

NATIONAL PLASTIC HEATER, SENSOR & CONTROL INC.

TOLL FREE: 1-877-674-9744



Spiral Wrap Heaters- Pre-formed Flexible Silicone Rubber Heater Technology For Small Diameter Rigid & Flexible Pipes & Tubes

SPIRAL TECHNICAL DATA SHEET

DESCRIPTION

NPH silicone spiral wrap heaters to suit pipe work and tubular applications, however, manufacturing techniques for standard preformed heaters meant that for small diameter pipes the heater could only be manufactured in short lengths for rigid pipe work. Through continued product development, NPH can now offer the Spiral Wrap Heater range to suit flexible or rigid pipes. All in all a great flexible heater strip pre-formed spirally to fit various small diameter pipes/tubes/lines with consistent contact for better temperature uniformity.

FEATURES & BENEFITS

- Suitable for straight or curved pipe sections
- Robust spiral heating element
- Easy to install
- Can be supplied with incorporated temperature sensor for accurate control with a suitable controller
- NPH can supply stand alone heaters or parallel option to cater for longer pipe runs

APPLICATIONS

- Fluid or Gas delivery systems
- Semi-conductor processes
- Freeze/Frost protection
- Anti-condensation

SPECIFICATIONS

- Heater material is robust silicone rubber coated glass fiber fabric
- Maximum operating temperature of 392°F/200°C
- Standard range to suit 1/4" (6.35mm) outer diameter pipe in six different lengths
- Custom designs available to suit customer specific pipe diameter, length and voltage.
- Typical power/watt density approximately 0.3W/cm²
- Supplied with 0.5m PTFE supply leads as standard for single heater installation but can also be manufactured with 2 pairs of supply leads for parallel connection in a multi-heater installation
- Optional temperature sensors, typically surface mounted Thermocouple or RTD
- Can be manufactured with UL or CSA approvals



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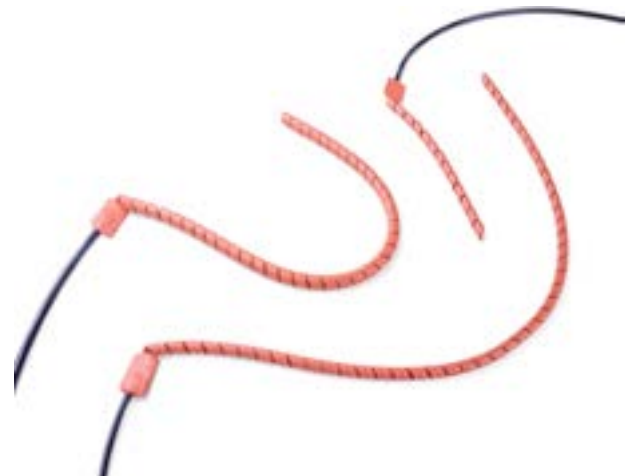
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MATERIAL	Spiral wire on a fibreglass cord & silicone rubber and glass fibre sheets
THICKNESS	1.5mm
TEMPERATURE RANGES	-60°C - 200°C
THERMAL CONDUCTIVITY	0.22 (Watt/Metre/K)
POWER RATING	0.26 - 0.3W/cm ²



CHARACTERISTICS

Spiral heaters have a good resistance to the following; weather and ageing, fungus and bacteria, acetone, alcohol, formic acid, brake fluid, acetic acid, greases, hydrochloric acid 10%, sulphuric acid 10%, waxes and plasticisers. In addition to this, the heaters have adequate gas permeability and good steam resistance up 130°C and 2.5 bar respectively.



Request For Quotation

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www.nphheaters.com

5839, 16TH SIDEROAD, SCHOMBERG, ONTARIO, L0G 1T0, CANADA

sales@nphheaters.com

TEL: 905-859-8225