

### CE Statement

In line with the company policy of continued improvement and incorporation of the latest development on electrical construction and safety of our products, we are pleased to issue the following statement with respect to the EEC Directive 768/2008/EC on CE Marking of electrical products.

The insulation system and construction of the Heaters meet the requirements of all the relevant EEC Directives including the Low Voltage Directive (LVD) and the Electromagnetic compatibility Directive (EMC).

To meet these requirements "The Heaters" are produced to meet or exceed the requirements of all the relevant national and international standards.

In line with these directives we have "CE" marked the heaters this being The Recognised Declaration within the European Economic Area (EEA) of compliance with EEC Directives.

As required by the EEC Directives, 2006/95/EEC (LVD) and 2004/108/EC (EMC), the following are held at our Registered Company Office and Main Factory:-

- Technical Files,
- Design details and drawings,
- Construction details and drawings,
- Test details,
- Third party test reports where applicable.



مؤسسة عبر النفط للمقاولات العامة  
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Engineering & Construction

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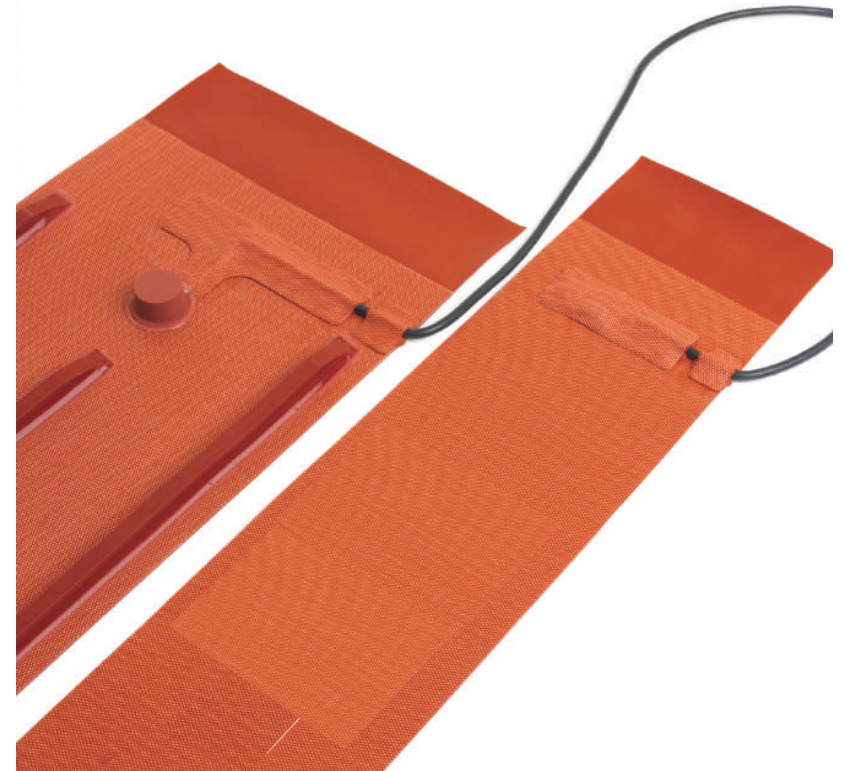
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مؤسسة عبر النفط للمقاولات العامة  
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## Silicone GRE heat curing blankets



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# Contents

## Introduction

Our heating blankets are specially designed to heat cure adhesive-bonded joints in pipe and fittings. Requiring either 120 Volts or 230 Volts alternating current, the blankets are quickly and easily applied. The Heating Blankets are designed to provide thermostatically controlled heat to the joint, assuring maximum joint strength and safety. First Trace supplies two types of heating blankets depending on the pipe diameter. Type A for 25 - 600 mm diameter and Type B for 750 - 1900 mm diameter.

**TYPE A:** Single Zone Heating Blankets with Silicone Spacers

This type of HB is placed around the bonded Joint of Pipes / Fittings. Silicone Spacers at one end (on larger diameters only) minimizes possibility of over temperature or burn out at the overlapping areas. The Type A standard HB is divided into the following diameter groups:-

Diameter Group		Standard Dimensions	
Max.-Min. Diameter (mm)		Length (mm)	Width (mm)
25-50	(1-2 inch)	300	100
80-100	(3-4 inch)	500	100
150	(6 inch)	700	140
200	(8 inch)	900	160
250-300	(10-12 inch)	1270	200
350-400	(14-16 inch)	1700	300
450	(18 inch)	1900	300
500	(20 inch)	2270	300
600	(24 inch)	2400	300

- Each group is specific to either one or two nominal sizes as indicated above
- Heaters are available in 110/220 Volts options. Standard = 220 volts;
- Made to Order Heaters available

## Technical data

For nominal voltage, mains frequency and nominal performance please refer to specification:-

Electrical Protection	Class II
System of protection	IP 64'
Temperature sensor/ controller	Refer to specification
Heating blanket withstand temperature maximum	200°C
Dimensions and weight	Refer to specification

## TYPE B: Stud Type Heating Blankets

This type of HB comes with press stud connections at both ends and is ideally suited for large diameter heating requirements. The stud connection permits multiple blankets to be stapled together thus increasing the overall length at a constant blanket width.

The Type B HB comes in three standard dimensions as described below:-

Type	Standard Dimensions	
(1/2/3)	Length (mm)	Width (mm)
Type 1	1200	450
Type 2	750	450
Type 3	350	450

This blanket design offers great flexibility in application since different configurations can be setup using a limited number of blankets. For example, HB for all major pipe diameters from DN 750 to DN 1900 can be configured using the blankets in tandem as detailed below.

Pipe	Blanket Type and Number			Total
	Type 1 (1200 x 450)	Type 2 (750 x 450)	Type 3 (350 x 450)	
DN 750	2		1	3
800	2		1	3
900	2	1		3
1000	3			3
1100	3		1	4
1200	3	1		4
1300	4			4
1400	4		1	5
1500	4	1		5
1600	4	1	1	6
1700	4			5
1800	5		1	6
1900	5	1		6

## Maintenance and Care

Maintenance and care is performed according to the standards listed under 'Safety Regulations'.

The function of the temperature controlling and limiting safety device must be checked and the surface and connection cable should be inspected for visible damage at least once a year.

## Malfunction

Heating panels or their cables that show visible signs of damage or are not operating correctly should be disconnected from the electrical supply and removed from the installation immediately.

## Handling precautions

- 1) Do not lift or hold the blanket by the power cord.
- 2) Do not apply alternating current (A.C.) when standing in water, or on wet surfaces.
- 3) Apply alternating current only at the voltage marked on the heating blanket.
- 4) Do not step on the blanket or create sharp folds in it.
- 5) Inspect the blanket and power cord for loose wire connections and bare wires prior to applying alternating current.
- 6) Make sure the blanket is operating and heats up in all heating zones where applicable.
- 7) For required curing times and detailed assembly instructions, please refer to the applicable joint Assembly Instructions.
- 8) Use the blanket only for pipe sizes as indicated on the blanket.

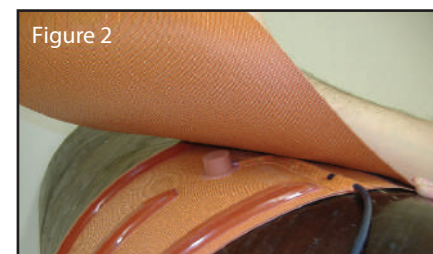
For further information regarding the use of the blankets, please refer to the respective Assembly Instructions.

## Installation instructions

### TYPE A:

Each blanket is suitable to cover a limited diameter range. It is essential to use the correct size heater on the appropriate pipe. Failure to do this may result in poor quality bonding or damage to the heater blankets. The heater blankets are designed to be fitted with the termination area that connects the power cord being placed at the top of the pipe. The blanket is wrapped around the pipe anticlockwise until the end with the words "THIS END OUT" overlaps the termination area.

As the blanket is fitted it must be tight against the wall of the pipe to avoid air gaps. The blanket can then be held in place using straps tied around the blanket keeping it tight against the pipe surface.



On vertical installations the above instructions should still be adhered to but with the cable exiting vertically downward.

Always exercise caution when removing the blanket only after it de-energizes completely

### TYPE B:

Choose the required number and type of blankets from the selection chart for Type B blankets. Each combination of heating blankets conforms to a specific pipe size and must be selected accordingly. Popper together the required number of heating blankets end to end using the stud connection forming multiple joined heater blankets. Leave the stud connection at each end of the combined blanket free.

Place the heating blankets against the joint with the thermostat housing facing out. The blankets are now wrapped around the pipe at the joint and by bringing up the press studs at each end, the heaters may overlap over the heater spacer bars which prevents overheating. The blankets should always be held tightly against the pipes surface to avoid air gaps and "cold regions". The blankets are to be held firmly in place using straps tied around the heater circumference ensuring a tight fit.

The assembled heating blanket can be repositioned around the joint by rotating the assembly 90 degrees to better the heating at the popped joints.

Always exercise caution when removing the blanket only after it de-energizes completely.

