

# HOLROYD

BESPOKE SURFACE HEATING ELEMENTS

## APPLICATIONS:

Holroyd GRP/GRE heating blankets are designed for the fast curing and joining of PE & GRE Pipes as well as being used in a variety of other purposes (i.e. curing GRP, GFRP, RTR and FRP).

These pipe curing heaters are designed using durable, flexible and lightweight materials with the ability to heat to a maximum temperature of 180°C. The heaters come without insulation so can easily be wrapped around the pipes. This results in perfect contact and even heat distribution. The heaters are also supplied with graded heat zones to allow precise even heating when the heater is on the pipe.

Holroyd GRP/GRE heaters come installed with either a 180°C bimetal limiter or PT100 sensor (which requires a separate temperature controller). Alternatively we can supply an inline digital thermostat with a simple plug and socket for an easy to use control system.

Our heaters are available in many standard sizes with different outputs and bespoke specifications are available on request.

## MAIN POINTS:

- Double insulated construction.
- Unique cable stain relief.
- Optimal curing of the composite materials, carbon, and epoxy prepreg.
- Available with PT100 sensor combined with digital thermostat or with a bimetal limiter.
- Silicone power cable.
- Many stock sizes available.
- Bespoke options produced upon request.



QUALITY



RELIABILITY



CREATIVITY



SERVICE



COMMUNITY

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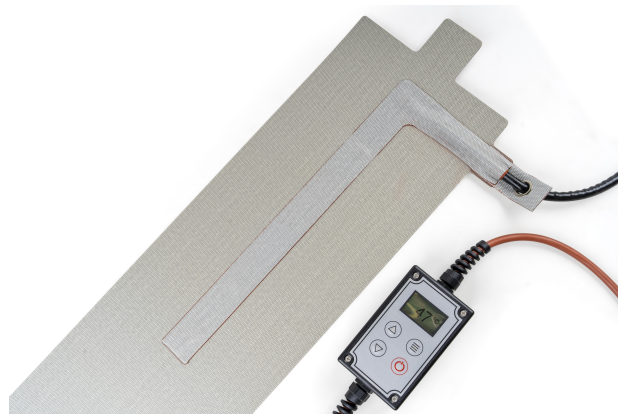
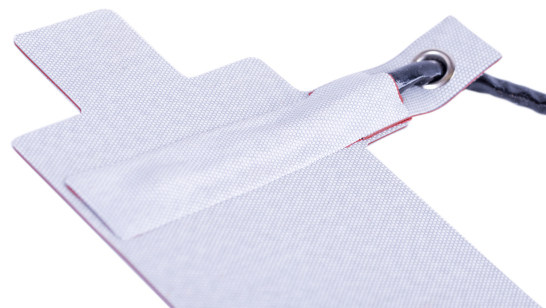
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**CHARACTERISTICS:**

GRP/GRE heaters have a good resistance to the following; photodegradation, weathering, 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 to 130°C and 2.5 bar respectively.

**INSTALLATION:**

Installation of the heaters should only be done after the resin has solidified. Each heater is specifically designed to suit a certain diameter range, care must be taken to use the correct heater on the correct diameter. The blanket is wrapped around the pipe and should overlap. As the blanket is fitted it must be tightly fitted to the wall of the pipe to avoid air gaps. The blanket can then be held in place using silicone straps, securing the heater against the pipe surface. This gives a precise fit for the best possible cure.

**CONTROL:**

The GRP/ GRE heaters can be supplied with various forms of control, including PT100's & Bi Metal Thermostats. For closer, more accurate control we are able to supply our Inline Digital Thermostat with a plug and socket which provides a complete control system for these heaters.

For fiberglass pipe installation (GRE pipes / GRP pipes), standard sizes are available and should be confirmed by customer upon order. Holroyd's standard sizes are listed in the table below.

Pipe Size inch (mm)	Width mm (A)	Length mm (B)	Temperature Control
1" - 2" (25 - 50)	100	300	Pepi or PT100
3" - 4" (75 - 100)	100	540	Pepi or PT100
6" - 8" (150 - 200)	160	970	Pepi or PT100
10" - 12" (250 - 300)	220	1410	1/2" Disc or PT100
14" - 16" (350 - 400)	250	1700	1/2" Disc or PT100
18" - 20" (450 - 500)	310	2070	1/2" Disc or PT100
22" - 24" (550 - 600)	350	2420	1/2" Disc or PT100