

Welded Tubes Specialties

135 Penniman Ave. - Orwell, Ohio 44076 - 440.437.5144

Tight Tolerance Tubing Welded Tubes, Inc. standards for tolerances are tighter than ASTM A513 specifications.

Rounds

Outside Diameter Range (in.)	Wall Thickness (inches)	ASTM Specified Tolerance, +/-	Welded Tubes Standard +/- Tolerance, +/-
3/8 to 1/2	.024 to .083	n/a	.003
1/2 to 1 1/8	.024 to .083	n/a	.003
1/2 to 1 1/8	.065 to .083	.0035	.003
1 1/8 to 2	.024 to .120	n/a	.003 to .006
1 1/8 to 2	.065 to .120	.005	.003 to .005
2 to 2 1/2	.024 to .120	n/a	.005 to .006
2 to 2 1/2	.065 to .120	.006	.005

Wall Thickness (inches)	ASTM Specified Range(in.)	Welded Tubes Standard Range(in.)
.024	.021 - .027	.023 - .025
.028	.027 - .033	.026 - .029
.035	.030 - .037	.033 - .036
.039	n/a	.0375 - .0405
.042	.036 - .044	.040 - .044
.049	.043 - .052	.045 - .049
.051	n/a	.051 - .055
.058	n/a	.055 - .059
.065	.058 - .070	.060 - .064
.066	n/a	.063 - .067
.070	n/a	.066 - .070
.078	n/a	.076 - .081
.083	.076 - .089	.080 - .085

Other Shapes

Squares – 3/8", 1/2", 5/8", 3/4", 13/16", 7/8", 1" 1 1/8", 1 1/4"

Rectangles - 3/8" x 5/8"
 3/8" x 3/4"
 3/8" x 7/8"
 3/8" x 1"
 3/8" x 1 1/4"
 3/8" x 1 1/2"
 5/8" x 7/8"
 5/8" x 1"
 5/8" x 1 1/8"

5/8" x 1 1/4"
5/8" x 1 5/8"
1/2" x 1"
1/2" x 1 1/4"
1/2" x 1 1/2"
1/2" x 2"
3/4" x 1"
3/4" x 1 3/4"
3/4" x 1 1/2"
3/4" x 2"
7/8" x 1 1/4"
1" x 1 1/4"
1" x 1 1/2"
1" x 2"
.312" x 1 1/4"

Flat Ovals - .410" x .1,261"
.633" x 1.250"
.500" x 2 1/4"
.875" x 2.220"
.313" x 2.750"

Octagon – 1 1/2"

Extreme t/D Ratios

- Welded Tubes, Inc. can produce hard to make t/D ratios.
 - 10mm OD with a 2mm wall - t/D ratio is .200 – **Small OD – Heavy Wall**
 - .375" OD with a .083" wall – t/D ratio is .221 - **Small OD – Heavy Wall**
 - 2.500"OD with a .028" wall – t/D ratio is .0112 - **Large OD – Thin Wall**

Metric Tubing

- Welded Tubes Inc. is also equipped and tooled for several metric sizes ranging from 10 mm to 30mm.