

**HASTELLOY® C-276 (NICKEL-MOLYBDENUM-CHROMIUM) SOLUTION
ANNEALED WELDED TUBING
ASTM B-626 OR EQUIVALENT**

ALLOWABLE WORKING PRESSURE

ALLOWABLE STRESS = 21,20 PSI between -20° F and 300° F

WALL THICKNESS									
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	7,780	11,297	14,322						
3/16	4,943	7,191	9,243	13,332					
1/4		5,215	6,684	9,756	13,260				
5/16		4,091	5,215	7,602	10,417				
3/8			4,276	6,186	8,516				
1/2			3,143	4,509	6,152	8,115			
5/8			2,486	3,546	4,810	6,300	7,337		
3/4			2,056	2,923	3,947	5,147	5,976	6,974	7,780
7/8			1,751	2,486	3,349	4,352	5,041	5,866	6,531
1			1,526	2,162	2,906	3,769	4,358	5,062	5,628

Factor of Safety = 4, considering tensile strength to be 100,000 PSI at room temperature, and a weld joint efficiency factor of approximately 0.85

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: ASME Pressure Vessels, Section VIII,

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