

Mica Band Heaters

Mica Band heaters are constructed with a mica core wound with wire, the core is then bent into the requested diameter. Mica bands can be manufactured to your specifications. These heaters are used to heat barrels or cylinders. Numerous variations of construction, termination, and lockup are shown below.

LEAD TERMINATION OPTIONS



Nozzle heating applications design with 12" standard lead length.



Single conductor metal braid over lead wire. Offers most practical solution to abrasion problem. 12" braid with 14" overall length leads are standard.



Standard lead wires exiting 180° from gap.

Leads/Braided Leads

Min. DIA. Full Band	Min. DIA. Half Band	Min. Width
3/4"	1-3/4"	3/4"

METAL BRAIDED LEADS



Double conductor metal braid over lead wires. 12" braid with 14" overall length leads are standard. Specify alternate exit position.



Double conductor metal braid exiting from edge 180° from gap.

ARMOR CABLE LEADS



Leads exit at right angle to sheath 5/8" from gap. 12" lead wire in 3" long sleeving is standard. Specify alternate position.



Flexible armor cable is the best solution to lead abrasion problems. 12" armor with 14" overall length leads are standard. Specify alternate position.

Armor Leads

Min. DIA. Full Band	Min. DIA. Half Band	Min. Width
1-1/2"	3"	1"

SCREW TERMINALS



Standard position under 2-1/2" wide.



Standard position over 2-1/2" wide.



10-32 thread requires 1/2" clearance from cylinder.



Standard with terminal box.

Screw Terminals

Min. DIA. Full Band	Min. DIA. Half Band	Min. Width
3/4"	1-3/4"	3/4"

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MOUNTING/LOCKUP CONFIGURATIONS



Hinged Half Band is convenient when two piece heaters are required. Mounting flange lockup and T2 screw terminals. Available with any termination or mounting arrangement.

Hinged Half Band

Min. DIA. Half Band	Min. Width
1-3/4"	1-1/2"



Half Band eases installation in difficult situations. Shown with T8 Terminals and full bypass strap lockup for terminal clearance Available with any termination or mounting arrangement



Probe holes and cutouts specify location in degrees from center of gap and size or provide drawing. Often a larger gap (3/4" - 1") will serve the same purpose. Standard gap is 1/4".



Minimum diameter is 1-1/2" with a minimum width of 1".



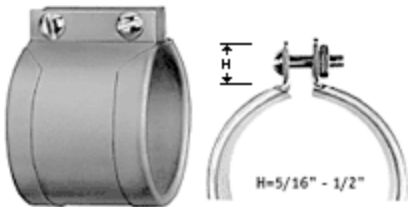
Split case allows heater to be opened one time for mounting. Available with any termination or mounting arrangement, full strap lockup.



Minimum diameter is 1-1/2" with a minimum width of 2-1/2". With Leads, minimum width is 3/4".



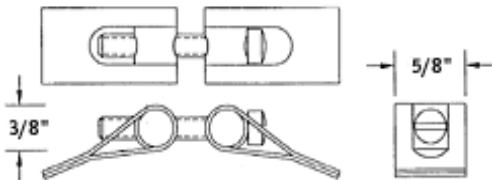
Strap-made from a low expansion alloy to tighten around the whole circumference of the heater with 5/16 socket head bolt. Low Profile: H = 1/4", 1/2" wide (Supplied on 3" I.D. and less). Standard Profile: H = 3/8", 5/8" wide (supplied on 3-1/8" I.D. and larger). Also available with hose clamp or punch lock strap.



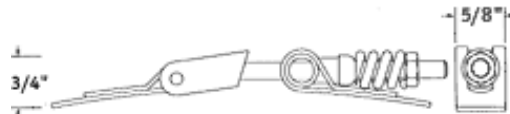
Mounting Flange is a secondary means for mounting where a built-in method is preferred with 5/16 socket head bolt.

Mounting Flange

Min. DIA. Full Band	Min. DIA. Half Band	Min. Width
3/4"	1-3/4"	3/4"



Standard Profile Barrel Nut Assembly
Welded to Sheath with 10-32 screw.



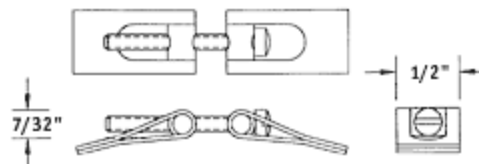
Quick Release Assembly with Spring Loaded Screw Assembly Welded to Sheath with 1/4 - 20 screw.



Bypass Strap
Supplied on less than 2" wide with terminals



1-1/4" Wide Barrel Assembly Welded to Sheath with 5/16 - 18 socket head screw.



Low Profile Barrel Nut Assembly Welded to Sheath with 6-32 screw.

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Wedge Mount-for applications where an extremely low profile is required or where access is limited. Standard with 16" leads.

Wedge Mount

Min. DIA. Full Band	Min. Width
1"	3/4" (6" max.)

TERMINAL PROTECTION



Terminal Box Cover:

2" H x 1-1/2" W x 2" L. Also available in a 2-1/4" H x 2-1/16" W x 4-1/2" L terminal box for larger clearance to terminals.

Ceramic Terminal Cover:

7/8" high x 3/4" O.D. for 10-24 thread.

PLUG OPTIONS



Plug can be attached to any lead configuration.

Armor w/Plug

Min. DIA. Full Band	Min. DIA. Half Band	Min. Width
1-1/2"	3"	1"

European Style Plug



Dimensions-3-1/2" H x 1-5/16" L x 2-15/16" W

Mating Receptacle for plugs

Euro Plug

Min. DIA. Full Band	Min. Width
3-1/2"	1-1/8"

European High Temperature Plug



Dimensions-1-3/8" H x 3-7/16" L x 1-7/8" W



Euro High Temp Plug

Min. DIA. Full Band	Min. DIA. Half Band
4"	2"

ADDITIONAL OPTIONS

- Three terminal or lead, dual voltage, three phase or ground
- Rectangular or segment band heaters provide drawing
- Outside diameter design for internally heating cylinder
- Stainless steel or Monel sheath for use in corrosive atmosphere
- Appliance pin terminals
- Full length fiberglass sleeving
- Metric Sizes