# Dixon Sanitary Tubing

3-A 33-03
331

| Tube O.D. | Nominal Wall Thickness (inches) | Gage Number | Wt. Pounds per Ft. |
|---|---|---|---|
| 1/2" | .065 | 16 | 0.31 |
| 3/4" | .065 | 16 | 0.49 |
| 1" | .065 | 16 | 0.67 |
| 1-1/2" | .065 | 16 | 1.02 |
| 2" | .065 | 16 | 1.36 |
| 2-1/2" | .065 | 16 | 1.71 |
| 3" | .065 | 16 | 2.06 |
| 4" | .083 | 14 | 3.45 |
| 6" | .109 | 12 | 6.92 |

**Size**
- 1/2" - 6" O.D. tube

**Materials**
- G = 304L stainless steel
- R = 316L stainless steel
- 3A sanitary finish I.D. and O.D.; Typical 32$R_a$
- Unpolished
- BPE finishes:
  - SF1: 20Ra I.D., 32Ra O.D.
  - SF4: 15Ra I.D., 32Ra O.D.

- Surcharges change MONTHLY
- Tubing available in 20' lengths only
- Broken box charges apply
- Tubing only ships via truck
- Tubing is NOT returnable
- Call Dixon Sanitary at 800.789.1718 for pricing, full freight allowance, and other sizes available

## Operating Pressures

304L Stainless Steel Tube

| Tube O.D. | Nominal Wall Thickness (in) | Pressure (PSI) | | |
|---|---|---|---|---|
| | | Working | Yield | Burst |
| 1/2" | .065 | **4,870** | **7,800** | **19,500** |
| 3/4" | .065 | **3,250** | **5,200** | **13,000** |
| 1" | .065 | **2,440** | **3,900** | **9,800** |
| 1-1/2" | .065 | **1,630** | **2,600** | **6,500** |
| 2" | .065 | **1,220** | **2,000** | **4,900** |
| 2-1/2" | .065 | **980** | **1,600** | **3,900** |
| 3" | .065 | **810** | **1,300** | **3,300** |
| 4" | .083 | **780** | **1,200** | **3,100** |
| 6" | .109 | **680** | **1,090** | **2,720** |

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:
- Material: 304L stainless steel
- Yield strength (**PSI**): **30,000**
- Tensile strength (**PSI**): **75,000**

Working Pressure = 1/4 of Burst Pressure, these calculate from **-20°F** to **100°F (-29°C** to **38°C)**.

316L Stainless Steel Tube

| Tube O.D. | Nominal Wall Thickness (in) | Pressure (PSI) | | |
|---|---|---|---|---|
| | | Working | Yield | Burst |
| 1/2" | .065 | **3,250** | **6,500** | **19,500** |
| 3/4" | .065 | **2,167** | **4,330** | **13,000** |
| 1" | .065 | **2,280** | **3,300** | **9,100** |
| 1-1/2" | .065 | **1,520** | **2,200** | **6,100** |
| 2" | .065 | **1,140** | **1,600** | **4,600** |
| 2-1/2" | .065 | **910** | **1,300** | **3,600** |
| 3" | .065 | **760** | **1,100** | **3,000** |
| 4" | .083 | **730** | **1,000** | **2,900** |
| 6" | .109 | **635** | **900** | **2,540** |

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:
- Material: 316L stainless steel
- Yield strength (**PSI**): **25,000**
- Tensile strength (**PSI**): **70,000**

Working Pressure = 1/4 of Burst Pressure, these calculate from **-20°F** to **100°F (-29°C** to **38°C)**.

Pipe size and tube O.D. size materials are not interchangable

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