

Appendix

GAUGE PRESSURE VS. TEMPERATURE OF SATURATED STEAM

| Gauge Pressure (psi) | Temp (F) | Temp (C) | Gauge Pressure (psi) | Temp (F) | Temp (C) | Gauge Pressure (psi) | Temp (F) | Temp (C) |
|----------------------|----------|----------|----------------------|----------|----------|----------------------|----------|----------|
| 0 | 212.0 | 100.0 | 45 | 292.4 | 144.7 | 90 | 331.2 | 166.2 |
| 1 | 215.4 | 101.9 | 46 | 293.5 | 145.3 | 91 | 331.8 | 166.6 |
| 2 | 218.5 | 103.6 | 47 | 294.6 | 145.9 | 92 | 332.5 | 166.9 |
| 3 | 221.5 | 105.3 | 48 | 295.6 | 146.4 | 93 | 333.2 | 167.3 |
| 4 | 224.5 | 106.9 | 49 | 296.7 | 147.1 | 94 | 333.9 | 167.7 |
| 5 | 227.4 | 108.6 | 50 | 297.7 | 147.6 | 95 | 334.6 | 168.1 |
| 6 | 230.0 | 110.0 | 51 | 298.7 | 148.2 | 96 | 335.3 | 168.5 |
| 7 | 232.4 | 111.3 | 52 | 299.7 | 148.7 | 97 | 335.9 | 168.8 |
| 8 | 234.8 | 112.7 | 53 | 300.6 | 149.2 | 98 | 336.6 | 169.2 |
| 9 | 237.1 | 113.9 | 54 | 301.6 | 149.8 | 99 | 337.2 | 169.6 |
| 10 | 239.4 | 115.2 | 55 | 302.6 | 150.3 | 100 | 337.9 | 169.9 |
| 11 | 241.6 | 116.4 | 56 | 303.6 | 150.9 | 101 | 338.5 | 170.3 |
| 12 | 243.7 | 117.6 | 57 | 304.5 | 151.4 | 102 | 339.2 | 170.7 |
| 13 | 245.8 | 118.8 | 58 | 305.5 | 151.9 | 103 | 339.8 | 171.0 |
| 14 | 247.9 | 119.9 | 59 | 306.4 | 152.4 | 104 | 340.5 | 171.4 |
| 15 | 249.8 | 121.0 | 60 | 307.4 | 153.0 | 105 | 341.1 | 171.7 |
| 16 | 251.7 | 122.1 | 61 | 308.3 | 153.5 | 106 | 341.7 | 172.1 |
| 17 | 253.6 | 123.1 | 62 | 309.2 | 154.0 | 107 | 342.3 | 172.4 |
| 18 | 255.4 | 124.1 | 63 | 310.1 | 154.5 | 108 | 342.9 | 172.7 |
| 19 | 257.2 | 125.1 | 64 | 311.0 | 155.0 | 109 | 343.5 | 173.1 |
| 20 | 258.8 | 126.0 | 65 | 311.9 | 155.5 | 110 | 344.2 | 173.4 |
| 21 | 260.6 | 127.0 | 66 | 312.8 | 156.0 | 111 | 344.8 | 173.8 |
| 22 | 262.3 | 127.9 | 67 | 313.7 | 156.5 | 112 | 345.4 | 174.1 |
| 23 | 263.8 | 128.8 | 68 | 314.5 | 156.9 | 113 | 346.0 | 174.4 |
| 24 | 265.3 | 129.6 | 69 | 315.3 | 157.4 | 114 | 346.6 | 174.8 |
| 25 | 266.8 | 130.4 | 70 | 316.1 | 157.8 | 115 | 347.2 | 175.1 |
| 26 | 268.3 | 131.3 | 71 | 316.9 | 158.3 | 116 | 347.8 | 175.4 |
| 27 | 269.9 | 132.2 | 72 | 317.7 | 158.7 | 117 | 348.3 | 175.7 |
| 28 | 271.4 | 133.0 | 73 | 318.5 | 159.2 | 118 | 348.9 | 176.1 |
| 29 | 272.7 | 133.7 | 74 | 319.3 | 159.6 | 119 | 349.5 | 176.4 |
| 30 | 274.0 | 134.4 | 75 | 320.1 | 160.1 | 120 | 350.1 | 176.7 |
| 31 | 275.4 | 135.2 | 76 | 320.9 | 160.5 | 121 | 350.6 | 177.0 |
| 32 | 276.7 | 135.9 | 77 | 321.7 | 160.9 | 122 | 351.2 | 177.3 |
| 33 | 278.1 | 136.7 | 78 | 322.5 | 161.4 | 123 | 351.8 | 177.7 |
| 34 | 279.4 | 137.4 | 79 | 323.3 | 161.8 | 124 | 352.3 | 177.9 |
| 35 | 280.7 | 138.2 | 80 | 324.1 | 162.3 | 125 | 352.9 | 178.3 |
| 36 | 281.9 | 138.8 | 81 | 324.9 | 162.7 | 126 | 353.5 | 178.6 |
| 37 | 283.2 | 139.6 | 82 | 325.6 | 163.1 | 127 | 354.0 | 178.9 |
| 38 | 284.4 | 140.2 | 83 | 326.3 | 163.5 | 128 | 354.5 | 179.2 |
| 39 | 285.6 | 140.9 | 84 | 327.0 | 163.9 | 129 | 355.1 | 179.5 |
| 40 | 286.7 | 141.5 | 85 | 327.7 | 164.3 | 130 | 355.6 | 179.8 |
| 41 | 287.9 | 142.2 | 86 | 328.4 | 164.7 | 131 | 356.2 | 180.1 |
| 42 | 289.0 | 142.8 | 87 | 329.1 | 165.1 | | | |
| 43 | 290.2 | 143.4 | 88 | 329.8 | 165.4 | | | |
| 44 | 291.3 | 144.1 | 89 | 330.5 | 165.8 | | | |

Source: Adapted from Keeran, Keyes, Hill and Moore, "Steam Tables," 1969.