

## HOLROYD

BESPOKE SURFACE HEATING ELEMENTS

### APPLICATIONS:

Holroyd manufacture spiral heaters using similarities to the silicone wire wound product range. However, spiral heaters are designed to suit a variety of flexible or rigid small diameter pipes which our other products may not always be suitable for. These heaters are appropriate for use in many applications including; fluid or gas delivery, semiconductor processes, frost protection, anti-condensation and heat loss maintenance. The uses for spiral heaters are ever increasing for pipe heating applications requiring surface heating up to 200°C. We have standard sizes for our spiral heaters but they can be manufactured bespoke to the customers specification in a range of different diameters and lengths.

### MAIN POINTS:

- Suitable for Straight or Curved Pipe
- Robust Spiral Heating Element
- Easy to Install
- UL & CSA Approval Available
- IP64 Protection
- Incorporated Temperature Sensors Available
- Stand-Alone Heaters or Parallel Options Available
- Standard Sizes of 1/4" (6.35mm)



QUALITY



RELIABILITY



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## CONSTRUCTION:

Constructed using a spiral wire element encased between two layers of silicone rubber, spiral heaters are well suited to fit curved or straight pipework. The standard range is suitable to suit ¼" (6.35mm) outer diameter and can be supplied in six different lengths. With a maximum operating temperature of 200°C and the option to add a variety of temperature sensors, spiral heaters provide an ideal solution to heating pipes in many applications.

## CHARACTERISTICS:

Spiral heaters have good resistance to the following; weather & ageing, fungus & 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.

## HEALTH & SAFETY:

Spiral heaters are intended for use in industrial electric apparatus. They correspond to the BS EN 60335-1:2012. The heater has to be operated in accordance with these standard and regulations and should be installed on an electrical system protected by a residual current circuit breaker.

## TECHNICAL DATA

THICKNESS	1.5mm
TEMPERATURE RANGES	-60°C - 200°C
POWER RATING	0.26 - 0.3W/Cm2
THERMAL CONDUCTIVITY	0.22 (Watt/Metre/K)
MATERIAL	Spiral wire on a fibreglass cord & silicone rubber and glass fibre sheets

PART NO.	LENGTH (80% SURFACE COVERAGE)	EXTENDED LENGTH (APPROX. 60% SURFACE COVERAGE)	VOLTAGE	WATTS	POWER DENSITY W/CM2
HOL001-2002	205mm	250mm	120	11	0.26
HOL001-2003	375mm	440mm	240	19.5	0.27
HOL001-2004	475mm	550mm	240	25	0.27
HOL001-2005	612.5mm	720mm	240	33	0.28
HOL001-2006	780mm	900mm	240	45	0.30
HOL001-2007	1020mm	1150mm	240	52	0.27