



Pressure-Temperature Ratings On Carbon Steel Butt Weld Fittings

Based on Code for Pressure Piping B31.1

STANDARD

Nominal Pipe Size	Wall Thickness*	** Working Pressure-- lbs per square inch at the Fahrenheit Temperature Indicated			
		-20° to 650°	700°	750°	*** 800°
1/2	.109	1695	1621	1463	1220
3/4	.113	1455	1392	1256	1046
1	.133	1575	1506	1359	1134
1 1/4	.140	1065	1019	919	766
1 1/2	.145	1005	960	867	723
2	.154	900	861	777	648
2 1/2	.203	1215	1162	1048	874
3	.216	1095	1047	945	788
3 1/2	.226	1020	975	880	734
4	.237	975	932	841	702
5	.258	885	846	764	637
6	.280	840	803	725	604
8	.322	765	731	660	550
10	.365	720	688	621	518
12	.375	630	602	543	453
14	.375	570	545	492	410
16	.375	495	473	427	356
18	.375	450	430	388	354
20	.375	405	387	349	291
24	.375	330	315	284	237
30	.375	265	254	229	190
36	.375	220	198	178	148
42	.375	189	181	163	136
48	.375	165	158	143	118

* Nominal wall thickness; they correspond respectively to the thickness of **STANDARD** WALL GRADE B steel pipe.

** Ratings apply in accordance with Sections 1 and 5 of the Code for Pressure Pipe. The values shown are based upon a corrosion allowance of 0.05 inches for sizes 1" and smaller. For sizes 1 1/4" and larger, a corrosion allowance of 0.065 inches is used.

*** Upon prolonged exposure to temperatures about 775° the carbide phase of carbon steel may be converted to graphite. For other applications refer to appropriate section of B31 Code for Pressure Piping.



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EXTRA STRONG

Nominal Pipe Size	Wall Thickness*	** Working Pressure-- lbs per square inch at the Fahrenheit Temperature Indicated			
		-20° to 650°	700°	750°	*** 800°
1/2	.147	3030	2898	2615	2181
3/4	.154	2595	2482	2240	1868
1	.179	2610	2496	2253	1879
1 1/4	.191	1935	1851	1670	1391
1 1/2	.200	1815	1736	1566	1306
2	.218	1665	1592	1437	1198
2 1/2	.276	1935	1851	1670	1393
3	.300	1770	1693	1528	1274
3 1/2	.318	1665	1592	1437	1198
4	.337	1590	1521	1372	1144
5	.375	1470	1406	1269	1058
6	.432	1470	1406	1269	1058
8	.500	1350	1291	1165	972
10	.500	1065	1018	919	766
12	.500	900	861	777	648
14	.500	810	774	699	583
16	.500	705	674	608	507
18	.500	630	602	543	453
20	.500	570	545	492	410
24	.500	465	444	401	334
30	.500	377	362	326	270
36	.500	314	301	272	225
42	.500	269	258	232	193
48	.500	235	226	203	169

* Nominal wall thickness; they correspond respectively to the thickness of **EXTRA STRONG** WALL GRADE B steel pipe.

** Ratings apply in accordance with Sections 1 and 5 of the Code for Pressure Pipe. The values shown are based upon a corrosion allowance of 0.05 inches for sizes 1" and smaller. For sizes 1 1/4" and larger, a corrosion allowance of 0.065 inches is used.

*** Upon prolonged exposure to temperatures about 775° the carbide phase of carbon steel may be converted to graphite. For other applications refer to appropriate section of B31 Code for Pressure Piping.