## Seamless Stainless Steel Tube

**Material:** 1.4571 (X6CrNiMoTi17122)  
**Tensile Strength:** 500 N/mm² (72,500 lb/in²) minimum  
**Yield Strength:** 245 N/mm² (35,500 lb/in²) minimum  
**% Elongation:** 35% minimum  
**Condition:** Seamless, cold drawn, free of scale, heat-treated in accordance with DIN 17458 Table 6  
**Example of Part Number:** R25X271 where R indicates tube, 25 = outside diameter (mm), 2 = wall thickness (mm), and 71 indicates 1.4571 stainless steel

## Static Pressures

Static pressures are calculated in accordance with DIN 2413 Part 1.

## Dynamic Pressure Ratings

Dynamic pressure ratings are calculated in accordance with DIN 2413 Part 3.

Specific design factors may be determined by using the burst pressures shown in the above table.

Part numbers shown are standard from stock. Other sizes are available upon request. See Catalog 4300 for a complete listing of available sizes.

### Conversion Factors

- Bar × 14.5 = psi
- kg/m × 0.672 = lb/ft
- N/mm² × 2 × 145 = lb/in²

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### Metric Seamless Tube Stock Sizes & Specifications

<table>
<thead>
<tr>
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</tr>
</thead>
</table>
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<table>
<thead>
<tr>
<th><strong>Static Pressure (Bar)</strong></th>
<th><strong>Dynamic Pressure (Bar)</strong></th>
<th><strong>Burst Pressure (Bar)</strong></th>
<th><strong>Weight (kg/m)</strong></th>
<th><strong>Stainless Steel (kg/m)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>36</td>
<td>275</td>
<td>410</td>
<td>0.887</td>
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<tr>
<td>5</td>
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<td>345</td>
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<tr>
<td>6</td>
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<td>410</td>
<td>610</td>
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<td>8</td>
<td>64</td>
<td>560</td>
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<td>16</td>
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<td>1260</td>
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<td>3.903</td>
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<tr>
<td>20</td>
<td>200</td>
<td>1560</td>
<td>2200</td>
<td>4.806</td>
</tr>
</tbody>
</table>

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### Seamless Carbon Steel Tube

**Material:** St. 37.4 fine-grain quality per DIN 1630  
**Tensile Strength:** 340 N/mm² (49,000 lb/in²) minimum  
**Yield Strength:** 235 N/mm² (34,000 lb/in²) minimum  
**% Elongation:** 25% minimum  
**Condition:** Seamless, cold drawn, annealed (NBK) per DIN 2391C Part 2  
**Surface Finish:**  
- Tubes with inside diameter of 1.5 to 5 mm – outside and inside oiled  
- Tubes with 6 mm and greater inside diameter – outside and inside phosphate and oiled  
**Example of Part Number:** R25X2 where R indicates tube, 25 = outside diameter (mm), and 2 = wall thickness (mm)