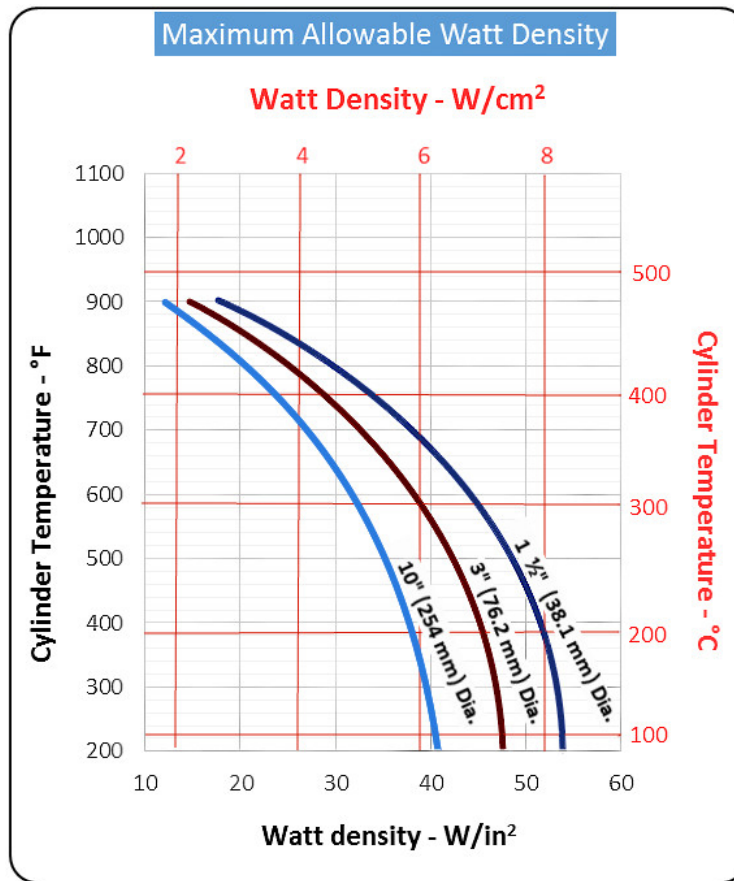


Calculating Safe Maximum Wattage for Your Heater

Mica Band Heater – Maximum allowable Watt Density



Heated Area x Maximum Watt Density:

1.) Calculate the heated area of the Mica Band heater. Subtract the non-heat area from the total area in contact with the cylinder ($3.14 \times \text{I.D.} \times \text{width}$). Subtract the non-heat area caused by holes, slots or oversized gaps.

2.) Determine the maximum watt density of the Mica Band heater by referring to the Maximum Allowable Watt Density graph. Apply necessary correction components to your band heater:

- Heaters 2 1/4" (57 mm) to 5" wide (127 mm): Multiply watt density by 0.8.
- High expansion cylinders (aluminum or brass): Reduce the watt density by 3 W/in² (0.46 W/cm²).
- Heaters 2 1/4" – 5" wide installed on a high expansion cylinder: Reduce watt density by 3 W/in² (0.46 W/cm²) only.
- For regular cylinder surfaces other than smooth, machined finish: Reduce watt density by 3 W/in² (0.46 W/cm²).
- Heaters that will be insulated or enclosed: Contact the manufacturer for specific watt densities.