

Other

## NVENT - DATA REQUIREMENTS FOR SKIN-EFFECT HEAT-TRACING SYSTEM

Email to: PTM-techsupport@nVent.com

**Contact Information** 

Name Today's date

Company name Email address

Phone number

**Project Parameters** 

Project name Maximum wind velocity

Project location Climate (tropical/arctic/etc.)

Minimum ambient temperature Altitude

Maximum ambient temperature Code and Standard (IEC/NEMA/NEC)

Is pipeline: Aboveground Underground Submerged

Is pipeline: Existing New
Units of measure: Celsius Fahrenheit

**Design Parameters** 

Maintain temperature Normal/process/flow operating

temperature Minimum flow rate

Minimum cold start temperature Minimum flow rate

Maximum exposure temperature Maximum flow rate

(power-off)

Minimum allowable product Flow inlet temperatures

temperature

Maximum allowable product

temperature

**Pipe Specifications and Thermal Insulation** 

Units of measure: Inches Millimeters

Pipe size Support type/size

Pipe wall thickness Number of supports/support spacing

Pipe material Insulation type
Length of pipeline Insulation k-factor

Meters Feet

Number of valves Insulation thickness

Number of flanges

Will pipeline be: Preinsulated Field insulated Unsure

## DATA REQUIREMENTS FOR SKIN-EFFECT HEAT-TRACING SYSTEM

## **Power Supply Data**

Maximum available fault current at Power supply voltage

source terminals (kA)

Power availability (one end, both ends, Power frequency

and the middle)

Maximum allowable single-phase

load (KVA)

Distance from source to panel

location

**Control and Switchgear Panel** 

Area classification Enclosure protection class

(nonhazardous/hazardous) (NEMA or IP rating)

Class Location (indoor/outdoor) Division

Maximum sun load (w/m²) Zone Minimum ambient temperature

Group Maximum ambient temperature

T-rating

AIT

**Transformer Data** 

Area classification Enclosure protection class

(nonhazardous/hazardous) (NEMA or IP rating)

Class Location (indoor/outdoor) Division Maximum sun load (w/m²) Zone Minimum ambient temperature

Maximum ambient temperature Group T-rating

Heat-up, Melt-out, or Cool-down Data

Fluid name Start temperature Final temperature

Specific heat Heat-up time required Cool-down time limit Density solid Density liquid Density vapor Heat of fusion Heat of vaporization **Boiling** point

Melting point

Flowing fluid If yes, define parameters for dynamic

> analysis (flow rate and units) Yes No

Other

Do you require fiber optic distributed temperature sensing: Yes No Do you require FEA modeling?

Yes

No

Additional information



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