

Tubing Chart

U.S. Industry Standard Tubing Dimensions

U.S. Industry Standard

Gauge & Wall	Nominal Wall (inches)	O.D. Min. - Max. (inches)	I.D. Min. - Max. (inches)	Gauge & Wall	Nominal Wall (inches)	O.D. Min. - Max. (inches)	I.D. Min. - Max. (inches)
10mm to 5mm tubing available to specification.				19RW	0.0075	.0415 - .0425	.0255 - .0285
7TW	0.010	.1790 - .1810	.1580 - .1620	19TW	0.005	.0415 - .0425	.0315 - .0335
8TW	0.010	.1640 - .1660	.1430 - .1470	19XTW	0.0035	.0415 - .0425	.0335 - .0355
9TW	0.010	.1470 - .1490	.1260 - .1300	19UTW	0.003	.0415 - .0425	.0355 - .0370
10RW	0.014	.1330 - .1350	.1030 - .1090	(A) 20RW	0.006	.0355 - .0360	.0230 - .0245
10TW	0.010	.1330 - .1350	.1120 - .1170	(A) 20TW	0.005	.0355 - .0360	.0255 - .0270
10XTW	0.008	.1330 - .1350	.1170 - .1200	(A) 20XTW	0.004	.0355 - .0360	.0270 - .0285
10UTW	0.0055	.1330 - .1350	.1220 - .1240	(A) 20UTW	0.003	.0355 - .0360	.0285 - .0305
11RW	0.013	.1190 - .1210	.0910 - .0970	(B) 20RW	0.006	.0345 - .0355	.0225 - .0245
11TW	0.010	.1190 - .1210	.0980 - .1030	(B) 20TW	0.0044	.0345 - .0355	.0255 - .0270
11XTW	0.008	.1190 - .1210	.1030 - .1060	(B) 20XTW	0.0036	.0345 - .0355	.0270 - .0285
11UTW	0.0055	.1190 - .1210	.1080 - .1100	(B) 20UTW	0.003	.0345 - .0355	.0285 - .0305
12RW	0.012	.1080 - .1100	.0820 - .0880	21RW	0.006	.0320 - .0325	.0195 - .0210
12TW	0.009	.1080 - .1100	.0890 - .0940	21TW	0.0045	.0320 - .0325	.0225 - .0240
12XTW	0.007	.1080 - .1100	.0940 - .0970	21XTW	0.0035	.0320 - .0325	.0240 - .0255
12UTW	0.005	.1080 - .1100	.0980 - .1000	21UTW	0.003	.0320 - .0325	.0255 - .0270
13RW	0.012	.0940 - .0960	.0680 - .0740	22RW	0.006	.0280 - .0285	.0155 - .0170
13TW	0.009	.0940 - .0960	.0750 - .0800	22TW	0.004	.0280 - .0285	.0190 - .0205
13XTW	0.007	.0940 - .0960	.0800 - .0830	22XTW	0.003	.0280 - .0285	.0215 - .0230
13UTW	0.005	.0940 - .0960	.0840 - .0860	23RW	0.006	.0250 - .0255	.0125 - .0140
14RW	0.010	.0820 - .0840	.0610 - .0650	23TW	0.004	.0250 - .0255	.0165 - .0180
14TW	0.008	.0820 - .0840	.0650 - .0690	23XTW	0.003	.0250 - .0255	.0185 - .0200
14XTW	0.0055	.0820 - .0840	.0710 - .0730	23UTW	0.002	.0250 - .0255	.0195 - .0210
14UTW	0.004	.0820 - .0840	.0740 - .0760	24RW	0.005	.0220 - .0225	.0115 - .0130
15RW	0.009	.0715 - .0725	.0525 - .0555	24TW	0.004	.0220 - .0225	.0135 - .0150
15TW	0.006	.0715 - .0725	.0595 - .0615	24XTW	0.003	.0220 - .0225	.0155 - .0170
15XTW	0.0045	.0715 - .0725	.0620 - .0640	25RW	0.005	.0200 - .0205	.0095 - .0110
15UTW	0.0035	.0715 - .0725	.0640 - .0660	25TW	0.004	.0200 - .0205	.0115 - .0130
16RW	0.009	.0645 - .0655	.0455 - .0485	25XTW	0.003	.0200 - .0205	.0135 - .0150
16TW	0.006	.0645 - .0655	.0525 - .0545	25UTW	0.002	.0200 - .0205	.0155 - .0170
16XTW	0.0045	.0645 - .0655	.0550 - .0570	26RW	0.004	.0180 - .0185	.0095 - .0110
16UTW	0.0035	.0645 - .0655	.0570 - .0590	26TW	0.003	.0180 - .0185	.0115 - .0130
17RW	0.008	.0575 - .0585	.0405 - .0435	27RW	0.004	.0160 - .0165	.0075 - .0090
17TW	0.0055	.0575 - .0585	.0465 - .0485	27TW	0.003	.0160 - .0165	.0095 - .0110
17XTW	0.004	.0575 - .0585	.0490 - .0510	28RW	0.0035	.0140 - .0145	.0065 - .0080
17UTW	0.0035	.0575 - .0585	.0500 - .0520	29RW	0.003	.0130 - .0135	.0065 - .0080
(A) 18RW	0.0085	.0495 - .0505	.0315 - .0345	30RW	0.003	.0120 - .0125	.0055 - .0070
(A) 18TW	0.006	.0495 - .0505	.0375 - .0395	30HW	0.004	.0120 - .0125	.0035 - .0050
(A) 18XTW	0.004	.0495 - .0505	.0410 - .0430	31RW	0.0030	0.0098 - 0.0107	0.0039 - 0.0048
(A) 18UTW	0.003	.0495 - .0505	.0430 - .0450	31TW	0.0020	0.0098 - 0.0107	0.0059 - 0.0067
(B) 18RW	0.0085	.0485 - .0495	.0315 - .0345	32RW	0.0022	0.0090 - 0.0095	0.0035 - 0.0050
(B) 18TW	0.005	.0485 - .0495	.0375 - .0395	34RW	0.0016	0.0066 - 0.0075	0.0035 - 0.0044
(B) 18XTW	0.004	.0485 - .0495	.0400 - .0420	36RW	0.001	.0035 - .0044	.0011 - .0028
(B) 18UTW	0.003	.0485 - .0495	.0420 - .0440	37RW	0.0006	.0027 - .0036	.0011 - .0028

**Stiffness available to conform to GG-N-196 or ISO 9626.
Custom size dimensions and finishes available upon request.**

ISO Standard Tubing

Per ISO 9626

Designated Metric Size	Gauge ¹	Range of Outside Diameters		Inside Diameter ²	Designated Metric Size	Gauge ¹	Range of Outside Diameters		Inside Diameter ²
		Min (mm)	Max (mm)	Min (mm)			Min (mm)	Max (mm)	Min (mm)
0.2NW	33	0.203	0.216	0.089	0.9NW	20	0.860	0.920	0.560
0.2TW	33	0.203	0.216	0.105	0.9TW	20	0.860	0.920	0.635
					0.9XTW	20	0.860	0.920	0.687
0.23NW	32	0.229	0.241	0.089	1.1NW	19	1.030	1.100	0.648
0.23TW	32	0.229	0.241	0.105	1.1TW	19	1.030	1.100	0.750
					1.1XTW	19	1.030	1.100	0.850
0.25NW	31	0.254	0.267	0.114	1.2NW	18	1.200	1.300	0.790
0.25TW	31	0.254	0.267	0.125	1.2TW	18	1.200	1.300	0.910
					1.2XTW	18	1.200	1.300	1.041
0.3NW	30	0.298	0.320	0.133	1.4NW	17	1.400	1.510	0.950
0.3TW	30	0.298	0.320	0.165	1.4TW	17	1.400	1.510	1.156
					1.4XTW	17	1.400	1.510	1.244
0.33NW	29	0.324	0.351	0.133	1.6NW	16	1.600	1.690	1.100
0.33TW	29	0.324	0.351	0.190	1.6TW	16	1.600	1.690	1.283
					1.6XTW	16	1.600	1.690	1.390
0.36NW	28	0.349	0.370	0.133	1.8NW	15	1.750	1.900	1.300
0.36TW	28	0.349	0.370	0.190	1.8TW	15	1.750	1.900	1.460
					1.8XTW	15	1.750	1.900	1.560
0.4NW	27	0.400	0.420	0.184	2.1NW	14	1.950	2.150	1.500
0.4TW	27	0.400	0.420	0.241	2.1TW	14	1.950	2.150	1.600
					2.1XTW	14	1.950	2.150	1.727
0.45NW	26	0.440	0.470	0.232	2.4NW	13	2.300	2.500	1.700
0.45TW	26	0.440	0.470	0.292	2.4TW	13	2.300	2.500	1.956
					2.7NW	12	2.650	2.850	1.950
0.5NW	25	0.500	0.530	0.232	2.7TW	12	2.650	2.850	2.235
0.5TW	25	0.500	0.530	0.292	3.0NW	11	2.950	3.150	2.200
					3.0TW	11	2.950	3.150	2.464
0.55NW	24	0.550	0.580	0.280	3.4NW	10	3.300	3.500	2.500
0.55TW	24	0.550	0.580	0.343	3.4TW	10	3.300	3.500	2.819
0.6NW	23	0.600	0.673	0.317					
0.6TW	23	0.600	0.673	0.370					
0.6XTW	23	0.600	0.673	0.460					
0.7NW	22	0.698	0.730	0.390					
0.7TW	22	0.698	0.730	0.440					
0.7XTW	22	0.698	0.730	0.522					
0.8NW	21	0.800	0.830	0.490					
0.8TW	21	0.800	0.830	0.547					
0.8XTW	21	0.800	0.830	0.610					

¹ This is the closest US Gauge to the ISO version.

² Per the amendment, ISO has removed Maximum Inside Diameter.

**10mm to 5mm tubing available to specification.
Stiffness per ISO 9626, Amendment 1 2001-06-01
Custom size dimensions and finishes available upon request.**