COPPER ANNEALED SEAMLESS TUBING
ASTM B-75 OR EQUIVALENT

ALLOWABLE WORKING PRESSURE

ALLOWABLE STRESS = 6,000 PSI between -20° F and 100° F

	WALL THICKNESS								
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	3,198	3,690	4,056						
3/16	2,034	2,370	2,616	3,774					
1/4	1,476	1,710	1,890	2,760	3,750				
5/16		1,338	1,476	2,154	2,946				
3/8		1,098	1,212	1,752	2,412	3,156			
1/2			888	1,267	1,740	2,298			
5/8			702	1,002	1,362	1,782	2,076		
3/4			582	828	1,116	1,458	1,692	1,974	
7/8			496	702	948	1,230	1,428	1,662	
1			432	612	822	1,068	1,263	1,434	1,590

Factor of Safety = 5, considering tensile strength to be 30,000 PSI at room temperature

CALCULATED BURST PRESSURE

TENSILE STRENGTH = 30,000

	WALL THICKNESS								
Tubing O.D	.028	.032	.035	.049	.065	.083	.095	.109	.120
1/8	15,985	18,460	20,270						
3/16	10,175	11,845	13,080	18,865					
1/4	7,380	8,555	9,460	13,805	18,765				
5/16		6,695	7,380	10,760	14,740				
3/8		5,495	6,050	8,755	12,050	15,780			
1/2			4,450	6,380	8,705	11,485			
5/8			3,520	5,020	6,805	8,915	10,385		
3/4			2,910	4,135	5,585	7,285	8,455	9,870	
7/8			2,480	3,520	4,740	6,160	7,135	8,300	
1			2,160	3,060	4,115	5,335	6,170	7,165	7,965

Reference: ANSI B31.3, Table A-1 and Par. 304.1.2
ASME Pressure Vessels, Section VIII,
Table UNF-23.2, Par. UG-27 and Appendix 1, Par. 1-2