 degrees from gap are common on nozzle heater applications.
- 1.5" of sleeve protection is standard on lead exits.

Order Type L5/B5



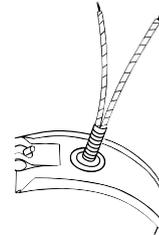
- Lead wires on one side of gap are available on any construction.
- Common exit for small band heaters.
- Standard gap is .300"

Order Type L3/B3



- Leads exiting straight out the side are available on any construction.
- Leads exit through a brass eyelet.

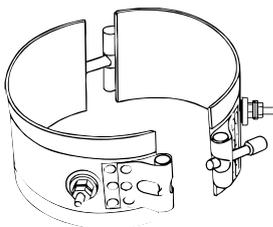
Order Type L6/B6



- Stainless steel spring provides extra support, protecting leads from sharp bends.

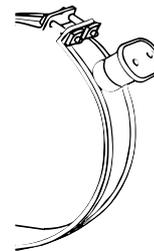
Marathon Special Constructions

Two Piece



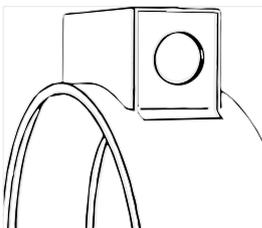
- Two piece construction is available for easy installation and removal.
- Please specify total wattage when ordering
- Min. I.D. 3"

Euro Plug



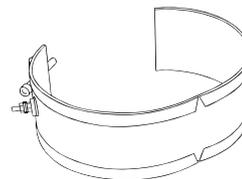
- European type plugs are available upon request.
- 1" x 1.75" x 1"

Terminal Box



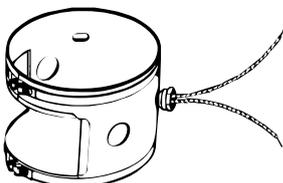
- Terminal boxes are excellent for preventing electrical shock or electrical shorts. Terminal boxes are available on any clamping or construction style.

Expandable



- Expandable Mica Heaters allow you to open the heaters to the diameters of the barrel for easy installation.
- Min. I.D. 3"
- Heaters should only be opened all the way one time.

Holes



- Band Heaters can be manufactured with custom holes or slots for thermocouples or special mounting needs.
- Minimum of 1/2" is required from the hole to the edge of the heater.

Box



- Box or rectangular heaters are efficient for heating dies on plastic extruders or the barrels of twin extruders.
- They can be manufactured in one or two piece construction.