

**Tube Theoretical Bursting Pressure**

OD (in.)	Wall Thickness																		
	.016	.020	.028	.035	.049	.065	.083	.095	.109	.120	.134	.156	.188	.250	.313	.375	.500	.750	
1/16	38,400	48,000																	
1/8	19,200	24,000	39,000	42,000	58,800									Working pressures for 304/L and 316/L A269 tubing between -20° and 100°F					
3/16	12,800	15,998	22,403	29,498	39,203	51,863													
1/4		12,000	16,800	21,000	29,400	39,000	49,800	57,000						The ASME code suggests a safety factor of four. [1/4" OD x .035 = 5250 PSI]					
5/16		9,600	13,440	16,800	23,520	31,200	39,780	45,750											
3/8		8,003	11,998	14,003	19,598	26,003	33,203	38,003	43,598	48,000				For higher temperatures, multiply working pressure by the following:					
7/16		6,857	9,600	12,000	16,800	22,285	28,457	32,571	37,371	41,143									
1/2		6,000	8,400	10,500	14,700	19,500	24,900	28,500	32,700	36,000						300°F	500°F	1000°F	
9/16		5,333	7,467	9,333	13,067	17,333	22,133	25,333	29,066	32,000					304/L	.828	.744	.665	
5/8		4,800	6,720	8,400	11,760	15,600	19,920	22,888	26,160	28,800	32,160	37,440	44,880		316/L	.900	.853	.746	
3/4		3,998	5,603	6,998	9,803	12,997	16,598	18,998	21,803	24,000	26,800	31,200	37,403						
7/8		3,428	4,800	6,000	8,400	11,145	14,228	16,283	18,683	20,573	22,971	26,745	32,055						
1		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					
1 1/8		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					
1 1/4		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					
1 3/8			3,053	3,818	5,348	7,087	9,053	10,365	11,888	13,088	14,618	17,018	20,400	27,270					
1 1/2			2,948	3,503	4,898	6,503	8,303	9,503	10,890	12,000	13,400	15,600	18,698	24,998					
1 5/8				3,230	4,523	6,000	7,662	8,769	10,062	11,077	12,369	14,400	17,354	23,077					
1 3/4				3,000	4,200	5,573	7,118	8,145	9,345	10,283	11,486	13,373	16,028	21,428					
2				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		
2 1/4				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		
2 1/2				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		
2 3/4				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	
3				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	
3 1/4						3,000	3,833	4,388	5,033	5,535	6,185	7,200	8,633	11,535	14,445	17,310	23,078	34,613	
3 1/2						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	
3 3/4						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	
4						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	