



	Attachment 3/6
Quote Ref: -	Date: -
Customer: -	

Design Questionnaire For Electrically Trace Heated Hose

Please complete the following questionnaire as accurately and as fully as possible.

<p><u>HOSE SPECIFICATION</u></p> <p>Hose Type: - _____</p> <p>Nominal Bore: - _____</p> <p>End Fitting One: - _____</p> <p>End Fitting Two: - _____</p>
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<p><u>WORKING CONDITIONS</u></p> <p>Maximum Working Pressure: - _____ Bar Vacuum Requirements: - _____ Bar</p> <p>Please state minimum bend radius required _____</p> <p>NOTE: Minimum bend radiuses of ETH hoses are <u>three times</u> and not twice that of the standard GP+SS hoses featured in our product literature.</p> <p>Fluid To Be Transferred: - _____</p> <p><i>(Please supply Data Sheet if possible)</i></p> <p>Ambient Temperature: - _____ °C Min. _____ °C Max.</p> <p>Location: - <input type="checkbox"/> Indoors <input type="checkbox"/> Outdoors</p> <p>Will the hose be subject to external Corrosion from Chemicals or Water etc? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If Yes please describe: - _____</p> <p>_____</p> <p>Will the hose be subject to Abrasion or Mechanical abuse? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Are there any maintenance requirements? (Eg. Steam Cleaning) <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>If Yes please describe: - _____</p> <p>_____</p> <p>Brief description of the exact duty of the hose: - (Eg. Tanker Off Loading)</p> <p>_____</p> <p>_____</p> <p align="center">Page 1 of 3</p>
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The World's Leading Manufacturer of PTFE Flexible Hose.
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HEATING REQUIREMENTS

Temperature to be maintained: - °C Min. °C Max.
 Supply Voltage: - 220-240 110-120 Specify if other: - _____
 Self Regulating Constant Wattage Series Resistance
 Which end of the hose is to have the Electrical Connection? _____
 What is the required length of the external heater leads? _____(M)
 Is a melt out facility required? YES NO
 If Yes please provide the following information: -
 Melt Out Time _____(hrs) Flow Rate _____(M/Min)
 Specific Weight of Media _____(KG/M³)
 Specific Heat of Media _____(KJ/KG/K)

AREA REQUIREMENTS

Has the area in which the hose is to be used been given a Hazardous Classification by the following bodies: - YES NO
 If No please proceed to the "Control Requirement" Section.
 If Yes please tick the relevant box below: -

				
PTB <input type="checkbox"/>	Cenelec Community Mark <input type="checkbox"/>	Underwriters Laboratory <input type="checkbox"/>	BASEEFA <input type="checkbox"/>	Canadian Standard Association <input type="checkbox"/>

Please state which zone, temperature classification and gas group is pertinent: -

Zone 0 In which an explosive Gas/Air mixture is continuously present for long period.
 Zone 1 In which an explosive Gas/Air mixture is likely to occur in normal operation.
 Zone 2 In which an explosive Gas/Air mixture is not likely to occur in normal operation.

Please state the temperature classification:

T1 – 450°C T2 – 300°C T3 – 200°C T4 – 135°C T5 – 100°C T6 – 85°C

AREA REQUIREMENTS – (CONTINUED)

Please state the gas grouping: - (further gases may be identified in Table 7 BS 5345:Part 1)

Gas Group	Representative	T-Class	Ignition
<input type="checkbox"/> I	Methane	T1	595°C
<input type="checkbox"/> IIA	Propane	T1	470°C
<input type="checkbox"/> IIB	Ethylene	T2	425°C
<input type="checkbox"/> IIC	Hydrogen	T1	560°C

CONTROL REQUIREMENTS

NOTES: -

When using a series or constant wattage heater, a temperature sensor is always required, in conjunction with a temperature controller. It may also be necessary to use sensors and controllers with self-regulating heaters when very tight temperature limits are required. *(Aflex will advise of this if applicable).*

If Hazardous Area conditions it is possible to supply Special Hazardous Area Controllers for use with certain types of heaters. However, it is preferable that Standard Controllers be placed outside the Hazardous Area, in a Non-Hazardous location if possible. The Hazardous Area Controllers are supplied with PT100 (RTD) temperature sensors connected to the hose via flexible conduit lengths of up to 1.5 metres are available for this type of controller.

Please indicate which type of sensor is required (if any): -

PT100 K Type J Type Specify _____ Other

Is a Temperature Controller required? YES NO

Please give any further relevant information: _____

QUESTIONNAIRE COMPLETED BY: - _____ DATE: - _____

POSITION: - _____