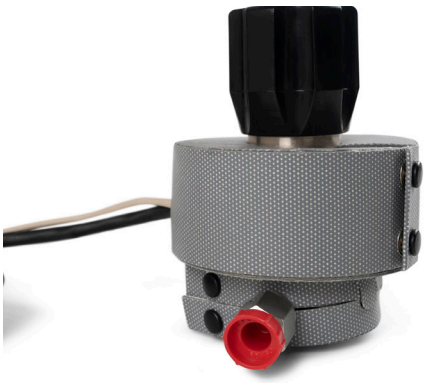
Gas & Pump Line Technical Datasheet

# HOLROYD

BESPOKE SURFACE HEATING ELEMENTS



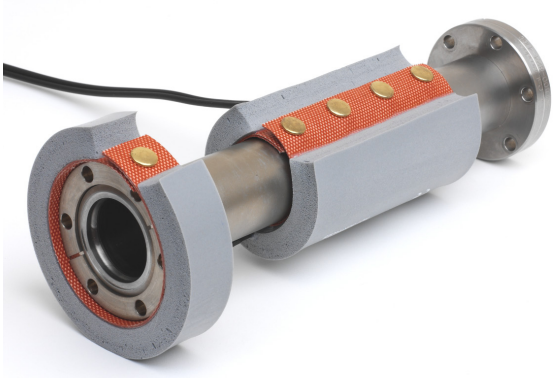
## OVERVIEW:

Holroyd Components gas and pump line heaters are designed to regulate temperatures in order to prevent condensation in the line. As with all our heaters, these can be designed and produced to your bespoke specifications.

## APPLICATIONS:

Gas & pump line heaters are most frequently used as part of the semi-conductor process, in which gases such as Tetraethyl Orthosilicate (TEOS), Boron Trichloride (BCl3), Aluminium Chloride (AlCl3), Chlorine Trifluoride (ClF3) and Dichlorosilane (DCS) condense at low temperatures.

Should this occur, it could result in wafer defect. Gas and pump line heaters consistently heat the lines and provide a simple solution and prevent condensation build up. The optimum line temperature will vary depending on the process.



## MAIN POINTS:

- Etch Foil & Wire Wound Technology
- Precise, even heating
- Flexible & lightweight
- Moisture & chemical resistant
- Up to IP65 Protection
- Maximum temperature of 230°C
- UL & CSA approval available
- Bespoke designs

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Technical Data

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## HEALTH & SAFETY:

Gas & pump line heaters are intended for use in industrial electric apparatus. They correspond to BS EN 60335 1:2012. The heater has to be operated in accordance with these standards and regulations and should be installed on an electrical system protected by a residual-current device (RCD).

## CHARACTERISTICS:

Heaters can be designed to specific power densities, use customer specified thermal controls, parallel and series connections, inbuilt neon temperature/fault indication, customer specified connectors, gate and isolation valves, pipe assemblies, pumps, generic valves and pipe runs including T-sections, elbows and bellows.

## FIXING:

- Snap Fasteners
- Velcro
- Strap & buckle

## THERMAL CONTROL OPTIONS:

- PT100 / PT1000's
- Thermocouples
- Bi metal thermostats
- Thermal fuses
- Target temperature visual indicators
- Thermistors

| TECHNICAL DATA | |
|---|---|
| CYLINDRICAL HEATER DIAMETER | Min diameter - 10mm (0.4in)<br>Max diameter - 200mm (8.0in) |
| HEATER THICKNESS | 1.5mm (0.06in) -<br>2.2mm (0.09in) |
| INSULATION | Closed cell silicone foam<br>8mm (0.25in) / 12mm (0.5in) |
| MAX TEMPERATURE | 230°C (446°F) |
| VOLTAGE | Max 575v |
| POWER DENSITY | Max 0.8w/cm2 |