



## HYDRAULIC PRESSURE LINE TUBING

Alta Tube & Bar stocks Hydraulic Pressure Line Tubing in both seamless and welded grades that are designed to meet the same minimum bursting pressures. During the manufacturing of this tubing, final processing for both grades are the same: multiple cold-draw reductions; intermediate anneals; and a dead-soft anneal after final sizing of the tube. The result is tubing which is bendable and easy to flare, clean on the inside with plugged or capped ends, to maintain cleanliness during shipment. We ship in cartons if required for a nominal charge. The grades carried correspond to one of the following designations:

Seamless - ASTM A-179 CDS or J524b

Welded - SAE J525b

| O.D. (IN.) | WALL DEC. | I.D. (IN.) | WEIGHT PER FT. | ESTIMATED BURSTING PRESSURE, PSI |
|------------|-----------|------------|----------------|----------------------------------|
| 3/16"      | 0.035"    | 0.117"     | 0.057          | 16755                            |
| 1/4"       | 0.035     | 0.180"     | 0.0804         | 12600                            |
|            | 0.049     | 0.152"     | 0.1052         | 17640                            |
| 5/16"      | 0.035     | 0.243"     | 0.1039         | 10063                            |
|            | 0.049     | 0.215"     | 0.1382         | 14089                            |
|            | 0.065     | 0.183"     | 0.1722         | 18690                            |
| 3/8"       | 0.035     | 0.305"     | 0.1271         | 8400                             |
|            | 0.049     | 0.277"     | 0.1706         | 11760                            |
|            | 0.065     | 0.245"     | 0.2152         | 15600                            |
| 1/2"       | 0.035     | 0.430"     | 0.1738         | 6300                             |
|            | 0.049     | 0.402"     | 0.2360         | 8820                             |
|            | 0.065     | 0.370"     | 0.3020         | 11700                            |
|            | 0.083     | 0.334"     | 0.3696         | 14940                            |
| 5/8"       | 0.035     | 0.555"     | 0.2205         | 5040                             |
|            | 0.049     | 0.527"     | 0.3014         | 7056                             |
|            | 0.065     | 0.495"     | 0.3888         | 9360                             |
|            | 0.083     | 0.459"     | 0.4805         | 11950                            |
|            | 0.095     | 0.435"     | 0.5377         | 12960                            |

| O.D. (IN.) | WALL DEC. | I.D. (IN.) | WEIGHT PER FT. | ESTIMATED BURSTING PRESSURE, PSI |
|------------|-----------|------------|----------------|----------------------------------|
| 3/4"       | 0.035     | 0.568"     | 0.2673         | 4200                             |
|            | 0.049     | 0.652"     | 0.3668         | 5880                             |
|            | 0.065     | 0.620"     | 0.4755         | 7800                             |
|            | 0.083     | 0.584"     | 0.5913         | 9960                             |
|            | 0.095     | 0.560"     | 0.6656         | 11400                            |
|            | 0.109     | 0.532"     | 0.7462         | 13080                            |
| 7/8"       | 0.049     | 0.777"     | 0.4323         | 5140                             |
|            | 0.065     | 0.745"     | 0.5623         | 6680                             |
|            | 0.083     | 0.709"     | 0.7021         | 8530                             |
|            | 0.095     | 0.685"     | 0.7914         | 9770                             |
| 1"         | 0.109     | 0.657"     | 0.8917         | 11210                            |
|            | 0.049     | 0.902"     | 0.4977         | 4410                             |
|            | 0.065     | 0.870"     | 0.6491         | 5850                             |
|            | 0.083     | 0.834"     | 0.8129         | 7470                             |
|            | 0.095     | 0.810"     | 0.9182         | 8550                             |
|            | 0.109     | 0.782"     | 1.037          | 9810                             |
|            | 0.120     | 0.760"     | 1.128          | 10800                            |

chart continued on next page ►

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| O.D. (IN.) | WALL DEC. | I.D. (IN.) | WEIGHT PER FT. | ESTIMATED BURSTING PRESSURE, PSI |
|------------|-----------|------------|----------------|----------------------------------|
| 1-1/8"     | 0.065     | 0.955"     | 0.7359         | 5200                             |
| 1-1/4"     | 0.049     | 1.152"     | 0.6285         | 3520                             |
|            | 0.065     | 1.120"     | 0.8226         | 4680                             |
|            | 0.083     | 1.084"     | 1.034          | 5970                             |
|            | 0.095     | 1.060"     | 1.172          | 6840                             |
|            | 0.109     | 1.032"     | 1.328          | 7840                             |
|            | 0.120     | 1.010"     | 1.448          | 8640                             |
|            | 1-1/2"    | 0.065      | 1.370"         | 0.9962                           |
| 0.083      |           | 1.334"     | 1.256          | 4980                             |
| 0.095      |           | 1.310"     | 1.426          | 5700                             |
| 0.109      |           | 1.282"     | 1.619          | 6540                             |
| 0.120      |           | 1.260"     | 1.769          | 7200                             |
| 0.134      |           | 1.232"     | 1.955          | 8040                             |

| O.D. (IN.) | WALL DEC. | I.D. (IN.) | WEIGHT PER FT. | ESTIMATED BURSTING PRESSURE, PSI |
|------------|-----------|------------|----------------|----------------------------------|
| 1-3/4"     | 0.065     | 1.620"     | 1.169          | 3340                             |
|            | 0.083     | 1.584"     | 1.477          | 4150                             |
|            | 0.095     | 1.560"     | 1.679          | 6188                             |
|            | 0.120     | 1.510"     | 2.089          | 7975                             |
|            | 0.134     | 1.482"     | 2.313          | 8938                             |
|            | 2"        | 0.065      | 1.870"         | 1.343                            |
| 0.083      |           | 1.834"     | 1.699          | 3735                             |
| 0.095      |           | 1.810"     | 1.933          | 5500                             |
| 0.120      |           | 1.760"     | 2.409          | 6875                             |
|            | 0.134     | 1.732"     | 2.670          | 7838                             |

### DATA ON HYDRAULIC FLUID LINE TUBING

| PHYSICAL   |               |
|------------|---------------|
| Carbon     | 0.018 maximum |
| Manganese  | 0.030 - 0.060 |
| Phosphorus | 0.040 maximum |
| Sulphur    | 0.050 maximum |

| MECHANICAL PROPERTIES       |                       |
|-----------------------------|-----------------------|
| Yield (minimum)             | 25,000 psi            |
| Ultimate Strength (minimum) | 45,000 psi            |
| Elongation (in 2" minimum)  | 35%                   |
| Hardness (maximum)          | 65 (Rockwell B scale) |

For all your Mechanical Tubing and Chrome Bar needs