

FOR THE PLANNING OF ELECTRICAL HEAT TRACING FOR PIPES / TANKS

Company:	<input type="text"/>	Project:	<input type="text"/>
Inquiry no.:	<input type="text"/>	Plant:	<input type="text"/>
Cont. pers.:	<input type="text"/>	Phone:	<input type="text"/>
eMail:	<input type="text"/>	Fax:	<input type="text"/>

1.00 Electrical Heat Tracing for maintaining the medium temperature, covering the heat loss of pipes / tanks

1.01 Pipe lengths and nominal widths of the pipelines or tanks to be heated *)	[-]	<input type="text"/>
1.02 Material of pipelines or tanks	[-]	<input type="text"/>
1.03 Number and dimensions of the valves and fittings installed in the piping system or tank	[pce/DN]	<input type="text"/>
1.04 Number of flanges in the piping system	[pce]	<input type="text"/>
1.05 Number and sort of supports	[pce]	<input type="text"/>
1.06 Necessary medium temperature (temp. to be maintained)	[°C]	<input type="text"/>
1.07 Maximum permitted medium temperature	[°C]	<input type="text"/>
1.08 Maximum possible medium temperature	[°C]	<input type="text"/>
1.09 Deepest ambient temperature	[°C]	<input type="text"/>
1.10 Planned insulation material	[-]	<input type="text"/>
1.11 Existing insulation strength	[mm]	<input type="text"/>
1.12 Supply voltage/frequency available	[V/Hz]	<input type="text"/>
1.13 Temperature class (for use in hazardous area)	[-]	<input type="text"/>
1.14 Requirements conc. control, capillary thermostate or resistance thermometer Pt100 (Ex(i) or Ex(d))	[-.]	<input type="text"/>
1.15 Control accuracy, controller reaction (2 point or continuous)	[-]	<input type="text"/>
1.16 Ambient conditions (dry, humid, aggressive, windy, etc.)	[-]	<input type="text"/>

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2.00 Electrical Heat Tracing for maintaining the medium temperature including heating up of pipe or tank within scheduled time

2.01 Heating-up of pipe/tank - pipe/tank + medium	[°C]	from <input type="text"/> °C to <input type="text"/> °C
2.02 Heating-up period requested in hours	[h]	<input type="text"/>
2.03 Mass of pipe/tank	[kg/m]	<input type="text"/>
2.04 Specific heating capacity of pipe/tank material	[kJ/kg K]	<input type="text"/>
2.05 Mass of flanges and fittings	[kg]	<input type="text"/>
2.06 Medium	[-]	<input type="text"/>
2.07 Melting temperature of the medium	[°C]	<input type="text"/>
2.08 Latent heat of the medium	[kJ/kg]	<input type="text"/>
2.09 Density of the medium	[kg/m ³]	<input type="text"/>
2.10 Specific heating capacity of the medium	[kJ/kg K]	<input type="text"/>
2.11 Dynamic viscosity of the medium	[Pas]	<input type="text"/>

Remarks:

***) If available please add the following documents:**

- Outline of piping plan incl. branches
- Information concerning installation of pipe (e.g. tube bridges, building, buried installation etc.)
- Drawings/sketches of the tank and information about tank connections/links
- Isometries, R&I's, list of tube lines, tank list, plans of pumps, valves, fittings etc.
- Information conc. the location of electrical distributors (possibilities regarding electrical supply of the heating circuits)

Will you please send outlines and questions mentioning the inquiry no., hereto.