Project Planning
Electrical Pipe Trace Heating

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Thimm Thermotechnik Germany

TÜV CERT SQC 04106020031875 DIN EN ISO 9001 : 2000 0410020031875

1. General Information

1.0	Quotation for company					
1.1	Street / P.O. Box					
1.2	Country/Post Code/City					
1.3	Phone					
1.4	Fax					
1.5	Editor		Dep.		Extension	
1.6	Quotation date					
1.7	Owner of plant					
1.8	Address					
1.9	Editor		Dep.		Extension	

2. Pipe Information

2.0	Pipe length	m	
2.1	Pipe nominal diameter	mm	
2.2	Pipe material		
2.3	Pipe wall thickness	mm	
2.4	Pipe inner coating		
2.5	Number of valves and fittings	piece	
2.6	Designation of valves and fittings		
2.7	Number of flanges	piece	
2.8	Number of pumps and filter – please attach probable drawings	piece	
2.9	Number of pipe suspension devices or supports	piece	
2.10	Laying (i. e. pipe bridge, within a building, within earth		
	please attach probable drawings (pipe line plan, isometries)		
2.11	Insulation material		
2.12	Insulation thickness	mm	
2.13	Coefficient of thermal conductivity of insulation	W/mK	
	Please indicate in case of temperature rise:		
2.14	Spec. heat of pipe material	kJ/kgK	
2.15	Weight for each meter of pipe	kg	

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3. Product Information

3.0	Product		
3.1	Medium		
3.2	Spec. weight	kg/m³	
3.3	Spec. heat	kJ/kgK	
3.4	Heat of fusion	J/kg	
3.5	Desired constant temperature of product	°C	
3.6	Max. ambient temperature	°C	
3.7	Min. ambient temperature	°C	
3.8	Wind speed	m/s	
3.9	**Temperature rise of product**		
	A. Starting temperature	°C	
	B. Final temperature	°C	
	C. Desired period of heating rise	h	
3.10	**Temperature of liquid products**		
	A. Starting temperature	°C	
	B. Final temperature	°C	
	C. Length of pipe line, which can be heated	m	
	D. Flow rate of product	kg/s	

4. Electrical Data

4.0	Existing voltage	V		Hz	
4.1	Installation in hazardous area	yes	☐	no	☐
	if yes, temperature class			T	
4.2	**Certificates and Approvals**				
	VDE				
	PTB				
	TÜV				
	Others				

5. Temperature Limiting Values

5.0	Max. temperature of insulation	°C	
5.1	Max. temperature of pipe	°C	
5.2	Max. temperature of coating	°C	
5.3	Max. temperature of product	°C	
5.4	Will the pipe be flushed?		
	If yes, at which temperature	°C	

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