

## 825 Tube - UNS # N08825 – B829

Maximum working pressure (MWP) ratings as per ASME B31.3-2018

### IMPERIAL SIZES

| Outside Diameter (in) Fraction | Outside Diameter (in) Decimal | Wall Thickness (in) | Maximum Working Pressure (PSI) | Maximum Working Pressure (BAR) |
|--------------------------------|-------------------------------|---------------------|--------------------------------|--------------------------------|
| 1/8                            | 0.1250                        | 0.049               | 21170                          | 1460                           |
| 1/8                            | 0.1250                        | 0.035               | 13699                          | 945                            |
| 1/8                            | 0.1250                        | 0.028               | 10467                          | 722                            |
| 1/8                            | 0.1250                        | 0.020               | 7111                           | 490                            |
| 3/16                           | 0.1875                        | 0.049               | 12588                          | 868                            |
| 3/16                           | 0.1875                        | 0.035               | 8469                           | 584                            |
| 3/16                           | 0.1875                        | 0.028               | 6584                           | 454                            |
| 3/16                           | 0.1875                        | 0.020               | 4555                           | 314                            |
| 1/4                            | 0.2500                        | 0.065               | 12510                          | 863                            |
| 1/4                            | 0.2500                        | 0.049               | 8957                           | 618                            |
| 1/4                            | 0.2500                        | 0.035               | 6129                           | 423                            |
| 1/4                            | 0.2500                        | 0.028               | 4802                           | 331                            |
| 1/4                            | 0.2500                        | 0.020               | 3351                           | 231                            |
| 5/16                           | 0.3125                        | 0.065               | 9596                           | 662                            |
| 5/16                           | 0.3125                        | 0.049               | 6952                           | 479                            |
| 5/16                           | 0.3125                        | 0.035               | 4802                           | 331                            |
| 5/16                           | 0.3125                        | 0.028               | 3779                           | 261                            |
| 5/16                           | 0.3125                        | 0.020               | 2650                           | 183                            |
| 3/8                            | 0.3750                        | 0.109               | 14350                          | 990                            |
| 3/8                            | 0.3750                        | 0.083               | 10320                          | 712                            |
| 3/8                            | 0.3750                        | 0.065               | 7783                           | 537                            |
| 3/8                            | 0.3750                        | 0.049               | 5680                           | 392                            |
| 3/8                            | 0.3750                        | 0.035               | 3947                           | 272                            |
| 3/8                            | 0.3750                        | 0.028               | 3116                           | 215                            |
| 3/8                            | 0.3750                        | 0.020               | 2192                           | 151                            |
| 1/2                            | 0.5000                        | 0.109               | 10138                          | 699                            |
| 1/2                            | 0.5000                        | 0.083               | 7412                           | 511                            |
| 1/2                            | 0.5000                        | 0.065               | 5649                           | 390                            |
| 1/2                            | 0.5000                        | 0.049               | 4159                           | 287                            |
| 1/2                            | 0.5000                        | 0.035               | 2911                           | 201                            |
| 1/2                            | 0.5000                        | 0.028               | 2306                           | 159                            |
| 1/2                            | 0.5000                        | 0.020               | 1629                           | 112                            |
| 5/8                            | 0.6250                        | 0.109               | 7837                           | 541                            |
| 5/8                            | 0.6250                        | 0.083               | 5782                           | 399                            |
| 5/8                            | 0.6250                        | 0.065               | 4433                           | 306                            |
| 5/8                            | 0.6250                        | 0.049               | 3280                           | 226                            |
| 5/8                            | 0.6250                        | 0.035               | 2306                           | 159                            |
| 5/8                            | 0.6250                        | 0.028               | 1830                           | 126                            |
| 5/8                            | 0.6250                        | 0.020               | 1296                           | 89                             |

Condition: Annealed  
Temperature: To 700 degrees F

| Outside Diameter (in) Fraction | Outside Diameter (in) Decimal | Wall Thickness (in) | Maximum Working Pressure (PSI) | Maximum Working Pressure (BAR) |
|--------------------------------|-------------------------------|---------------------|--------------------------------|--------------------------------|
| 3/4                            | 0.7500                        | 0.120               | 7111                           | 490                            |
| 3/4                            | 0.7500                        | 0.109               | 6388                           | 441                            |
| 3/4                            | 0.7500                        | 0.083               | 4740                           | 327                            |
| 3/4                            | 0.7500                        | 0.065               | 3648                           | 252                            |
| 3/4                            | 0.7500                        | 0.049               | 2708                           | 187                            |
| 3/4                            | 0.7500                        | 0.035               | 1909                           | 132                            |
| 3/4                            | 0.7500                        | 0.028               | 1517                           | 105                            |
| 3/4                            | 0.7500                        | 0.020               | 1076                           | 74                             |
| 1                              | 1.0000                        | 0.156               | 6912                           | 477                            |
| 1                              | 1.0000                        | 0.120               | 5176                           | 357                            |
| 1                              | 1.0000                        | 0.109               | 4663                           | 322                            |
| 1                              | 1.0000                        | 0.083               | 3484                           | 240                            |
| 1                              | 1.0000                        | 0.065               | 2694                           | 186                            |
| 1                              | 1.0000                        | 0.049               | 2008                           | 138                            |
| 1                              | 1.0000                        | 0.035               | 1420                           | 98                             |
| 1                              | 1.0000                        | 0.028               | 1131                           | 78                             |
| 1                              | 1.0000                        | 0.020               | 803                            | 55                             |
| 1-1/4                          | 1.2500                        | 0.156               | 5402                           | 373                            |
| 1-1/4                          | 1.2500                        | 0.120               | 4068                           | 281                            |
| 1-1/4                          | 1.2500                        | 0.109               | 3672                           | 253                            |
| 1-1/4                          | 1.2500                        | 0.083               | 2754                           | 190                            |
| 1-1/4                          | 1.2500                        | 0.065               | 2135                           | 147                            |
| 1-1/4                          | 1.2500                        | 0.049               | 1595                           | 110                            |
| 1-1/4                          | 1.2500                        | 0.035               | 1131                           | 78                             |
| 1-1/4                          | 1.2500                        | 0.028               | 901                            | 62                             |
| 1-1/2                          | 1.5000                        | 0.188               | 5427                           | 374                            |
| 1-1/2                          | 1.5000                        | 0.156               | 4433                           | 306                            |
| 1-1/2                          | 1.5000                        | 0.120               | 3351                           | 231                            |
| 1-1/2                          | 1.5000                        | 0.109               | 3028                           | 209                            |
| 1-1/2                          | 1.5000                        | 0.083               | 2277                           | 157                            |
| 1-1/2                          | 1.5000                        | 0.065               | 1769                           | 122                            |
| 1-1/2                          | 1.5000                        | 0.049               | 1323                           | 91                             |
| 1-3/4                          | 1.7500                        | 0.188               | 4591                           | 317                            |
| 1-3/4                          | 1.7500                        | 0.049               | 1131                           | 78                             |
| 2                              | 2.0000                        | 0.188               | 3978                           | 274                            |
| 2                              | 2.0000                        | 0.156               | 3263                           | 225                            |
| 2                              | 2.0000                        | 0.120               | 2478                           | 171                            |
| 2                              | 2.0000                        | 0.109               | 2242                           | 155                            |
| 2                              | 2.0000                        | 0.083               | 1692                           | 117                            |
| 2                              | 2.0000                        | 0.065               | 1316                           | 91                             |
| 2-1/2                          | 2.5000                        | 0.188               | 3139                           | 216                            |
| 2-1/2                          | 2.5000                        | 0.065               | 1048                           | 72                             |
| 3                              | 3.0000                        | 0.188               | 2593                           | 179                            |
| 3                              | 3.0000                        | 0.083               | 1117                           | 77                             |

Condition: Annealed  
 Temperature: To 700 degrees F