



DOM Mechanical Steel Tube Tolerances
Cold Drawn Round Welded & Drawn Over Mandrel

Diameter Tolerances						Wall Tolerances				
OD Size Range	Wall: Percent of OD	OD Inches		ID Inches		Wall Thickness, Inches	Including 0.375 to 0.875 OD	Over 0.875 to 1.875 OD	Over 1.875 to 3.750 OD	Over 3.750 to 15.000 OD
		Plus	Minus	Plus	Minus					
Up to 0.499	All	0.004	0.000			0.028 & 0.035	+ 0.002	+ 0.002	+ 0.002	
1.700-2.099	All	0.005	0.000	0.000	0.005		- 0.002	- 0.002	- 0.002	
2.100-2.499	All	0.007	0.000	0.000	0.007	0.049	+ 0.002	+ 0.002	+ 0.002	
2.500-2.899	All	0.008	0.000	0.000	0.008		- 0.002	- 0.003	- 0.003	
2.900-3.299	All	0.009	0.000	0.000	0.009	0.065	+ 0.002	+ 0.002	+ 0.002	+ 0.004
3.300-3.699	All	0.010	0.000	0.000	0.010		- 0.002	- 0.003	- 0.003	- 0.004
3.700-4.099	All	0.011	0.000	0.000	0.011	0.083	+ 0.002	+ 0.002	+ 0.003	+ 0.004
4.100-4.499	All	0.012	0.000	0.000	0.012		- 0.002	- 0.003	- 0.003	- 0.005
4.500-4.899	All	0.013	0.000	0.000	0.013	0.095	+ 0.002	+ 0.002	+ 0.003	+ 0.004
4.900-5.299	All	0.014	0.000	0.000	0.014		- 0.002	- 0.003	- 0.003	- 0.005
5.300-5.549	All	0.015	0.000	0.000	0.015	0.109	+ 0.002	+ 0.002	+ 0.003	+ 0.005
5.550-5.999	Under 6	0.010	0.010	0.010	0.010		- 0.003	- 0.004	- 0.003	- 0.005
	6 to 7 1/2	0.009	0.009	0.009	0.009	0.120	+ 0.003	+ 0.002	+ 0.003	+ 0.005
6.000-6.499	Under 6	0.013	0.013	0.013	0.013		- 0.003	- 0.004	- 0.003	- 0.005
	6 to 7 1/2	0.010	0.010	0.010	0.010	0.134		+ 0.002	+ 0.003	+ 0.005
6.500-6.999	Under 6	0.015	0.015	0.015	0.015			- 0.004	- 0.003	- 0.005
	6 to 7 1/2	0.012	0.012	0.012	0.012	0.148		+ 0.002	+ 0.003	+ 0.005
7.000-7.499	Under 6	0.018	0.018	0.018	0.018			- 0.004	- 0.003	- 0.005
	6 to 7 1/2	0.013	0.013	0.013	0.013	0.165		+ 0.003	+ 0.003	+ 0.005
7.500-7.999	Under 6	0.020	0.020	0.020	0.020			- 0.004	- 0.004	- 0.006
	6 to 7 1/2	0.015	0.015	0.015	0.015	0.180		+ 0.004	+ 0.003	+ 0.006
8.000-8.499	Under 6	0.023	0.023	0.023	0.023			- 0.004	- 0.005	- 0.006
	6 to 7 1/2	0.016	0.016	0.016	0.016	0.203		+ 0.004	+ 0.004	+ 0.006
8.500-8.999	Under 6	0.025	0.025	0.025	0.025			- 0.005	- 0.005	- 0.007
	6 to 7 1/2	0.017	0.017	0.017	0.017	0.220		+ 0.004	+ 0.004	+ 0.007
9.000-9.499	Under 6	0.028	0.028	0.028	0.028			- 0.006	- 0.006	- 0.007
	6 to 7 1/2	0.019	0.019	0.019	0.019	0.238		+ 0.005	+ 0.005	+ 0.007
9.500-9.999	Under 6	0.030	0.030	0.030	0.030			- 0.006	- 0.006	- 0.007
	6 to 7 1/2	0.020	0.020	0.020	0.020	0.259		+ 0.005	+ 0.005	+ 0.007
10.000-10.999	Under 6	0.034	0.034	0.034	0.034			- 0.006	- 0.006	- 0.007
	6 to 7 1/2	0.022	0.022	0.022	0.022	0.284		+ 0.005	+ 0.005	+ 0.007
11.000-11.999	Under 6	0.035	0.035	0.035	0.035			- 0.006	- 0.006	- 0.007
	6 to 7 1/2	0.025	0.025	0.025	0.025	0.300		+ 0.006	+ 0.006	+ 0.008
12.000-12.999	Under 6	0.036	0.036	0.036	0.036			- 0.006	- 0.006	- 0.008
	6 to 7 1/2	0.027	0.027	0.027	0.027	0.320		+ 0.007	+ 0.007	+ 0.008
13.000-13.999	Under 6	0.037	0.037	0.037	0.037			- 0.007	- 0.007	- 0.008
	6 to 7 1/2	0.029	0.029	0.029	0.029	0.344		+ 0.008	+ 0.008	+ 0.009
14.000-15.000	Under 6	0.038	0.038	0.038	0.038			- 0.008	- 0.008	- 0.009
	6 to 7 1/2	0.030	0.030	0.030	0.030	0.375			+ 0.009	+ 0.009
									- 0.009	- 0.009
						0.400			+ 0.010	+ 0.010
									- 0.010	- 0.010
						0.438			+ 0.011	+ 0.011
									- 0.011	- 0.011
						0.480			+ 0.012	+ 0.012
									- 0.012	- 0.012
						0.531			+ 0.013	+ 0.013
									- 0.013	- 0.013
						0.563			+ 0.013	+ 0.013
									- 0.013	- 0.013
						0.580			+ 0.014	+ 0.014
									- 0.014	- 0.014
						0.600			+ 0.015	+ 0.015
									- 0.015	- 0.015
						0.625			+ 0.016	+ 0.016
									- 0.016	- 0.016
						0.650				+ 0.017
										- 0.017

Straightness Tolerance

.030" in any 3 ft. of length up to 7.500" OD

.060" in any 3 ft. of length over 7.500" OD

Tabulated tolerances can be applied simultaneously to only two of three cross-sectional dimensions, i.e. OD x Wall, OD x ID or ID x Wall.

ID Tolerances apply only to tube specified OD x ID or ID x Wall.

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