Rating by Temperature Report

Work Date & Time: 2025-10-24 10:42:45

Tags and units

_Tag	Meaning	Unit
NPS	Nominal pipe size	inch
OD	Outside diameter	mm
CA	Corrosion allowance	mm
codeTol	Tolerance code	-
TOL	Tolerance value	% or mm
Y	Coefficient (from ASME B31.3 table 304.1.1)	-
E	Quality factor (from ASME B31.3 table A-1A or A-1B)	-
W	Weld joint reduction factor (from ASME B31.3 table 302.3.5)	-
Temp	Temperature	Celsius degree
Press	Pressure	bar
Allow	Material allowable stress	MPa
thkC	Calculated thickness	mm
thkCReq	Required thickness	mm
thkCom	Commercial thickness	mm
MAWP	Max allowable working pressure	bar

General Data

JAccount	Project	Location	Spec	Service
JA1000	Titolo1	Vibo Valentia	spec 11A	Azoto

Components Data

Comp_Group	Comp_Material	id	Rating
Cmp_G_1	1.1B :ASME B16.34 SPC. only BW (A105-A350LF2-A216WCB)	2	150
Cmp_G_2	1.4B :ASME B16.34 SPC. only BW (A350LF1)	8	300

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Output

TempF	TempC	Cmp_G_1	Cmp_G_2	Pipe_G_1	Pipe_G_2	Pipe_G_3	Rating	Gr
100	37.78	19.99	44.47	7.02	10.23	12.73	7.02	Pipe_G_1
122	50.0	19.99	44.47	7.02	10.23	12.73	7.02	Pipe_G_1
200	93.33	19.99	44.47	7.02	10.23	12.73	7.02	Pipe_G_1
212	100.0	19.99	44.47	7.02	10.23	12.68	7.02	Pipe_G_1
300	148.89	19.99	44.47	7.02	10.23	12.31	7.02	Pipe_G_1
311	155.0	19.99	44.47	7.02	10.23	12.28	7.02	Pipe_G_1
392	200.0	19.99	44.47	7.02	10.23	11.99	7.02	Pipe_G_1
400	204.44	19.99	44.47	7.02	10.23	11.97	7.02	Pipe_G_1
482	250.0	19.99	44.47	7.02	9.77	11.4	7.02	Pipe_G_1
500	260.0	19.99	44.47	7.02	9.67	11.27	7.02	Pipe_G_1
572	300.0	19.25	41.99	6.64	9.08	10.57	6.64	Pipe_G_1
600	315.56	18.96	41.02	6.5	8.85	10.3	6.5	Pipe_G_1
650	343.33	18.62	40.33	6.37	8.7	10.09	6.37	Pipe_G_1
662	350.0	18.53	40.25	6.35	8.64	10.07	6.35	Pipe_G_1
700	371.11	18.27	39.99	6.32	8.44	10.02	6.32	Pipe_G_1
750	398.89	16.55	38.27	4.7	6.65	8.35	4.7	Pipe_G_1
752	400.0	16.44	38.02	4.67	6.61	8.3	4.67	Pipe_G_1
800	426.67	13.79	32.06	4.08	5.53	7.1	4.08	Pipe_G_1
842	450.0	9.74	24.53	3.57	4.62	5.99	3.57	Pipe_G_1
850	454.44	8.96	23.1	3.47	4.45	5.77	3.47	Pipe_G_1
900	482.22	5.86	14.82	2.85	3.33	4.52	2.85	Pipe_G_1
932	500.0	4.32	11.07	2.29	2.67	3.63	2.29	Pipe_G_1
950	510.0	3.45	8.96	1.98	2.3	3.13	1.98	Pipe_G_1
1000	537.78	1.72	4.48	1.1	1.28	1.74	1.1	Pipe_G_1