

Mica Insulated Band Heaters – Hotband™

INTRODUCTION

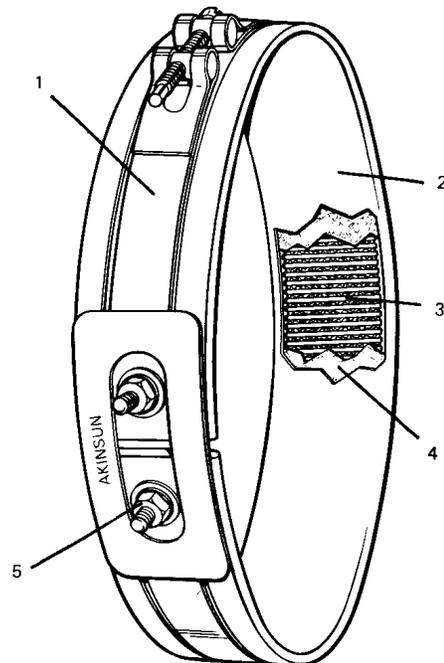
AKINSUN quality Hotband™ heaters are specifically designed to apply heat by conduction to cylindrical surfaces. The performance and heater life depends upon its ability to transfer heat from the resistance windings to the cylinder quickly and evenly.

Features

1. Clamping
A low-expansion stainless steel clamping band provides uniform fit (eliminating air gaps) and assures maximum heat distribution. This also means the hotter the job, the tighter the fit.
2. Sheath
Corrosion resistant specially treated steel sheath has good conductivity and high emissivity characteristics to efficiently transmit heat from the electrical winding to the cylinder.
3. Ribbon Element
A high quality Nickel-Chromium resistor wire is evenly wound on a selected high temperature mica to provide even distributed heat to the cylinder.
4. Mica
It has extremely high dielectric strength, low electric loss, high surface and volume resistivities, excellent thermal stability, and high shear and tensile strength. It is completely inert to most chemicals and conforms to cylinder without cracking. It is fireproof and non-flammable.
5. Termination
Sturdy terminal post design standard on AKINSUN mica band heaters will not break down electrically under normal torque applied during tightening connections. Post terminals (screw thread size is 10-32) are securely fastened to the windings for a positive, trouble free connection.

Application

Band heaters are extensively used on smooth steel nozzles, barrels of plastic molding, and extruding machines, on pipes and other cylindrical surfaces. Maximum sheath temperature is 750° degrees Fahrenheit.



Mica Insulated Band Heaters – Hotband™

ONE PIECE CONSTRUCTION

Applications

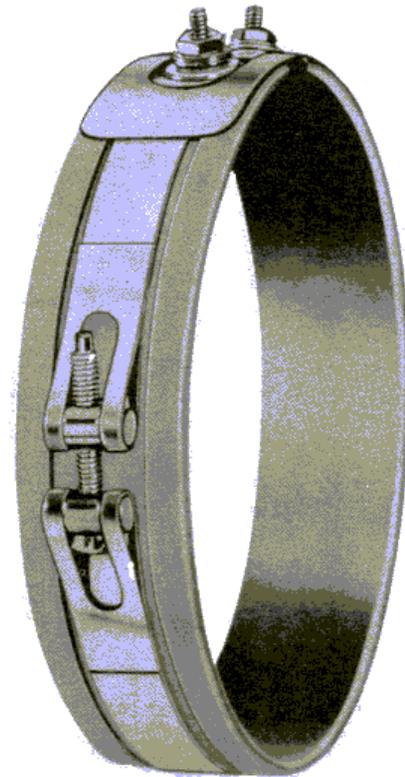
- Barrels and Dies of Plastic Molding Machines
- Extruders
- Autoclaves
- Injection and Blow Molding

Features

- Reliable Performance / Quick temperature
- Heavy Duty terminals
- Up to 12" I.D. and 12" wide
- Variety of termination and clamping
- Temperatures to 900°F (482°C)

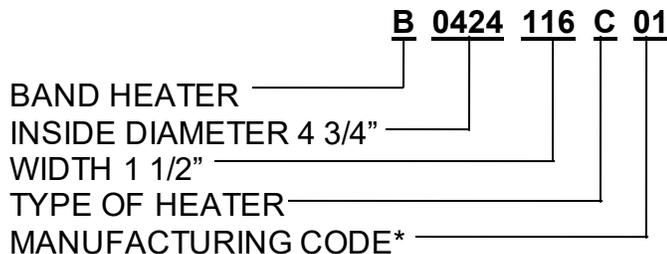
Options

- Clamping and termination style
- Low profile clamping
- Termination and thermocouple hole location
- Stainless Steel Sheath
- Custom fit designs
- Available in: 120, 208, 240, 480V
- In Single, dual or 3 phase



Band Heater Ordering Information

Order Code example: B0424116C01



*(assigned at the time of manufacturing)

FRACTION	CODE
1/32	01
1/16	02
1/8	04
1/4	08
1/2	16
5/8	20
3/4	24

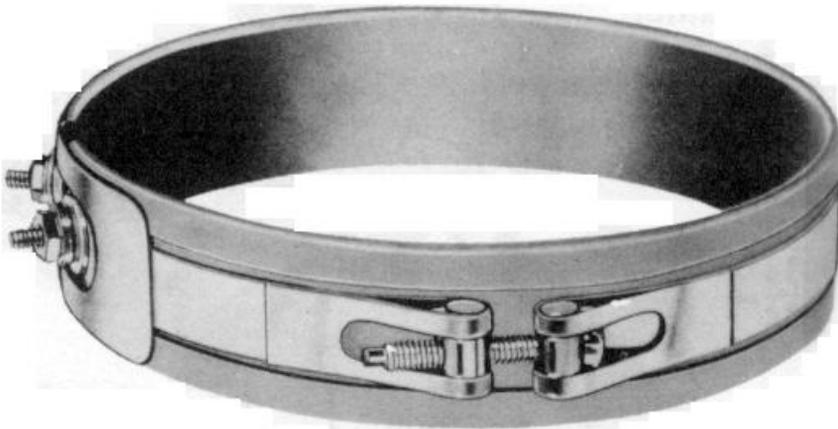
Mica Band Heaters

STANDARD SIZES AND RATINGS

INSIDE DIAMETER IN	HEATER WIDTH	VOLTS	WATTS	WATT DENSITY	CATALOG NUMBER
3/4	1	120	100	42	B2400100D01
3/4	1	240	100	42	B2400100D02
1	1	120	100	32	B1000100D01
1	1	240	100	32	B1000100D02
1	1 1/2	120	200	42	B1000116D01
1	1 1/2	240	200	42	B1000116D02
1 1/4	1	120	125	32	B1080100J01
1 1/4	1	240	125	32	B1080100J02
1 1/4	3	120	150	13	B1080300D01
1 1/4	3	240	150	13	B1080300D02
1 1/2	1 1/2	120	250	35	B1160116D01
1 1/2	1 1/2	240	250	35	B1160116D02
1 1/2	1 1/2	120	275	40	B1160116J01
1 1/2	1 1/2	240	275	40	B1160116J02
1 1/2	2 1/2	120	400	34	B1160216D01
1 1/2	2 1/2	240	400	34	B1160216D02
1 1/2	3	120	500	35	B1160300D01
1 1/2	3	240	500	35	B1160300D02
2	1	120	200	32	B2000100D01
2	1	240	200	32	B2000100D02
2	1	120	200	32	B2000100J01
2	1	240	200	32	B2000100J02
2 1/2	1	120	300	38	B2160100J01
2 1/2	1	240	300	38	B2160100J02
3	2	120	600	32	B3000200D01
3	2	240	600	32	B3000200D02
3	2	120	600	32	B3000200J01
3	2	240	600	32	B3000200J02
3 1/4	1 1/2	120	400	26	B3080116D01
3 1/4	1 1/2	240	400	26	B3080116D02
3 1/2	1 1/2	120	500	30	B3160116D01
3 1/2	1 1/2	240	500	30	B3160116D02
3 1/2	1 1/2	120	500	30	B3160116J01
3 1/2	1 1/2	240	500	30	B3160116J02
3 3/4	1	120	350	30	B3240100D01
3 3/4	1	240	350	30	B3240100D02
3 3/4	1	120	350	30	B3240100J01
3 3/4	1	240	350	30	B3240100J02
4	1 1/2	120	750	40	B4000116A01
4	1 1/2	240	750	40	B4000116A02
4	2	120	800	32	B4000200A01
4	2	240	800	32	B4000200A02
5 1/2	1 1/2	120	1000	39	B5160116A01
5 1/2	1 1/2	240	1000	39	B5160116A02
6	1 1/2	120	1000	35	B6000116A01
6	1 1/2	240	1000	35	B6000116A02
6 1/2	1 1/2	120	1000	33	B6160116A01
6 1/2	1 1/2	240	1000	33	B6160116A02
6 3/4	1 1/2	120	1000	31	B6240116A01
6 3/4	1 1/2	240	1000	31	B6240116A02

Mica Insulated Band Heaters

TWO - PIECE HEATER CONSTRUCTION



Applications

- Extruders
- Barrels and Dies of Plastic Molding Machines
- Cylinders
- Holding Tanks
- Drums
- Injection and Blow Molding Machine

TYPE: C

Clamping - Strap
Two piece construction
Specify watts & volts

STANDARD SIZES AND RATING

Dimension Inches

INSIDE DIA.	HEATER WIDTH	VOLTS	WATTS	WATT DENSITY	CATALOG NUMBER
3 1/2	1 1/2	240/480	500	30	B0316116C01
4	1 1/2	240/480	700	37	B0400116C01
4	2	240/480	800	32	B0400200C01
4 1/2	1 1/2	240/480	750	35	B0416116C01
4 3/4	1 1/2	240/480	600	27	B0424116C01
4 7/8	1 1/2	240/480	900	39	B0428116C01
5	1 1/2	240/480	700	30	B0500116C01
5	1 1/2	240/480	900	38	B0500116C02
5 1/4	1 1/2	240/480	900	36	B0508116C01
5 1/2	1 1/2	240/480	800	31	B0516116C01
6	1 1/2	240/480	1000	30	B0600116C01
6	1 1/2	240/480	1000	35	B0600116C02
6 1/4	1 1/2	240/480	750	25	B0608116C01
6 1/2	1 1/2	240/480	950	31	B0616116C01
6 1/2	1 1/2	240/480	1200	39	B0616116C02
6 1/2	2	240/480	1000	24	B0616200C01
6 3/4	1 1/2	240/480	1000	31	B0624116C01
7	1 1/2	240/480	1000	30	B0700116C01
7 1/4	1 1/2	240/480	1000	29	B0708116C01
7 1/4	2	240/480	900	20	B0708200C01
7 3/8	1 1/2	240/480	1200	35	B0712116C01
7 1/2	1 1/2	240/480	1000	28	B0716116C01
7 1/2	1 1/2	240/480	1200	34	B0716116C02
7 3/4	1 1/2	240/480	1000	27	B0724116C01
7 7/8	1 1/2	240/480	1000	27	B0728116C01
8	1 1/4	240/480	1100	35	B0800108C01
8	1 1/2	240/480	1000	27	B0800116C01
8	1 1/2	240/480	1300	35	B0800116C02
8 1/2	1 1/2	240/480	1200	30	B0816116C01
8 1/2	1 1/2	240/480	1400	35	B0816116C02
8 1/2	2	240/480	1600	30	B0816200C01
9	1 1/2	240/480	1300	31	B0900116C01
9	1 1/2	240/480	1500	35	B0900116C02

Features

- Durable quick responding
- Stainless Steel clamping band assures efficient heat transfer to work surface
- Uniform fit to + or - 1/16"
- Long -Term durability
- Heavy duty terminals
- Also available in: 120/ 240V
- Above heater can be connected in parallel circuit to be used on 240 Volts

Mica Insulated Band Heaters

Termination and Style

TYPE: A



CLAMPING-STRAP

*Post Terminals
Min. I.D. - 3/4"*

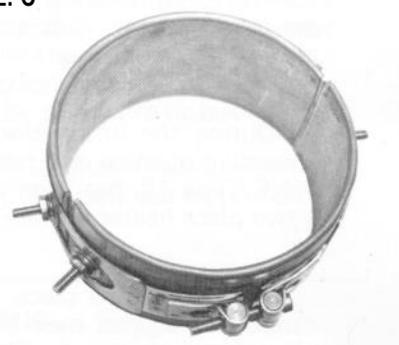
TYPE: B



CLAMPING - FLANGE

*Post Terminals.
One piece construction
Ease of installation.*

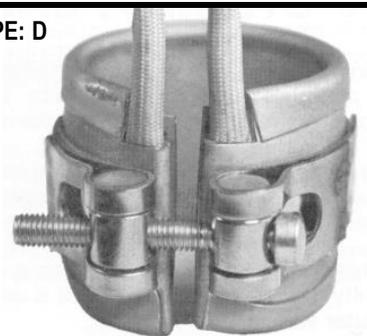
TYPE: C



CLAMPING - STRAP

*Two piece construction
Specify watts & volts per half.*

TYPE: D



CLAMPING-STRAP

Leads exit through edge on both sides of gap.

TYPE: E



CLAMPING - FLANGE

*12" Leads standard
Ease of installation and hook up.*

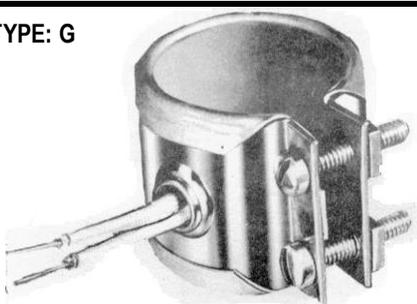
TYPE: F



CLAMPING - FLANGE

*Two piece construction
Preferred when access to barrel from side is difficult.*

TYPE: G



CLAMPING - FLANGE

*12" Leads standard
Convenient hook up due to leads exiting at one point.*

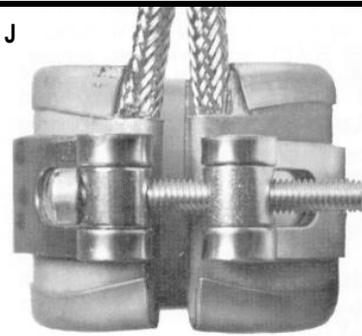
TYPE: H



CLAMPING - FLANGE

*10" Armor standard with 2" leads beyond.
Provides excellent protection to leads.*

TYPE: J



CLAMPING - STRAP

*10" Braid standard with 2" leads beyond.
Provides lead protection while maintaining flexibility.*

Mica Insulated Band Heaters

FEATURES AND SELECTOR GUIDE

TYPE: K



CLAMPING - FLANGE

10" Braid standard with 2" leads beyond.
Provides lead protection, flexibility and ease of hook up.

TYPE: L



CLAMPING - STRAP

Made with notched sheath.
Should not be re-opened more than two times.

TYPE: M



CLAMPING - STRAP

10" Armor standard with 2" leads beyond for good lead protection.

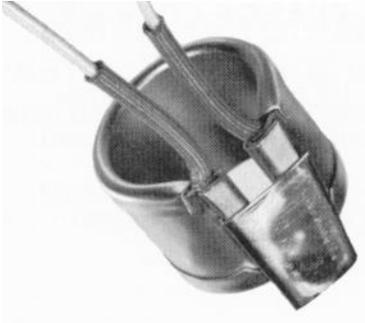
TYPE: N



CLAMPING - FLANGE

Plug is mounted on a bracket.
Specify location of plug.

TYPE: P



CLAMPING - WEDGE LOCK UP

Leads exit through edge or opposite the gap.
Preferred where low profile mounting is desired.

TYPE: Q



CLAMPING - FLANGE

Hinge Band Heater Recommended for easy mounting on cylinders.
Also available with leads.

TYPE: R



CLAMPING - FLANGE

Rectangular Band Heater
Provided in one or two piece construction.

TYPE: S



CLAMPING - STRAP

Leads exit through edge, inside gap, one from each side of gap.

TYPE: T



CLAMPING - STRAP

Leads in Metal Braid exit through edge, both leads at same side of gap.