

Pressure-Temperature Ratings on Carbon Steel Butt Weld Fittings



BASED ON CODE FOR PRESSURE PIPING B31.1

EXTRA STRONG

SIZE OF FITTING INCHES	★ WALL THICKNESS INCHES	★★ WORKING PRESSURE-LBS. PER SQ. IN. AT THE FAHRENHEIT TEMPERATURES INDICATED			
		-20° TO 650°	700°	750°	★★★ 800°
1/2	0.147	3030	2898	2615	2181
3/4	0.154	2595	2482	2240	1868
1	0.179	2610	2496	2253	1879
1-1/4	0.191	1935	1851	1670	1393
1-1/2	0.200	1815	1736	1566	1306
2	0.218	1665	1592	1437	1198
2-1/2	0.276	1935	1851	1670	1393
3	0.300	1770	1693	1528	1274
3-1/2	0.318	1665	1592	1437	1198
4	0.337	1590	1521	1372	1144
5	0.375	1470	1406	1269	1058
6	0.432	1470	1406	1269	1058
8	0.500	1350	1291	1165	972
10	0.500	1065	1018	919	766
12	0.500	900	861	777	648
14	0.500	810	774	699	583
16	0.500	705	674	608	507
18	0.500	630	602	543	453
20	0.500	570	545	492	410
24	0.500	465	444	401	334

★ 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 for sizes 1 and smaller. For sizes 1 1/4 and larger, corrosion allowance of 0.065 is used.

★★★ Upon prolonged exposure to temperatures above 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.