

# Tubing Data Charts

## 304 & 316 Stainless Steel Annealed Seamless Tubing

ASTM A-213 or Equivalent, Maximum Hardness HRB 90

### Maximum Working Pressure (psi) for Fractional Sizes

Allowable Stress = 18,750 psi between -20° F and 100° F

For gas service, select a wall thickness that is not shaded. (See Gas Service, page 1)

TUBING O.D. (inch)	WALL THICKNESS (inch)																	
	0.010	0.012	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.148	0.156	0.180	0.188	
1/16	5690	6990	9820	12950														
1/8					8590	10970												
3/16					5510	7100	10290											
1/4					4040	5160	7560	10290										
3/8					2630	3330	4810	6620	8680									
1/2						2460	3520	4790	6300	7350								
5/8							2780	3760	4920	5710	6700							
3/4							2300	3100	4030	4670	5440	6060						
7/8							1960	2630	3410	3950	4590	5100						
1								2280	2960	3410	3960	4400						
1 1/4									2340	2690	3120	3460	3900	4340	4600	5390		
1 1/2										2230	2570	2850	3200	3560	3770	4410	4620	
2											1630	1880	2080	2340	2590	2740	3190	3350

Factor of safety = 4, considering tensile strength to be 75,000 psi at room temperature

### Calculated Burst Pressure (psi) for Fractional Sizes

Minimum Tensile Strength = 75,000 psi

For gas service, select a wall thickness that is not shaded. (See Gas Service, page 1)

TUBING O.D. (inch)	WALL THICKNESS (inch)																	
	0.010	0.012	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.148	0.156	0.180	0.188	
1/16	22760	27960	39280	51800														
1/8					34360	43880												
3/16					22040	28400	41160											
1/4					16160	20640	30240	41160										
3/8					10520	13320	19240	26480	34720									
1/2					7800	9840	14080	19160	25200	29400								
5/8							11120	15040	19680	22840	26800							
3/4							9200	12400	16120	18680	21760	24240						
7/8							7840	10520	13640	15800	18360	20400						
1								9120	11840	13640	15840	17600						
1 1/4									9360	10760	12480	13840	15600	17360	18400	21560		
1 1/2										8920	10280	11400	12800	14240	15080	17640	18480	
2											6520	7520	8320	9360	10360	10960	12760	13400