

Sizes, Classes, and Ratings

Figure 10-1. Pressure-temperature ratings of carbon steel

TABLE 2-1.1
RATINGS FOR GROUP 1.1 MATERIALS

A 105(a)	A 515 70(a)	A 675 70	A 672 B70(a)
A 216 WCB(a)	A 516 70(a)	A 696 Gr. O	A 672 C70(a)
A 350 LF2(d)	A 537 Cl.1(d)		

NOTES:

(a) Permissible, but not recommended for prolonged usage above about 800°F.

(d) Not to be used over 650°F.

TABLE 2-1.1A STANDARD CLASS

Temperature, °F	Working Pressure by Classes, psig							
	150	300	400	600	900	1500	2500	4500
-20 to 100	285	740	990	1,480	2,220	3,705	6,170	11,110
200	260	675	900	1,350	2,025	3,375	5,625	10,120
300	230	655	875	1,315	1,970	3,280	5,470	9,845
400	200	635	845	1,270	1,900	3,170	5,280	9,505
500	170	600	800	1,200	1,795	2,995	4,990	8,980
600	140	550	730	1,095	1,640	2,735	4,560	8,210
650	125	535	715	1,075	1,610	2,685	4,475	8,055
700	110	535	710	1,065	1,600	2,665	4,440	7,990
750	95	505	670	1,010	1,510	2,520	4,200	7,560
800	80	410	550	825	1,235	2,060	3,430	6,170
850	65	270	355	535	805	1,340	2,230	4,010
900	50	170	230	345	515	860	1,430	2,570
950	35	105	140	205	310	515	860	1,545
1000	20	50	70	105	155	260	430	770