

European Nozzle Band Heaters



For injection molding machines, blow molding, etc. We would like to introduce five different types of band heaters. Special construction designed to work in harsh environments where contamination is a problem or high temperatures are required.

European Nozzle Band Heaters

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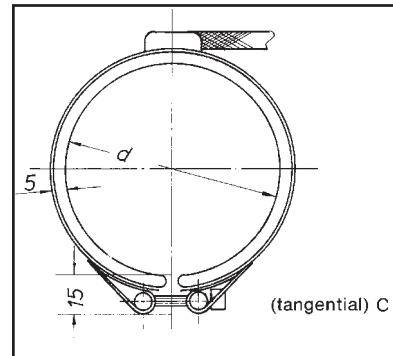
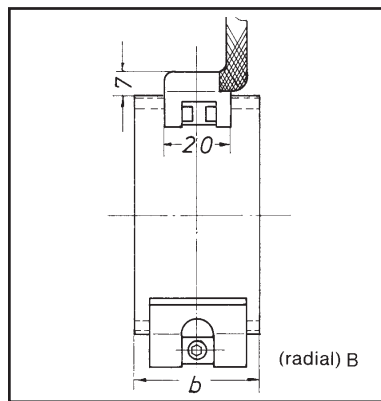
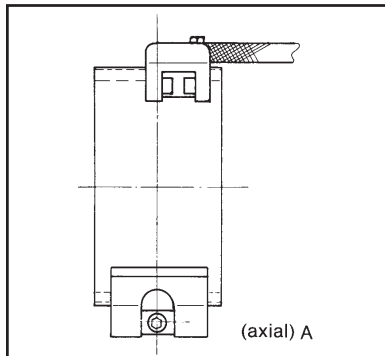
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TYPE N NOZZLE BAND HEATER with clamping band (not plastic proof construction)



Technical Data:

Minimum ID:	7/8"
Minimum width:	5/8"
Watt Density:	Max 36 W/sq. inch
Thermocouple hole:	Hole diameter of 5/16 is available from a minimum of 1"
Clearance:	Please consult the sketches for dimensions of the clearance
Connection of lead:	Braided sheathed leads (as standard) with 3 wire (one ground wire), length as requested
Exit types:	Axial: Type A Radial: Type B Tangential: Type C



TYPE DG BAND HEATER

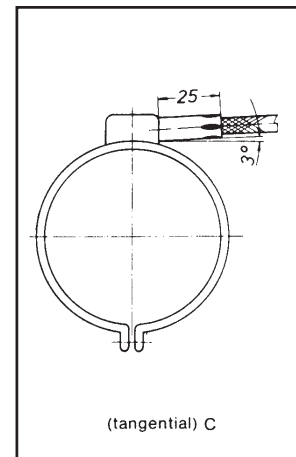
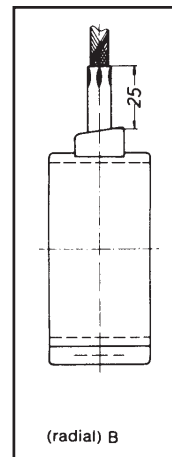
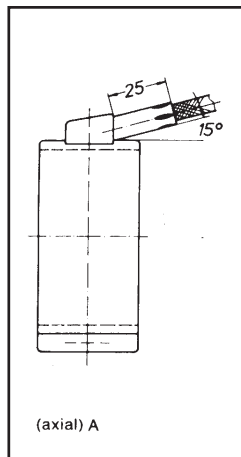
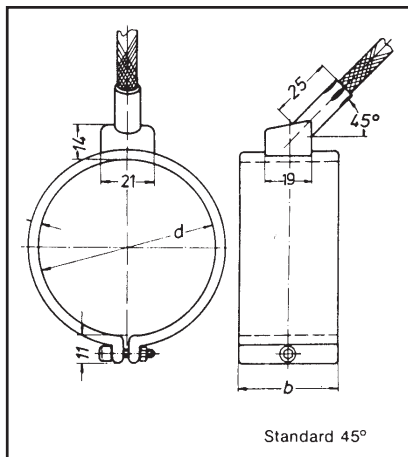
Brass Sheath Plastic Proof (Working temperature up to 540 degree F)

This completely sealed mica band heater protects against penetration of plastics and moisture.



Technical Data:

Sheath material:	Brass (standard). Please note brass is not recommended for PVC material. In that case, we recommend stainless steel material (AISI 321)
Watt Density:	Maximum 36 W/sq. inch
Thermocouple Hole:	Technically possible, please consult HOTSET
Table:	Please consult the table of possible wattage (not stock sizes)
Clearance:	Please consult the dimensions of sketches for clearance
Connection of lead:	Braided metal sleeving sheathed (standard) leads with 3 wires (one ground wire), length as requested
Exit type:	Axial: Type A Radial: Type B Tangential: Type C



Dimension and Wattage table for Mica Band Heater Type DG

ID MM	Band Width in mm										
	16	18	20	22	25	30	34	38	44	48	55
28	50	70	70	–	–	–	–	–	–	–	–
30	60	70	70	80	90	100	–	–	–	–	–
32	–	–	–	–	–	100	–	–	–	–	–
35	60	85	85	85	100	130	140	150	–	–	–
40	80	100	100	100	120	140	150	180	200	225	–
			75 120		150						
41	80	100	100	100	120	140	150	125	200	225	–
42	–	–	–	–	–	140	150	180	200	225	–
45	80	100	100	120	140	150	180	200	225	250	–
46	80	100	100	120	140	150	180	200	225	250\	–
48	90	100	100	120	150 215	180	200	225	250	280	–
50	60 90	120	120	140	150	180	200	225	250	280	300
55	100	120	120 150	140	160	200 250	225	170 220 250	280	300	300
56	100	120	120	163	160 215	200	225	250	280	300	300
57	100	120	120	160	160	200	225	250	280	300	300
58	100	140	140	160	180	200 250	225	250	280	300	300
60	120	140	140	160	180	225 300	250	280	300	340	340
62	–	–	–	–	180	225	250	280	300	340	340
65	120	150	150	160	200	225	250	280	315	355	400
67	120	160	120	180	200	225	280	300	335	375	400
68	120	160	160	180	200	225	280	300	335	375	425
70	140	160	160	180	200	250	280	250 300 350 460	355	400	450
75	140	180	180	200	200	250	280	300	355	400	450
78	–	–	–	200	220	–	–	–	–	–	–
80	140	180	180	200	225	280	300	335	375	425	475
82	150	180	180	200	225	280	300	335	375	425	475
85	150	180	180	200	225	280	300	355	400	450 500	500
90	160	200	200	225	250	300	335	375	425	450	530
100	180	200	200	250	280	335	355	400	450	475	560

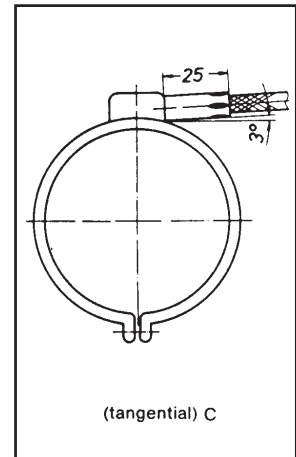
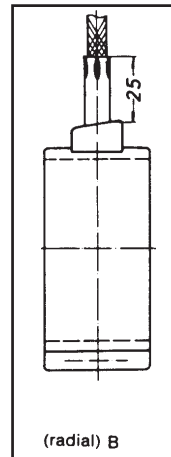
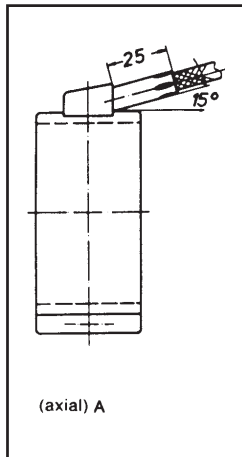
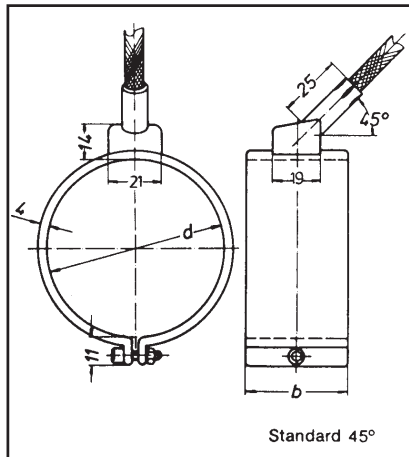
Type DGS High Watt Nozzle Band Heater Stainless Steel Sheath - Plastic Proof (Working temperature 575 degree F)

For higher processing temperature and higher wattage of plastic proof nozzle band heater, the type DGS has been developed.



Technical Data:

Sheath Material:	Stainless Steel (AISI 321)
Insulation Material:	Mica based with additional high temperature insulation
Watt Density:	Maximum 42 W/sq. inch
Thermocouple Hole:	Holes and cut outs are possible, please consult HOTSET
Clearance:	Please consult dimensions of sketches
Connections:	Braided metal sleeving sheathed leads (as standard) with 3 wires (one ground wire), length as requested.
Exit Type:	Standard 45 degree Axial: Type A Radial: Type B Tangential: Type C



Dimension and Wattage table for Mica Band Heater Type DGS

ID MM	Band Width in mm										
	16	18	20	22	25	30	34	38	44	48	55
30	100	100	110	120	140	160	190	210	240	270	310
35	110	110	130	140	160	190	220	250	280	310	350
40	120	130	150	160	180	220	250	280	310	350	400
45	130	150	160	180	210	250	280	320	360	400	420
50	150	160	180	200	230	270	310	350	370	420	430
55	160	180	200	220	250	300	340	380	390	430	440
60	170	190	210	240	260	310	350	400	430	440	460
65	180	200	230	250	290	300	360	400	–	–	–
70	190	220	250	260	300	340	380	–	–	–	–
75	200	240	270	290	310	350	–	–	–	–	–
80	250	270	300	320	340	–	–	–	–	–	–



TYPE DGK HIGH WATT NOZZLE AND HEATER
Plastic Proof (Working temperature up to 845 degree F)
With extra clamping band of nickel plated steel sheath .04" thick.



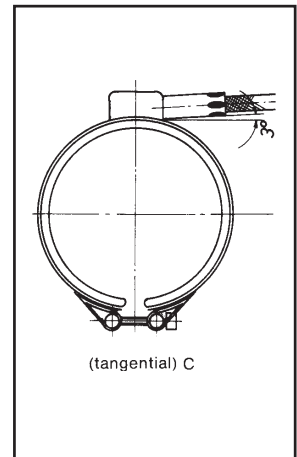
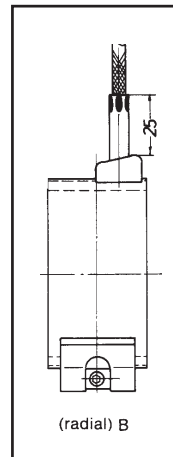
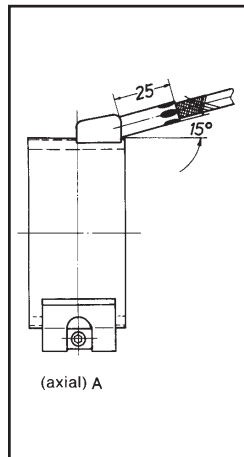
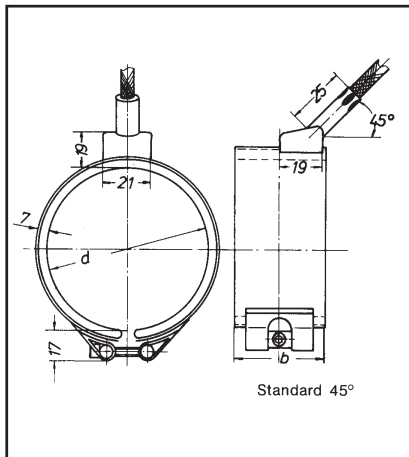
Technical Data:

Sheath Material:	Stainless Steel (AISI 321)
Insulation:	Special ceramic insulation and compressed band construction
Clamping band:	The additional clamping band provides a very good heat transfer to the nozzle.
Widths:	Widths are limited to 7/8", 1 1/4", and 1 1/2"

For this type of heater, thermocouple hole and cut outs are not possible

Special options: Thermocouples can be hard soldered on a .04" thick brass sheath.

It is also possible to supply with a hard soldered thermocouple on a brass cylinder (our thermocouple Type TEF19). When utilizing the hard soldered Brass Thermocouple.



Dimension and Wattage table for Mica Band Heater Type DGK

ID MM	Band Width in mm		
	22	30	38
38	160W	–	–
40	180W	250W	300W
45	200W	250W	325W
48	220W	275W	325W
50	220W	275W	350W
55	250W	325W	400W
56	250W	325W	400W
58	250W	325W	400W
60	275W	350W 430W	450W
65	275W	375W	450W
68	300W	400W	500W
70	300W	400W	500W
75	325W	450W	550W
80	325W	450W	55W
85	375W	500W	600W
90	375W	500W	650W
95	400W	550W	650W
100	400W	550W	700W

NOTES:

Blank area for notes, consisting of 12 horizontal grey bars.

HIGH PERFORMANCE NOZZLE BAND HEATERS Without Clamping Band

These are sealed heating element particularly suited to heating hot runner tools and nozzles. Heating of any length is possible by combining several heaters. The high performance nozzle heater without a clamping band are a further development of band heaters. They are particularly useful for heating pressure casting machines, injection molding, blow molding machines.

Advantages:

High capacity (up to approx. 194 w/in sq.)

Simple to mount

Tight fit (tolerance of $-0 +.0007$)

Thin wall thickness

Casting material stainless steel

Excellent heat transfer from inner case

High surface loading capacity (approx. 51.6 W/in sq.)

Case Material: Stainless steel AISI 321, edges and opening sealed for optimum protection against contamination.



Connection: 20" long pure nickel wire, fiberglass insulated sleeving resistant to temperatures of up to 662 degree F.

For higher temperatures we recommend insulation in the form of ceramic beads.

Voltages: 230V. Other operating voltages and dimensions on request.

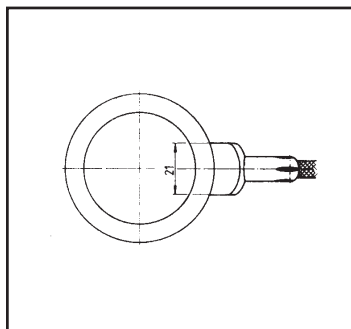
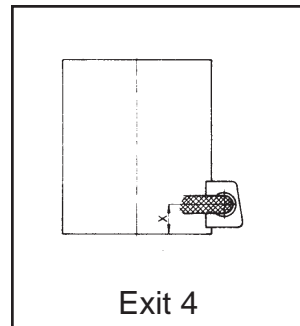
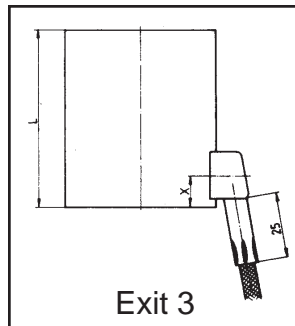
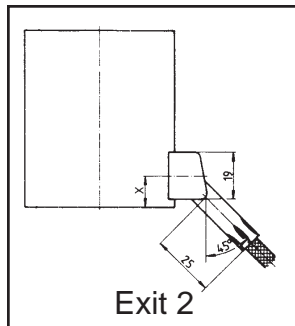
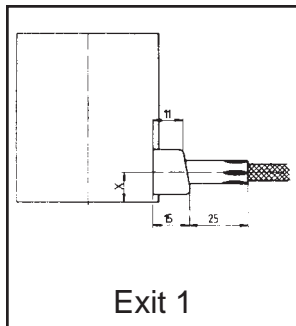


Table of Dimensions and Performance Nozzle Band Heaters

Diameter		Dimensions in mm													
i.d.	o.d.	30	40	50	60	70	75	80	90	100	110	120	130	140	150
12	22	110 300	150 300	190 300	230 400										
15	29	140 300	190 300	240 300	280 400										
16	30	150 300	200 300	250 300	300 400	350	380	400							
18	32	300 400	300	300	400	400	420	450							
20	34	165 300	220 300	275 300	330 400	380	410	440	500	550					
22	36	300 400	300 400	300	400	380	420	450	500	550					
24	40	300 400	240 300	300	400	420	450	480	540	600	660				
25	40	180 300	240 300	300	360	420	450	480	540	600	690	750			
27.5	42	200	240 300	300	360	420	450	480	540	600	760	820			
30	45	220 300	290 400	360	430	510	540	575	650	720	820	900	980	500 1050	500 1100
32	47	240	320	400	480	560	600	640	720	800	up to max. 5 amp. For other dimensions Please consult factory.				
35	50	260	350	440	530	615	660	700	790	880					
40	55	300	385	480	575	675	720	770	865	960					
42	57	315	420	520	630	730	790	840	950	1000					
45	60	350	400 480	500 600	600 720	840	900	950	980	1100					
48	63	360	480	600	720	840	900	950	980	1100					
50	65	375	500	625	750	875	940	1000	1125	1250					
ab 1000W	73														
55	70	410	550	690	810	940	1000	1100	1150	1250					
ab 1000W	80														

HIGH PERFORMANCE NOZZLE BAND HEATERS - With Clamping Strap

These are a further development of band heaters. They are used particularly for heating pressure casting machines, injection molding, blow molding machines.

Advantages:

High surface loading capacity (approx. 51.6 W/in sq.)

Simple to mount

Case Material: Stainless steel AISI 321, edges and opening sealed for optimum heat transfer.

Connection 20" long pure Nickel leads

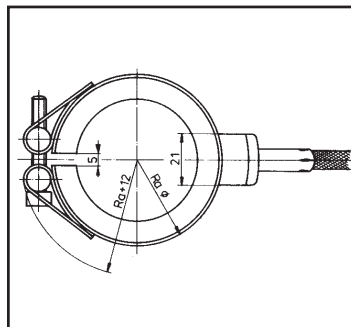
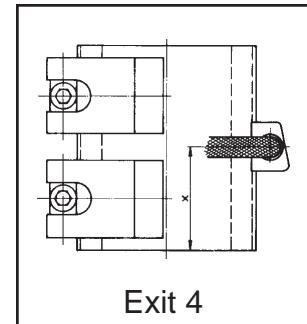
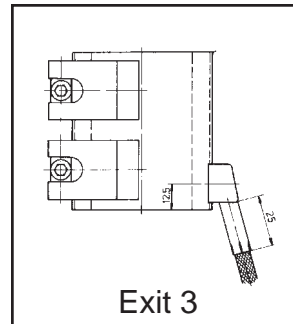
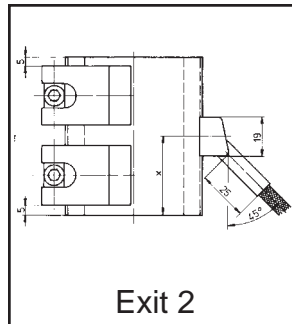
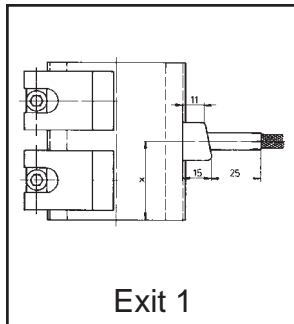
Glass fiber insulated sleeving resistant to temperatures up to 662 degrees F

Possible exit types 1, 2, 3 or 4



For higher temperatures we recommend 20" leads having ceramic bead insulators with an additional special spiral sheath covered with a braided metal sleeve.

Longer leads can be supplied upon request.



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