

## GAUGES AND TOLERANCES FOR STEEL TUBING

Nominal sizes are in accordance with Birmingham Wire Gauges (B.W.G.).  
Tolerances are in accordance with A.S.T.M. – A513.

Gauge	Nominal Size (Inches)	Tolerances (Inches)
22	.028	.026 up to .029
21	.032	over .029 up to .033
20	.035	over .033 up to .037
19	.042	over .037 up to .045
18	.049	over .045 up to .053
17	.058	over .053 up to .060
16	.065	over .060 up to .067
15	.072	over .067 up to .077
14	.083	over .077 up to .087
13	.095	over .087 up to .100
12	.109	over .100 up to .112
11	.120	over .112 up to .124
10	.134	over .124 up to .138
9	.148	over .138 up to .153
8	.165	over .153 up to .170
7	.180	over .170 up to .185
6	.203	over .185 up to .209
5	.220	over .209 up to .224
4	.238	over .224 up to .242
3	.259	over .242 up to .263

Note: Tubing with wall thickness heavier than .259" can be supplied to mechanical tolerances if required.

### STRAIGHTNESS TOLERANCE FOR ROUND TUBING

The straightness tolerance for round tubing is 0.030 inches per 3 foot lengths (0.8 mm/m). For lengths under 1 foot, the straightness tolerance is 0.010 inches. For each additional foot of length, the tolerance is increased 0.010 inches.

Ref. ASTM A513-78