

**HASTELLOY® C-276 (NICKEL-MOLYBDENUM-CHROMIUM) SOLUTION
ANNEALED SEAMLESS TUBING
ASTM B-622 OR EQUIVALENT**

ALLOWABLE WORKING PRESSURE

ALLOWABLE STRESS = 25,00 PSI between -20° F and 300° F

WALL THICKNESS									
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	9,175	13,322	16,887						
3/16	5,830	8,480	10,900	15,722					
1/4		6,150	7,882	11,505	15,637				
5/16		4,825	6,150	8,965	12,285				
3/8			5,042	7,295	10,042				
1/2			3,707	5,317	7,255	9,570			
5/8			2,932	4,182	5,672	7,430	8,652		
3/4			2,425	3,447	4,655	6,070	7,047	8,225	9,175
7/8			2,065	2,932	3,950	5,132	5,945	6,917	7,702
1			1,800	2,550	3,427	4,445	5,140	5,970	6,637

Factor of Safety = 4, considering tensile strength to be 100,000 PSI at room temperature

CALCULATED BURST PRESSURE

TENSILE STRENGTH = 100,000

WALL THICKNESS									
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	36,700	53,290	67,560						
3/16	23,320	33,920	43,600	62,890					
1/4		24,600	31,530	46,020	62,550				
5/16		19,300	24,600	35,860	49,140				
3/8			20,170	29,180	40,170				
1/2			14,830	21,270	29,020	38,280			
5/8			11,730	16,730	22,690	29,720	34,610		
3/4			9,700	13,790	18,620	24,280	28,190	32,900	36,700
7/8			8,260	11,730	15,800	20,530	23,780	27,670	30,810
1			7,200	10,200	13,710	17,780	20,560	23,880	26,550

Reference: ANSI B31.3, Table A-1 and Par. 304.1.2

ASME Pressure Vessels, Section VIII,

Table UNF-23.3, Par. UG-27 and Appendix 1, Par. 1-2