

**Tube Selection
Data**

Copper Fractional Tubing

Tube O.D.	Tube Wall Thickness (Inches)							
	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120
1/8	2700	3600						
3/16	1800	2300	3400					
1/4	1300	1800	2500	3800				
5/16		1300	1900	2700				
3/8		1000	1600	2200				
1/2		800	1100	1600	2100			
5/8			900	1200	1600	1900		
3/4			700	1000	1300	1500	1800	
7/8			600	800	1100	1300	1500	
1			500	700	900	1100	1300	1500

Copper Metric Tubing

Tube O.D.	Tube Wall Thickness (mm)												
	0.71	0.89	1.00	1.25	1.50	1.65	2.00	2.11	2.41	2.50	2.77	3.00	3.05
3	3465	4400	4900										
4	2520	3230	3670	4610									
6	1610	2070	2350	3020	3670	4060							
8		1510	1710	2790	2680	2990							
10		1190	1350	1710	2090	2320							
12		970	1100	1410	1710	1900	2350	2500					
16			810	1030	1230	1390	1710	1810	2100	2190			
18				915	1100	1220	1510	1600	1840	1930	2130		
20				810	990	1090	1350	1420	1650	1710	1920		
22				740	900	990	1200	1290	1480	1550	1730		
25				640	780	870	1060	1120	1290	1350	1490	1640	1670

High quality soft annealed seamless copper tubing ASTM B-165 or equivalent

Allowable Stress = 6,500 psi between -20° F and 100° F

Safety Factor = 5 considering tensile strength to be 30,000 psi @ room temperature

Monel 400 Tubing

Tube O.D.	Tube Wall Thickness (Inches)							
	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120
1/8	7900	10100						
1/4	3700	4800	7000	9500				
3/8		3100	4400	6100				
1/2		2300	3200	4400	2100			
3/4			2200	3000	4000	4600	1800	
1				2200	290	3400	3900	4300

Fully annealed quality seamless Monel 400 hydraulic tubing ASTM B-165 or equivalent

Hardness = Rb75

Tubing free of scratches; suitable for bending and flaring

Allowable Stress = 18,500 psi between -20° F and 100° F

Safety Factor = 4 considering tensile strength to be 70,000 psi @ room temperature