

Maximum Allowable Design Stresses for ASME Boiler and Pressure Vessel Code (Section II, Part D, table 1A)

Temperature °F	321 [S32100]	309H [S30909]	310H [S31009]	RA 253 MA [®] [S30815]	RA330 [®] [N08330]	600 [N06600]	601 [N06601]	800 H/AT [N08811]	RA 602 CA [®] [N06025]
Min. Tensile Strength, ksi	75	75	75	87	70	80	80	65	98
Min. Yield Strength, ksi	30	30	30	45	30	35	30	25	39
-20 to 100	20.0	20.0	20.0	24.9	20	22.9	20.0	16.7	26.0
200	20.0	20.0	20.0	24.7	20	22.9	17.8	16.7	25.5
300	19.1	20.0	20.0	23.3	20	22.9	16.6	16.7	24.7
400	18.7	20.0	19.9	22.4	19.6	22.9	15.5	16.7	23.7
500	18.7	19.4	19.3	21.8	19.4	22.9	14.7	16.7	22.7
600	18.3	18.8	18.5	21.4	18.9	22.9	14.2	16.5	21.7
650	17.9	18.5	18.2	21.2	18.5	22.9	14.0	16.1	21.2
700	17.5	18.2	17.9	21.0	18.1	22.9	13.9	15.7	20.8
750	17.2	18.0	17.7	20.8	17.7	22.9	13.8	15.3	20.5
800	16.9	17.7	17.4	20.6	17.4	22.9	13.8	15.0	20.2
850	16.7	17.5	17.2	20.3	17	22.4	13.8	14.7	20.0
900	16.5	17.2	16.9	20.0	16.7	16.0	13.8	14.5	19.8
950	16.4	16.9	16.7	19.1	16.1	10.6	13.7	14.2	19.6
1000	14.9	13.8	13.8	14.9	12.7	7.0	13.7	14.0	16.3
1050	9.6	10.3	10.3	11.6	10	4.5	13.6	13.8	12.3
1100	6.9	7.6	7.6	9.0	7.8	3.0	10.4	12.9	9.2
1150	5.0	5.5	5.5	6.9	6	2.2	8.0	10.4	6.9
1200	3.6	4.0	4.0	5.2	4.7	2.0	6.1	8.3	4.1
1250	2.6	3.0	3.0	4.0	3.8	-	4.6	6.7	2.8
1300	1.7	2.2	2.2	3.1	3.1	-	3.6	5.4	2.0
1350	1.1	1.7	1.7	2.4	2.4	-	2.8	4.3	1.5
1400	0.8	1.3	1.3	1.9	1.8	-	2.1	3.4	1.2
1450	0.5	1.0	0.97	1.6	1.5	-	1.7	2.7	0.97
1500	0.3	0.75	0.75	1.3	1.1	-	1.3	2.2	0.80
1550	-	-	-	1.0	0.9	-	1.1	1.6	0.68
1600	-	-	-	0.86	0.68	-	0.87	1.2	0.58
1650	-	-	-	0.71	0.48	-	0.71	0.91	0.51
NOTES:	G5, G12, T6	G5, H1, T6	G5, T6	G5, G6, T5	G4, G5, H1, T12	G5,T11	G4, T14	G4, G5, T15	Case 2359-2

* Grade 11 Condition 1, ** Grade 22 Condition 1