



**Seamless Mechanical Tube Tolerance**  
Cold Drawn Round Carbon Steel  
Diameter Tolerances

O.D. Size Range in Inches	Wall: Percent of O.D.	Unannealed or Stress Relief Annealed				Soft Annealed or Normalized				Oil Quenched & Tempered
		O.D. Inches		I.D. Inches		O.D. Inches		I.D. Inches		O.D. & I.D.
		Plus	Minus	Plus	Minus	Plus	Minus	Plus	Minus	Plus / Minus
Up to 0.499	All	0.004	0.000			0.005	0.002			0.005
0.500-1.699	All	0.005	0.000	0.000	0.005	0.007	0.002	0.002	0.007	0.007
1.700-2.099	All	0.006	0.000	0.000	0.006	0.006	0.005	0.005	0.006	0.008
2.100-2.499	All	0.007	0.000	0.000	0.007	0.008	0.005	0.005	0.008	0.009
2.500-2.899	All	0.008	0.000	0.000	0.008	0.009	0.005	0.005	0.009	0.010
2.900-3.299	All	0.009	0.000	0.000	0.009	0.011	0.005	0.005	0.011	0.012
3.300-3.699	All	0.010	0.000	0.000	0.010	0.013	0.005	0.005	0.013	0.013
3.700-4.099	All	0.011	0.000	0.000	0.011	0.013	0.007	0.010	0.010	0.014
4.100-4.499	All	0.012	0.000	0.000	0.012	0.014	0.007	0.011	0.011	0.015
4.500-4.899	All	0.013	0.000	0.000	0.013	0.016	0.007	0.012	0.012	0.017
4.900-5.299	All	0.014	0.000	0.000	0.014	0.018	0.007	0.013	0.013	0.018
5.300-5.549	All	0.015	0.000	0.000	0.015	0.020	0.007	0.014	0.014	0.019
5.500-5.999	Under 6	0.010	0.010	0.010	0.010	0.018	0.018	0.018	0.018	0.025
	6 to 7 1/2	0.009	0.009	0.009	0.009	0.016	0.016	0.016	0.016	0.023
	Over 7 1/2	0.018	0.000	0.009	0.009	0.017	0.015	0.016	0.016	0.023
6.000-6.499	Under 6	0.013	0.013	0.013	0.013	0.023	0.023	0.023	0.023	0.033
	6 to 7 1/2	0.010	0.010	0.010	0.010	0.018	0.018	0.018	0.018	0.025
	Over 7 1/2	0.020	0.000	0.010	0.010	0.020	0.015	0.018	0.018	0.025
6.500-6.999	Under 6	0.015	0.015	0.015	0.015	0.027	0.027	0.027	0.027	0.038
	6 to 7 1/2	0.012	0.012	0.012	0.012	0.021	0.021	0.021	0.021	0.029
	Over 7 1/2	0.012	0.012	0.012	0.012	0.021	0.021	0.021	0.021	0.029
7.000-7.499	Under 6	0.018	0.018	0.018	0.018	0.032	0.032	0.032	0.032	0.045
	6 to 7 1/2	0.013	0.013	0.013	0.013	0.023	0.023	0.023	0.023	0.033
	Over 7 1/2	0.026	0.000	0.013	0.013	0.031	0.015	0.023	0.023	0.033
7.500-7.999	Under 6	0.020	0.020	0.020	0.020	0.035	0.035	0.035	0.035	0.050
	6 to 7 1/2	0.015	0.015	0.015	0.015	0.026	0.026	0.026	0.026	0.037
	Over 7 1/2	0.029	0.000	0.015	0.015	0.036	0.015	0.026	0.026	0.037
8.000-8.499	Under 6	0.023	0.023	0.023	0.023	0.041	0.042	0.041	0.041	0.058
	6 to 7 1/2	0.016	0.016	0.016	0.016	0.028	0.028	0.028	0.028	0.040
	Over 7 1/2	0.031	0.000	0.015	0.016	0.033	0.022	0.028	0.028	0.040
8.500-8.999	Under 6	0.025	0.025	0.025	0.025	0.044	0.044	0.044	0.044	0.063
	6 to 7 1/2	0.017	0.017	0.017	0.017	0.030	0.030	0.030	0.030	0.043
	Over 7 1/2	0.034	0.000	0.015	0.019	0.038	0.022	0.030	0.030	0.043
9.000-9.499	Under 6	0.028	0.028	0.028	0.028	0.045	0.045	0.049	0.049	0.070
	6 to 7 1/2	0.019	0.019	0.019	0.019	0.033	0.033	0.033	0.033	0.047
	Over 7 1/2	0.037	0.000	0.015	0.022	0.043	0.022	0.033	0.033	0.047
9.500-9.999	Under 6	0.030	0.030	0.030	0.030	0.045	0.045	0.053	0.053	0.075
	6 to 7 1/2	0.020	0.020	0.020	0.020	0.035	0.035	0.035	0.035	0.050
	Over 7 1/2	0.040	0.000	0.015	0.025	0.048	0.022	0.035	0.035	0.050
10.000-10.999	Under 6	0.034	0.034	0.034	0.034	0.045	0.045	0.060	0.060	0.080
	6 to 7 1/2	0.022	0.022	0.022	0.022	0.039	0.039	0.039	0.039	0.055
	Over 7 1/2	0.044	0.000	0.015	0.029	0.055	0.022	0.039	0.039	0.055
11.000-12.000	Under 6	0.035	0.035	0.035	0.035	0.050	0.050	0.065	0.065	
	6 to 7 1/2	0.025	0.025	0.025	0.025	0.045	0.045	0.045	0.045	
	Over 7 1/2	0.045	0.000	0.015	0.035	0.060	0.022	0.045	0.045	

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