

<b>Material Type:</b>	304L or 316L Stainless steel, as directed by customer purchase order
<b>Dimensions:</b>	<b>ASTM Tube Sizes:</b> <ul style="list-style-type: none"> <li>• 1/4" o.d. to 6" o.d. (6.35mm to 152.4mm)</li> </ul>
<b>Reference Documents:</b>	<b>ASME:</b> BPE 2019 <b>ASTM:</b> A 269, A 270
<b>Tube Lengths:</b>	<ul style="list-style-type: none"> <li>• 4-meter, (13.123 ft) nominal lengths</li> <li>• 6-meter, (19.685 ft) nominal lengths</li> </ul>
<b>Manufacturing Method &amp; Mechanical Properties:</b>	Seamless or welded, as directed by customer's purchase order Tensile Strength 70 ksi (483 MPa) minimum.
<b>Tolerances:</b>	<ul style="list-style-type: none"> <li>• <b>1/4" to 1" (6.35mm to 25.4mm):</b> ± .010" (± 0.254mm)</li> <li>• <b>1-1/2" to 2" (38.1mm to 50.4mm):</b> ± .016" (± 0.406mm)</li> <li>• <b>2-1/2" to 3" (63.5mm to 76.2mm):</b> ± .020" (± 0.508mm)</li> <li>• <b>4" (102mm):</b> ± .030" (± 0.762mm)</li> <li>• <b>6" (152.4mm):</b> ± .060" (± 1.52mm)</li> </ul>
<b>I.D. Surface Roughness:</b>	<ul style="list-style-type: none"> <li>• <b>SF1</b>, 20μ-inch (.51μ-meter) Ra max</li> <li>• <b>SF4</b>, 15μ-inch (.38μ-meter) Ra max, electropolished</li> </ul>
<b>Weld Ends:</b>	Square ends suitable for orbital welding
<b>Testing &amp; Inspection:</b>	<ul style="list-style-type: none"> <li>• Visual inspection</li> <li>• Surface roughness measurement</li> <li>• Helium-leak test</li> <li>• Dimensional inspection</li> </ul>
<b>Marking &amp; Traceability:</b>	Each component is marked with the following: Heat number or code that is traceable to the Material Test Report, Material alloy (SS304L or SS316L), "Valex", ASME Mark with BPE Designator, Surface code, size and configuration. <i>Note: Exceptions may apply where space is limited, information may be omitted in reverse order as presented above.</i>
<b>Labeling:</b>	Each component's bag is affixed with a label identifying the component's part number, date and Vallex lot number.
<b>Documentation:</b>	Test report including material chemistry and mechanical properties, and Certificate of Compliance to this specification and ASME BPE 2019.
<b>Packaging:</b>	All tube and fittings are purged with UHP nitrogen, capped, bagged and packaged for shipment in such a manner which prevents damage to product and primary-product packaging.