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GASKETS VALVES COMPONENTS

Typical Sanitary Stainless Steel Tubing
Theoretical Burst Pressures (304 and 316 series)

Size OD (in)	Wall Thickness (in)	Theoretical Burst Pressure (psi)
1/2”	0.065	24,600
3/4”	0.065	14,700
1”	0.065	10,500
1-1/2”	0.065	6,600
2”	0.065	4,900
2-1/2”	0.065	3,800
3”	0.065	3,200
4”	0.083	3,000
5”	0.083	2,400
6”	0.083	2,000
8”	0.083	1,500
10”	0.083	1,200
12”	0.083	1,000

Note: ASTM specifications do not include burst pressure requirements. Barlow’s formula can be used to predict the bursting pressures of thin wall tubular or cylindrical materials due to ID pressure. The ultimate tensile strength of 70,000 psi for 304 and 316 Stainless Steel Tubing between –20°F to 100°F and a Safety Factor of 1 have been used to calculate the tabulated burst pressures. The END USER is responsible for selecting an appropriate Safety Factor for the particular application. Where tubing is joined by welding or mechanical means, the pressure rating of the joint will take precedent over the pressure rating of the tube.

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