

Table 6: Rated Internal Working Pressure (psi) for Types K, L, and M Tube⁽¹⁾

| Nominal or Standard Size, in. | T Y P E | Annealed ⁽²⁾ | | | | | | | Drawn ⁽²⁾ | | | | | | |
|-------------------------------|------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | S = | S = | S = | S = | S = | S = | S = | S = | S = | S = | S = | S = | S = | |
| | | 6000 psi 100°F | 5100 psi 150°F | 4800 psi 200°F | 4800 psi 250°F | 4700 psi 300°F | 4000 psi 350°F | 3000 psi 400°F | 9000 psi 100°F | 9000 psi 150°F | 9000 psi 200°F | 9000 psi 250°F | 8700 psi 300°F | 8500 psi 350°F | 8200 psi 400°F |
| 1/4 | K | 1074 | 913 | 860 | 860 | 842 | 716 | 537 | 1612 | 1612 | 1612 | 1612 | 1558 | 1522 | 1468 |
| | L | 912 | 775 | 729 | 729 | 714 | 608 | 456 | 1367 | 1367 | 1367 | 1367 | 1322 | 1292 | 1246 |
| | M | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/8 | K | 1130 | 960 | 904 | 904 | 885 | 753 | 565 | 1695 | 1695 | 1695 | 1695 | 1638 | 1601 | 1544 |
| | L | 779 | 662 | 623 | 623 | 610 | 519 | 389 | 1168 | 1168 | 1168 | 1168 | 1129 | 1103 | 1064 |
| | M | 570 | 485 | 456 | 456 | 447 | 380 | 285 | 855 | 855 | 855 | 855 | 827 | 808 | 779 |
| 1/2 | K | 891 | 758 | 713 | 713 | 698 | 594 | 446 | 1337 | 1337 | 1337 | 1337 | 1293 | 1263 | 1218 |
| | L | 722 | 613 | 577 | 577 | 565 | 481 | 361 | 1082 | 1082 | 1082 | 1082 | 1046 | 1022 | 986 |
| | M | 494 | 420 | 395 | 395 | 387 | 329 | 247 | 741 | 741 | 741 | 741 | 716 | 700 | 675 |
| 5/8 | K | 736 | 626 | 589 | 589 | 577 | 491 | 368 | 1104 | 1104 | 1104 | 1104 | 1067 | 1043 | 1006 |
| | L | 631 | 537 | 505 | 505 | 495 | 421 | 316 | 947 | 947 | 947 | 947 | 916 | 895 | 863 |
| | M | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3/4 | K | 852 | 724 | 682 | 682 | 668 | 568 | 426 | 1278 | 1278 | 1278 | 1278 | 1236 | 1207 | 1165 |
| | L | 582 | 495 | 466 | 466 | 456 | 388 | 291 | 873 | 873 | 873 | 873 | 844 | 825 | 796 |
| | M | 407 | 346 | 326 | 326 | 319 | 271 | 204 | 611 | 611 | 611 | 611 | 590 | 577 | 556 |
| 1 | K | 655 | 557 | 524 | 524 | 513 | 437 | 327 | 982 | 982 | 982 | 982 | 949 | 928 | 895 |
| | L | 494 | 420 | 395 | 395 | 387 | 330 | 247 | 741 | 741 | 741 | 741 | 717 | 700 | 676 |
| | M | 337 | 286 | 270 | 270 | 264 | 225 | 169 | 506 | 506 | 506 | 506 | 489 | 477 | 461 |
| 1-1/4 | K | 532 | 452 | 425 | 425 | 416 | 354 | 266 | 797 | 797 | 797 | 797 | 771 | 753 | 727 |
| | L | 439 | 373 | 351 | 351 | 344 | 293 | 219 | 658 | 658 | 658 | 658 | 636 | 622 | 600 |
| | M | 338 | 287 | 271 | 271 | 265 | 225 | 169 | 507 | 507 | 507 | 507 | 490 | 479 | 462 |
| 1-1/2 | K | 494 | 420 | 396 | 396 | 387 | 330 | 247 | 742 | 742 | 742 | 742 | 717 | 700 | 676 |
| | L | 408 | 347 | 327 | 327 | 320 | 272 | 204 | 613 | 613 | 613 | 613 | 592 | 579 | 558 |
| | M | 331 | 282 | 265 | 265 | 259 | 221 | 166 | 497 | 497 | 497 | 497 | 480 | 469 | 453 |
| 2 | K | 435 | 370 | 348 | 348 | 341 | 290 | 217 | 652 | 652 | 652 | 652 | 630 | 616 | 594 |
| | L | 364 | 309 | 291 | 291 | 285 | 242 | 182 | 545 | 545 | 545 | 545 | 527 | 515 | 497 |
| | M | 299 | 254 | 239 | 239 | 234 | 199 | 149 | 448 | 448 | 448 | 448 | 433 | 423 | 408 |
| 2-1/2 | K | 398 | 338 | 319 | 319 | 312 | 265 | 199 | 597 | 597 | 597 | 597 | 577 | 564 | 544 |
| | L | 336 | 285 | 269 | 269 | 263 | 224 | 168 | 504 | 504 | 504 | 504 | 487 | 476 | 459 |
| | M | 274 | 233 | 219 | 219 | 215 | 183 | 137 | 411 | 411 | 411 | 411 | 397 | 388 | 375 |
| 3 | K | 385 | 328 | 308 | 308 | 302 | 257 | 193 | 578 | 578 | 578 | 578 | 559 | 546 | 527 |
| | L | 317 | 270 | 254 | 254 | 248 | 211 | 159 | 476 | 476 | 476 | 476 | 460 | 449 | 433 |
| | M | 253 | 215 | 203 | 203 | 199 | 169 | 127 | 380 | 380 | 380 | 380 | 367 | 359 | 346 |
| 3-1/2 | K | 366 | 311 | 293 | 293 | 286 | 244 | 183 | 549 | 549 | 549 | 549 | 530 | 518 | 500 |
| | L | 304 | 258 | 243 | 243 | 238 | 202 | 152 | 455 | 455 | 455 | 455 | 440 | 430 | 415 |
| | M | 252 | 214 | 202 | 202 | 197 | 168 | 126 | 378 | 378 | 378 | 378 | 366 | 357 | 345 |
| 4 | K | 360 | 306 | 288 | 288 | 282 | 240 | 180 | 540 | 540 | 540 | 540 | 522 | 510 | 492 |
| | L | 293 | 249 | 235 | 235 | 230 | 196 | 147 | 440 | 440 | 440 | 440 | 425 | 415 | 401 |
| | M | 251 | 213 | 201 | 201 | 197 | 167 | 126 | 377 | 377 | 377 | 377 | 364 | 356 | 343 |
| 5 | K | 345 | 293 | 276 | 276 | 270 | 230 | 172 | 517 | 517 | 517 | 517 | 500 | 488 | 471 |
| | L | 269 | 229 | 215 | 215 | 211 | 179 | 135 | 404 | 404 | 404 | 404 | 390 | 381 | 368 |
| | M | 233 | 198 | 186 | 186 | 182 | 155 | 116 | 349 | 349 | 349 | 349 | 338 | 330 | 318 |
| 6 | K | 346 | 295 | 277 | 277 | 271 | 231 | 173 | 520 | 520 | 520 | 520 | 502 | 491 | 474 |
| | L | 251 | 213 | 201 | 201 | 196 | 167 | 125 | 376 | 376 | 376 | 376 | 364 | 355 | 343 |
| | M | 218 | 186 | 175 | 175 | 171 | 146 | 109 | 328 | 328 | 328 | 328 | 317 | 310 | 299 |
| 8 | K | 369 | 314 | 295 | 295 | 289 | 246 | 184 | 553 | 553 | 553 | 553 | 535 | 523 | 504 |
| | L | 270 | 230 | 216 | 216 | 212 | 180 | 135 | 406 | 406 | 406 | 406 | 392 | 383 | 370 |
| | M | 229 | 195 | 183 | 183 | 180 | 153 | 115 | 344 | 344 | 344 | 344 | 332 | 325 | 313 |
| 10 | K | 369 | 314 | 295 | 295 | 289 | 246 | 184 | 553 | 553 | 553 | 553 | 535 | 523 | 504 |
| | L | 271 | 231 | 217 | 217 | 212 | 181 | 136 | 407 | 407 | 407 | 407 | 393 | 384 | 371 |
| | M | 230 | 195 | 184 | 184 | 180 | 153 | 115 | 344 | 344 | 344 | 344 | 333 | 325 | 314 |
| 12 | K | 370 | 314 | 296 | 296 | 290 | 247 | 185 | 555 | 555 | 555 | 555 | 536 | 524 | 506 |
| | L | 253 | 215 | 203 | 203 | 199 | 169 | 127 | 380 | 380 | 380 | 380 | 368 | 359 | 346 |
| | M | 230 | 195 | 184 | 184 | 180 | 153 | 115 | 345 | 345 | 345 | 345 | 333 | 326 | 314 |

⁽¹⁾ Based on maximum allowable stress in tension (psi) for the indicated temperatures.
⁽²⁾ Type M tube is not available in the annealed temper. Annealed values are provided for guidance when drawn temper Type M is brazed or welded.
⁽³⁾ When brazing or welding is used to join drawn tube, the corresponding annealed rating must be used.