

SKIN-EFFECT TRACE-HEATING SYSTEM (STS) INQUIRY FORM

Email to: Thermal.Info@nVent.com

CONTACT INFORMATION

Name

Email

Company

Date

Phone

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

Other

Is pipeline?

Existing

New

Units of measure

Celsius

Fahrenheit

DESIGN PARAMETERS

Maintain
temperature

Maximum
allowable product
temperature

Minimum cold start
temperature

Normal/process/flow
operating temperature

Maximum exposure
temperature
(Power off)

Minimum
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 thickness
	Meters	Feet	Insulation k-factor
			Number of Valves/flanges
Will pipeline be?	Preinsulated	Field insulated	Unsure

POWER SUPPLY DATA

Power supply voltage	Distance from source to panel location
Power frequency	Maximum available fault current at source terminals (kA)
Maximum allowable single-phase load (KVA)	Power availability (one end, both ends, and the middle)

CONTROL AND SWITCHGEAR PANEL

Area classification (nonhazardous /hazardous)	Enclosure protection class (NEMA or IP rating)
Class Rating	Location (indoor/outdoor)
	Maximum sun load (w/m2)
	Minimum ambient temperature
	Maximum ambient temperature

TRANSFORMER DATA

Area classification (nonhazardous /hazardous)	Enclosure protection class (NEMA or IP rating)
Class rating	Location (indoor/outdoor)
	Maximum sun load (w/m2)
	Minimum ambient temperature
	Maximum ambient temperature

HEAT-UP, MELT-OUT, OR COOL-DOWN DATA

Fluid name	Melting point	Heat of vaporization
Specific heat	Start temperature	Final temperature
Density solid	Heat-up time required	Cool-down time limit
Heat of fusion	Density liquid	Density vapor
		Boiling point

Flowing fluid?	Yes	No	Minimum flow rate
			Maximum flow rate
			Flow inlet temperatures
			If yes, define parameters for dynamic analysis

OTHER

Do you require fiber optic distributed temperature sensing?	Yes	No
Do you require FEA modeling?	Yes	No
Are you interested in Advanced Analytics for pipeline performance monitoring?	Yes	No

Additional information

North America

Tel +1.800.545.6258
Fax +1.800.527.5703
info@nVent.com

Europe, Middle East, Africa

Tel +32.16.213.511
Fax +32.16.213.603
info@nVent.com

Asia Pacific

Tel +86.21.2412.1688
Fax +86.21.5426.3167
cn.info@nVent.com

Latin America

Tel +1.713.868.4800
Fax +1.713.868.2333
info@nVent.com



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