

Approximate Tube Inside Diameters Before & After Roller Expansion (Inches)

Tube Inside Diameters As Manufactured														
Wall Thickness		Tube OD												
BWG	Decimal	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2
8	0.165	0.045	0.170	0.295	0.420	0.545	0.670	0.795	0.920	1.045	1.170	1.295	1.420	1.670
9	0.148	0.079	0.204	0.329	0.454	0.579	0.704	0.829	0.954	1.079	1.204	1.329	1.454	1.704
10	0.134	0.107	0.232	0.357	0.482	0.607	0.732	0.857	0.982	1.107	1.232	1.357	1.482	1.732
11	0.120	0.135	0.260	0.385	0.510	0.635	0.760	0.885	1.010	1.135	1.260	1.385	1.510	1.760
12	0.109	0.157	0.282	0.407	0.532	0.657	0.782	0.907	1.032	1.157	1.282	1.407	1.532	1.782
13	0.095	0.185	0.310	0.435	0.560	0.685	0.810	0.935	1.060	1.185	1.310	1.435	1.560	1.810
14	0.083	0.209	0.334	0.459	0.584	0.709	0.834	0.959	1.084	1.209	1.334	1.459	1.584	1.834
15	0.072	0.231	0.356	0.481	0.606	0.731	0.856	0.981	1.106	1.231	1.356	1.481	1.606	1.856
16	0.065	0.245	0.370	0.495	0.620	0.745	0.870	0.995	1.120	1.245	1.370	1.495	1.620	1.870
17	0.058	0.259	0.384	0.509	0.634	0.759	0.884	1.009	1.134	1.259	1.384	1.509	1.634	1.884
18	0.049	0.277	0.402	0.527	0.652	0.777	0.902	1.027	1.152	1.277	1.402	1.527	1.652	1.902
19	0.042	0.291	0.416	0.541	0.666	0.791	0.916	1.041	1.166	1.291	1.416	1.541	1.666	1.916
20	0.035	0.305	0.430	0.555	0.680	0.805	0.930	1.055	1.180	1.305	1.430	1.555	1.680	1.930
21	0.032	0.311	0.436	0.561	0.686	0.811	0.936	1.061	1.186	1.311	1.436	1.561	1.686	1.936
22	0.028	0.319	0.444	0.569	0.694	0.819	0.944	1.069	1.194	1.319	1.444	1.569	1.694	1.944
23	0.025	0.325	0.450	0.575	0.700	0.825	0.950	1.075	1.200	1.325	1.450	1.575	1.700	1.950
24	0.022	0.331	0.456	0.581	0.706	0.831	0.956	1.081	1.206	1.331	1.456	1.581	1.706	1.956

Tube Inside Diameters After Roller Expansion														
Wall Thickness		Tube OD												
BWG	Decimal	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2
8	0.165	0.078	0.203	0.328	0.453	0.578	0.703	0.828	0.953	1.078	1.203	1.328	1.453	1.703
9	0.148	0.109	0.234	0.359	0.484	0.609	0.734	0.859	0.984	1.109	1.234	1.359	1.484	1.734
10	0.134	0.134	0.259	0.384	0.509	0.634	0.759	0.884	1.009	1.134	1.259	1.384	1.509	1.759
11	0.120	0.159	0.284	0.409	0.534	0.659	0.784	0.909	1.034	1.159	1.284	1.409	1.534	1.784
12	0.109	0.179	0.304	0.429	0.554	0.679	0.804	0.929	1.054	1.179	1.304	1.429	1.554	1.804
13	0.095	0.204	0.329	0.454	0.579	0.704	0.829	0.954	1.079	1.204	1.329	1.454	1.579	1.829
14	0.083	0.226	0.351	0.476	0.601	0.726	0.851	0.976	1.101	1.226	1.351	1.476	1.601	1.851
15	0.072	0.245	0.370	0.495	0.620	0.745	0.870	0.995	1.120	1.245	1.370	1.495	1.620	1.870
16	0.065	0.258	0.383	0.508	0.633	0.758	0.883	1.008	1.133	1.258	1.383	1.508	1.633	1.883
17	0.058	0.271	0.396	0.521	0.646	0.771	0.896	1.021	1.146	1.271	1.396	1.521	1.646	1.896
18	0.049	0.287	0.412	0.537	0.662	0.787	0.912	1.037	1.162	1.287	1.412	1.537	1.662	1.912
19	0.042	0.299	0.424	0.549	0.674	0.799	0.924	1.049	1.174	1.299	1.424	1.549	1.674	1.924
20	0.035	0.312	0.437	0.562	0.687	0.812	0.937	1.062	1.187	1.312	1.437	1.562	1.687	1.937
21	0.032	0.317	0.442	0.567	0.692	0.817	0.942	1.067	1.192	1.317	1.442	1.567	1.692	1.942
22	0.028	0.325	0.450	0.575	0.700	0.825	0.950	1.075	1.200	1.325	1.450	1.575	1.700	1.950
23	0.025	0.330	0.455	0.580	0.705	0.830	0.955	1.080	1.205	1.330	1.455	1.580	1.705	1.955
24	0.022	0.335	0.460	0.585	0.710	0.835	0.960	1.085	1.210	1.335	1.460	1.585	1.710	1.960

NOTE: TUBE INSIDE DIAMETERS AFTER ROLLER EXPANSION ARE ESTIMATED ASSUMING A 10% WALL THICKNESS LOSS, FORMULA = [(OD - 2 * (WT * 0.9)]

North, Central & South America EST Group 2701 Township Line Road Hatfield, PA 19440-1770 USA | +1.215.721.1100 +1.800.355.7044 | est-info@curtisswright.com

Europe / Middle East / Africa EST Group B.V. Hoorn 312a 2404 HL Alphen aan den Rijn The Netherlands | +31.172.418841 | est-emea@curtisswright.com

China +86.400.636.5077 | est-china@curtisswright.cn | Singapore +65.3158.5052 | est-asia@curtisswright.com