

Figure 10-1. Pressure–temperature ratings of carbon

TABLE 2-1.1
RATINGS FOR GROUP 1.1 MATERIALS

| | | | |
|--------------|---------------|-----------|-------------|
| A 105(a) | A 515 70(a) | A 675 70 | A672 B70(a) |
| A 216 WBC(a) | A 516 70(a) | A696 Gr.0 | A672 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

Working Pressure by Classes, psig

| Temperature F | 150 | 300 | 400 | 600 | 900 | 1500 | 2500 | 4500 |
|------------------|-----|-----|-----|-------|-------|-------|-------|--------|
| -20 to 100 | 285 | 740 | 990 | 1,480 | 2,200 | 3,705 | 6,170 | 11,110 |
| 200 | 260 | 675 | 900 | 1,350 | 2,025 | 3,375 | 5,625 | 10,120 |
| 300 | 230 | 655 | 975 | 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 |



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