

**MONEL® 400 (NICKEL-COPPER) ANNEALED SEAMLESS TUBING
ASTM B-165 OR EQUIVALENT**

ALLOWABLE WORKING PRESSURE

ALLOWABLE STRESS = 17,500 PSI between -20° F and 100° F

WALL THICKNESS									
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	6,422	9,325	11,823						
3/16	4,081	5,935	7,630	11,005					
1/4		4,305	5,518	8,053	10,946				
5/16		3,378	4,305	6,275	8,598				
3/8			3,530	5,107	7,029				
1/2			2,595	3,721	5,078	6,699			
5/8			2,051	2,927	3,970	5,200	6,056		
3/4			1,696	2,412	3,259	4,249	4,933	5,755	6,422
7/8			1,446	2,051	2,764	3,592	4,161	4,842	5,391
1			1,260	1,784	2,399	3,111	3,598	4,179	4,646

Factor of Safety = 4, considering tensile strength to be 70,000 PSI at room temperature

CALCULATED BURST PRESSURE

TENSILE STRENGTH = 70,000

WALL THICKNESS									
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	25,690	37,300	47,290						
3/16	16,325	23,745	30,520	44,025					
1/4		17,220	22,070	32,215	43,785				
5/16		13,510	17,220	25,100	34,400				
3/8			14,120	20,425	28,120				
1/2			10,380	14,890	20,315	26,795			
5/8			8,210	11,710	15,885	20,805	24,225		
3/4			6,790	9,655	13,035	16,995	19,735	23,030	25,690
7/8			5,780	8,210	11,060	14,370	16,645	19,370	21,565
1			5,040	7,140	9,595	12,445	14,390	16,715	18,585

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