



SEAMLESS STAINLESS STEEL TUBE

TYPE: STAINLESS STEEL TUBING ASTM A269 A/W 316/316L						
METRIC RANGE:						
TUBE O.D. (MM)	WALL THICKNESS (MM)	WORKING PRESSURE (PSI)	WORKING PRESSURE (BAR)	BURSTING PRESSURE (PSI)	BURSTING PRESSURE (BAR)	WEIGHT (KG/MTR)
6	1	7400	515	29,800	2060	0.125
6	1.5	10,500	725	42,000	2900	0.169
8	1	5900	410	23,700	1640	0.175
10	1	4400	310	17,900	1240	0.255
10	1.5	7100	490	28,400	1960	0.319
10	2	9200	640	37,100	2560	0.401
12	1	3500	245	14,200	980	0.275
12	1.5	5400	375	21,700	1500	0.405
12	2	6900	480	27,800	1920	0.501
16	1.5	3500	245	14,200	980	0.545
16	2	5000	350	20,300	1400	0.701
20	2	4200	290	16,800	1160	0.901
25	2	3300	230	13,300	920	1.150

Special Note: The above working pressures are for guidance purposes only. Your design pressure or working pressure should allow for possible fluctuations of pressure during operation. This allowance should be separately determined for each application by your design department.

System Temperature

Operating temperature, is another factor in determining the proper tubing material. Stainless steel tubing is suitable for higher temperature media. Special alloys such as Alloy 600 are recommended for extremely high temperatures. The table below lists derating factors which should be applied to the recommended working pressure of tubing for elevated temperature conditions. Simply locate the correct factor in the table below and multiply this to the appropriate working pressure to achieve the elevated temperature working pressure.

Temperature Derating Factors			
Temperature (°F)	316 SS & 6Mo	304 SS	Monel 400
100	1.00	1.00	1.00
200	1.00	.84	.88
300	1.00	.75	.82
400	.97	.69	.79
500	.90	.65	.79
600	.85	.61	.79
700	.82	.59	.76
800	.80	.56	.76
900	.78	.54	
1000	.77	.52	
1100	.62	.47	
1200	.37	.32	

Example: 1/2" x 1.0 wall seamless stainless steel tubing has a working pressure of 245 bar @ room temperature. If the system were to operate @ 800°F, a factor of 80% (or .80) would apply (see Table left) and the "at temperature" system pressure would be 245 bar x .80 = 196 bar.

OTHER SIZES AVAILABLE ON REQUEST