

Project Planning Information for Pipes Electric Trace Heating Systems

| | |
|----------------|----------------|
| Company | Web site |
| Street | Contact person |
| Post code/Town | E-mail |
| Country | Phone |

Application of Electrical Trace Heating System

| | |
|--|--------------------------|
| Frost protection | <input type="checkbox"/> |
| Temperature maintenance | <input type="checkbox"/> |
| Heating up and temperature maintenance | <input type="checkbox"/> |

Piping information

| | |
|-------------------------------------|--|
| Length | m |
| Nominal bore | mm |
| Pipe material | |
| Specific heat of the pipe material* | J/(kg·K) |
| Pipe weight per meter* | kg/m |
| Wall thickness* | mm |
| Density of the pipe material* | kg/m ³ |
| Number of valves | pcs. |
| Number of flanges | pcs. |
| Number of supports | pcs. |
| Number of pumps/filters | pcs. |
| Number of drains/vents | pcs. |
| Location | indoor <input type="checkbox"/> outdoor <input type="checkbox"/> buried <input type="checkbox"/> |

Thermal insulation information

| | |
|--|--------------------------------|
| Material | |
| Thickness | mm |
| Thermal conductivity | W/(m·K) at mean temperature °C |
| Density* | kg/m ³ |
| Specific heat* | J/(kg·K) |
| Upper limit temperature of thermal insulation material | °C |

*required for temperature raise

Product information

| | |
|--|-------------------|
| Medium | |
| Density* | kg/m ³ |
| Specific heat* | J/(kg·K) |
| Phase change temperature* (if undergo) | °C |
| Latent heat of fusion* | J/kg |

Process data

| | |
|---|----|
| Initial temperature* | °C |
| Final temperature* | °C |
| Required heat up period* | h |
| Maintain temperature | °C |
| Max. allowed temperature of the product | °C |
| Min. ambient temperature | °C |
| Max. ambient temperature | °C |
| Startup temperature | °C |

Temperature limitations

| | |
|--|----|
| Max. operating pipe temperature (continuously, trace heater energized) | °C |
| Max. exposure heater temperature (intermittently, trace heater de-energized) | °C |

Electrical data, area classification, approvals/certifications

| | | | |
|---|--------------------------------|--|--------------------------------|
| Supply voltage | V AC | Frequency 50 Hz <input type="checkbox"/> | 60 Hz <input type="checkbox"/> |
| Installation in potentially explosive atmospheres | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature class | | | |
| ATEX <input type="checkbox"/> | IECEX <input type="checkbox"/> | CSA <input type="checkbox"/> | EAC <input type="checkbox"/> |
| INMETRO <input type="checkbox"/> | KOSHA <input type="checkbox"/> | | |