

TUBE BURST CHART



The information presented below are typical or average values and are not a guarantee of maximum or minimum values.

Tube Size	DATA	0.016	0.02	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.12	0.134	0.156	0.188	0.25	0.313	0.375	0.5	0.75
1/16	PRESSURE	38,400	48,800																
	WT/FT.	0.008	0.009																
1/8	PRESSURE	19,200	24,000	39,000	42,000	58,800													
	WT/FT.	0.019	0.022	0.029	0.033	0.04													
3/16	PRESSURE	12,800	15,998	22,403	29,498	39,203	51,863												
	WT/FT.	0.029	0.035	0.047	0.057	0.073	0.083												
1/4	PRESSURE		12,000	16,800	21,000	29,400	39,000	49,800	57,000										
	WT/FT.		0.049	0.066	0.08	0.105	0.128	0.148	0.157										
5/16	PRESSURE		9,600	13,400	16,800	23,520	31,200	39,780	45,750										
	WT/FT.		0.062	0.085	0.103	0.138	0.172	0.203	0.221										
3/8	PRESSURE		8,003	11,998	14,003	19,598	26,003	33,203	38,003	43,598	48,000								
	WT/FT.		0.075	0.103	0.127	0.17	0.215	0.258	0.284	0.309	0.326								
7/16	PRESSURE		6,857	9,600	12,000	16,800	22,285	28,457	32,571	37,371	41,143								
	WT/FT.		0.089	0.123	0.151	0.204	0.259	0.315	0.348	0.383	0.408								
1/2	PRESSURE		6,000	8,400	10,500	14,700	19,500	24,900	28,500	32,700	36,000								
	WT/FT.		0.102	0.141	0.173	0.236	0.302	0.369	0.418	0.455	0.487								
9/16	PRESSURE		5,333	7,467	9,333	13,067	17,333	22,133	25,333	29,066	32,000								
	WT/FT.		0.116	0.16	0.197	0.269	0.346	0.426	0.475	0.529	0.568								
5/8	PRESSURE		4,800	6,720	8,400	11,760	15,600	19,900	22,888	26,160	28,800	32,160	37,440	44,880					
	WT/FT.		0.129	0.178	0.221	0.301	0.388	0.48	0.573	0.6	0.647	0.703	0.781	0.877					
3/4	PRESSURE		3,998	5,603	6,998	9,803	12,997	16,598	18,998	21,803	24,000	26,800	31,200	37,403					
	WT/FT.		0.155	0.215	0.267	0.366	0.475	0.591	0.664	0.746	0.807	0.882	0.99	1.128					
7/8	PRESSURE		3,428	4,800	6,000	8,400	11,145	14,228	16,283	18,683	20,573	22,971	26,745	32,055					
	WT/FT.		0.183	0.253	0.314	0.432	0.562	0.702	0.791	0.891	0.968	1.061	1.198	1.379					
1	PRESSURE		3,000	4,200	5,250	7,350	9,750	12,450	14,250	16,350	18,000	20,100	23,400	28,050	37,500				
	WT/FT.		0.209	0.29	0.36	0.497	0.649	0.812	0.918	1.037	1.128	1.239	1.406	1.63	2.003				
1-1/8	PRESSURE		2,663	3,735	4,665	6,533	8,670	11,070	12,668	14,535	15,998	17,866	20,798	24,930	33,330				
	WT/FT.		0.236	0.328	0.407	0.563	0.736	0.923	1.045	1.183	1.288	1.418	1.614	1.881	2.336				
1-1/4	PRESSURE		2,400	3,360	4,200	5,880	7,800	9,960	11,400	13,080	14,400	16,080	18,720	22,440	30,000				
	WT/FT.		0.262	0.365	0.454	0.628	0.822	1.034	1.172	1.328	1.448	1.597	1.823	2.132	2.67				
1-3/8	PRESSURE			3,053	3,818	5,348	7,087	9,053	10,365	11,888	13,088	14,618	17,018	20,400	27,270				
	WT/FT.			0.402	0.501	0.694	0.909	1.145	1.299	1.473	1.608	1.776	2.031	2.383	3.004				
1-1/2	PRESSURE			2,948	3,503	4,898	6,503	8,303	9,503	10,890	12,000	13,400	15,600	18,698	24,998				
	WT/FT.			0.44	0.547	0.759	0.996	1.256	1.426	1.619	1.769	1.955	2.239	2.634	3.338				
1-5/8	PRESSURE				3,230	4,523	6,000	7,662	8,769	10,062	11,077	12,369	14,400	17,354	23,077				
	WT/FT.				0.594	0.825	1.083	1.367	1.552	1.765	1.929	2.134	2.447	2.885	3.671				
1-3/4	PRESSURE				3,000	4,200	5,573	7,118	8,145	9,345	10,283	11,486	13,373	16,028	21,428				
	WT/FT.				0.641	0.89	1.17	1.478	1.679	1.91	2.16	2.313	2.656	3.136	4.005				
2	PRESSURE				2,625	3,675	4,875	6,225	7,125	8,175	9,000	10,050	11,700	14,025	18,750	23,475	28,125	37,500	
	WT/FT.				0.734	1.021	1.343	1.699	1.933	2.201	2.409	2.671	3.072	3.638	4.673	5.639	6.508	8.01	
2-1/4	PRESSURE				2,333	3,270	4,335	5,535	6,330	7,268	8,003	8,933	10,403	12,465	16,665	20,865	24,998	33,330	
	WT/FT.				0.828	1.152	1.517	1.921	2.25	2.556	2.73	3.028	3.489	4.14	5.34	6.475	7.509	9.345	
2-1/2	PRESSURE				2,100	2,940	3,900	4,980	5,700	6,540	7,200	8,040	9,360	11,220	15,000	18,780	22,500	30,000	
	WT/FT.				0.921	1.283	1.69	2.143	2.44	2.783	3.05	3.386	3.905	4.642	6.008	7.311	8.511	10.68	
2-3/4	PRESSURE				1,913	2,670	3,548	4,530	5,183	5,948	6,548	7,309	8,513	10,200	13,636	17,070	20,453	27,270	40,913
	WT/FT.				1.015	1.413	1.864	2.364	2.699	3.177	3.495	3.744	4.322	5.144	6.675	8.147	9.512	12.015	16.02
3	PRESSURE				1,748	2,453	3,248	4,148	4,748	5,453	6,000	6,700	7,800	9,353	12,503	15,653	18,750	24,998	37,500
	WT/FT.				1.108	1.544	2.037	2.586	2.947	3.393	3.691	4.102	4.739	5.646	7.343	8.982	10.513	13.35	18.02
3-1/4	PRESSURE						3,000	3,838	4,388	5,033	5,535	6,185	7,200	8,633	11,535	14,445	17,310	23,078	34,613
	WT/FT.						2.211	2.805	3.201	3.634	3.975	4.459	5.155	6.148	8.01	9.818	11.514	14.685	20.025
3-1/2	PRESSURE						2,783	3,555	4,073	4,673	5,145	5,743	6,683	8,018	10,718	13,418	16,073	21,428	32,146
	WT/FT.						2.385	3.029	3.455	3.976	4.385	4.817	5.571	6.65	8.678	10.65	12.515	16.02	22.027
3-3/4	PRESSURE						2,603	3,323	3,803	4,358	4,800	5,360	6,240	7,478	9,998	12,518	15,000	20,003	30,000
	WT/FT.						2.558	3.248	3.708	4.235	4.65	5.175	5.988	7.152	9.345	11.49	13.52	17.355	24.03
4	PRESSURE						2,438	3,113	3,563	4,088	4,500	5,025	5,850	7,013	9,375	11,738	14,063	18,750	28,125
	WT/FT.						2.732	3.472	3.962	4.53	4.973	5.533	6.404	7.654	10.01	12.33	14.52	18.69	26.03

Working pressures for T304/L and T316/L A269 tubing between -20°F and 100°F.

The A.S.M.E. code suggests a safety factor of four.

For higher temperatures multiply working pressure by:

E.G 5/8" O.D X .035 = 2100 P.S.I.

	300°F	500°F	1000°F
T304/L	0.828	0.744	0.665
T316/L	0.9	0.853	0.746

198 Hirsch Road Houston, Texas 77020 * P: 713.733.5500 * F: 713.733.5676 *

WWW.MSISUPPLY.COM