

Duraband Specifications

Duraband® Standard Specifications and Tolerances

PERFORMANCE RATINGS

Maximum Temperature: Standard Sheath: 900°F (482°C)

Nominal Watt Density: 20-45 W/in² (3-7 W/cm²)

Maximum Watt Density: Dependent on heater size and operating temperature.

ELECTRICAL RATINGS

Maximum Voltage: 480 VAC

Dual Voltage or 3-Phase:

Available depending on heater design

Maximum Amperage: lead wire termination: 12.5 amp
screw terminations: 8-32UNF—20 amp; 10-32UNF—25 amp

Resistance Tolerance: +10%, -5%

Wattage Tolerance: +5%, -10%



Exposed electrical wiring on band heater installations is a violation of Electrical Safety Codes including O.S.H.A.

PHYSICAL SIZE CONSTRUCTION LIMITATIONS

Minimum Width: 3/4" (19.1 mm)

Width Tolerance: ±1/16" (1.59 mm)

Minimum Inside Diameter: 7/8" (22.1 mm)

Nominal Gap: 3/8" (9.5 mm)—If a larger gap is required for probes or thermocouples, specify when ordering.

BUILT-IN BRACKETS

Heater Width	Number of Brackets
1-1/2" to 3" (38-76 mm)	1
3-1/8" to 5" (79-127 mm)	2
5-1/8" to 6-7/8" (130-145 mm)	3
7" to 10" (178-254 mm)	4
10-1/8" to 15" (257-381 mm)	5

If tighter tolerances are required, consult Tempco.

Minimum ID and Width for Construction/Clamping Styles

Style	Min. ID		Min. Width	
	in	mm	in	mm
NB	2	50.8	1-1/4	31.8
NS	3	76.2	1-1/4	31.8
NE	2-1/2	63.5	1-1/4	31.8
SB	7/8	22.1	3/4	19.1
SS	2	50.8	3/4	19.1
SE	2-1/2	63.5	1-1/4	31.8
FB	1	25.4	3/4	19.1
FS	2	50.8	3/4	19.1
FE	2-1/2	63.5	1-1/4	31.8
SL	4	101.6	1-1/4	31.8
NSL	4	101.6	1-1/4	31.8
NEL	4	101.6	1-1/4	31.8
LT	7	177.8	1-1/2	38.1
LS	7	177.8	1-1/2	38.1
LE	7	177.8	1-1/2	38.1
TWL	1	25.4	1	25.4
RNB	5-1/2	134.7	1	25.4
RNS	10	254	1	25.4

Recommended Segments by Inner Diameter

Number of Segments	ID Range in	ID Range mm
1	15-1/2" & Smaller	393.7mm & Smaller
2	15 1/2" to 28"	393.7mm to 711.2mm
3	15 1/2" to 45"	393.7mm to 1143mm
4	15 1/2" to 56"	393.7mm to 1422.4mm
6	15 1/2" to 86"	393.7mm to 2184.4mm
8	25" to 96"	393.7mm to 2438.4mm



Note: Refer to individual descriptions for further information. Actual heater minimums will be determined by the combination of termination and construction/strap styles.