



Tubing

ID / OD Tubing



ASTM-A270 Polished OD and ID

Size	Carton Qty	304 Part Number	316L Part Number
1"	160'	A270-G100P	A270-R100P
1½"	300'	A270-G150P	A270-R150P
2"	300'	A270-G200P	A270-R200P
2½"	200'	A270-G250P	A270-R250P
3"	200'	A270-G300P	A270-R300P
4"	100'	A270-G400P	A270-R400P



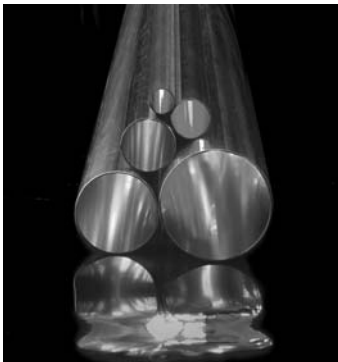
Tolerances for Welded Tubing

Tube OD Size	Nominal Wall Thickness	OD Tolerance	Wall Thickness Tolerance	Ovality Allowance
1"	.065	+ .002 / - .008	± .008	*
1½"	.065	+ .002 / - .008	± .008	*
2"	.065	+ .002 / - .011	± .008	*
2½"	.065	+ .002 / - .011	± .008	*
3"	.065	+ .003 / - .012	± .008	*
4"	.083	+ .003 / - .015	± .010	*

- * ovality cannot exceed the OD range
- ASTM-A270-02 welded austenitic stainless steel sanitary tubing

ASTM-A269 Unpolished OD and ID

Size	Carton Qty	304 Part Number	316L Part Number
1"	160'	A269-G100U	A269-R100U
1½"	300'	A269-G150U	A269-R150U
2"	300'	A269-G200U	A269-R200U
2½"	200'	A269-G250U	A269-R250U
3"	200'	A269-G300U	A269-R300U
4"	100'	A269-G400U	A269-R400U



Tolerances for Welded Tubing

Tube OD Size	Nominal Wall Thickness	OD Tolerance	Wall Thickness Tolerance	Ovality Allowance
1"	.065	± .005	± .006	.020
1½"	.065	± .010	± .006	.040
2"	.065	± .010	± .006	.040
2½"	.065	± .010	± .006	.040
3"	.065	± .010	± .006	.040
4"	.083	± .015	± .008	.060

- ASTM-A269-02 welded austenitic stainless steel sanitary tubing for general service
- other sizes and materials available, call Dixon Sanitary for information

Tubing Operating Pressures

304 Stainless Steel Tube

Tube OD Size	Nominal Wall Thickness	Working Pressure PSI	Yield Pressure PSI	Burst Pressure PSI
1"	.065	2,440	3,900	9,800
1½"	.065	1,630	2,600	6,500
2"	.065	1,220	2,000	4,900
2½"	.065	980	1,600	3,900
3"	.065	810	1,300	3,300
4"	.083	780	1,200	3,100

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:

- material: 304
- yield strength (PSI): 30,000
- tensile strength (PSI): 75,000

Working Pressure = ¼ of Burst Pressure, these calculate from -20°F to 100°F.

316L Stainless Steel Tube

Tube OD Size	Nominal Wall Thickness	Working Pressure PSI	Yield Pressure PSI	Burst Pressure PSI
1"	.065	2,280	3,300	9,100
1½"	.065	1,520	2,200	6,100
2"	.065	1,140	1,600	4,600
2½"	.065	910	1,300	3,600
3"	.065	760	1,100	3,000
4"	.083	730	1,000	2,900

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:

- material: 316L
- yield strength (PSI): 25,000
- tensile strength (PSI): 70,000

Working Pressure = ¼ of Burst Pressure, these calculate from -20°F to 100°F.

Notes:

- tubing available in 20' lengths only
- surcharges change MONTHLY
- tubing only ships via truck
- call Dixon Sanitary for pricing and full freight allowance
- other sizes may be available, call Dixon Sanitary for information