Table 2A (Cont'd)
Section III, Division 1, Classes 1, MC, and CS; Section III, Division 3; and Section III, Division 5
Design Stress Intensity Values, S_m , and Section VIII, Division 2, Class 1 Maximum Allowable
Stress Values, S_m , for Ferrous Materials

Line	Design Stress Intensity or Maximum Allowable Stress, MPa (Multiply by 1000 to Obtain kPa), for Metal Temperature, °C, Not Exceeding															
No.	40	65	100	125	150	200	250	300	325	350	375	400	425	450	475	500
1	230	228	223	216	209	201	190	181	177	174	172	169	166	163		
2	230	228	223	216	209	201	197	193	191	187	184	180	175	170		
3	212	208	203	199	196	195	195	195	195							
4	180	177	173	169	167	165	165	165	165							
5	212	208	203	199	196	195	195	195	195							
6	180	177	173	169	167	165	165	165	165							
7	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
8	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
9	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
10	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
11	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
12	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
13	115	115	115	115	115	110	103	97.7	95.8 95.8	94.1	92.9	91.6	89.7	88.4		
	97.9	97.9	97.9	97.9	97.9	93.0	87.2	82.9		80.2	78.4	77.9		75.4		
14 15	115	115	115	115	115	93.0 110	103	82.9 97.7	81.6 95.8	94.1	78. 4 92.9	77.9 91.6	76.6 89.7	75.4 88.4		
16	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
17	97.9	97.9	97.9	97.9	97.9	93.0	87.2	82.9	81.6	80.2	78.4	77.9	76.6	75.4		
18	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
19	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
20	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
21	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
22	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
23	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
24	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
25	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
26	97.9	97.9	97.9	97.9	97.9	93.0	87.2	82.9	81.6	80.2	78.4	77.9	76.6	75.4		
27	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
28	115	115	115	115	115	110	103	97.7	95.8	94.1	92.9	91.6	89.7	88.4		
29	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
30	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
31	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
32	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
33	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
34	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
35	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
36	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
37	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
38	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
39	133	133	133	133	133	127	119	113	111	109	107	106	104	104	102	99.9
40	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
11	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
42	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
42 43	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
43 44	138	138	138	138	138	129	122	116	114	111	109	107	105	103		
45	138	138	138	138	138	129	122	116	114	111	109	107	105	103		