| Material Type: | 304L or 316L Stainless steel, as directed by customer purchase order |
| Dimensons: | ASTM Tube Sizes:  
• 1/4" o.d. to 6" o.d. (6.35mm to 152.4mm) |
| Reference Documents: | ASME: BPE 2019  
ASTM: A 269, A 270 |
| Tube Lengths: | • 4-meter, (13.123 ft) nominal lengths  
• 6-meter, (19.685 ft) nominal lengths |
| Manufacturing Method & Mechanical Properties: | Seamless or welded, as directed by customer’s purchase order  
Tensile Strength 70 ksi (483 MPa) minimum. |
| Tolerances: | • 1/4" to 1" (6.35mm to 25.4mm): ± .010" (± 0.254mm)  
• 1-1/2" to 2" (38.1mm to 50.4mm): ± .016" (± 0.406mm)  
• 2-1/2" to 3" (63.5mm to 76.2mm): ± .020" (± 0.508mm)  
• 4" (102mm): ± .030" (± 0.762mm)  
• 6" (152.4mm): ± .060" (± 1.52mm) |
| I.D. Surface Roughness: | • SF1, 20µ-inch (.51µ-meter) Ra max  
• SF4, 15µ-inch (.38µ-meter) Ra max, electropolished |
| Weld Ends: | Square ends suitable for orbital welding |
| Testing & Inspection: | • Visual inspection  
• Surface roughness measurement  
• Helium-leak test  
• Dimensional inspection |
| Marking & Traceability: | 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.  
*Note: Exceptions may apply where space is limited, information may be omitted in reverse order as presented above. |
| Labeling: | Each component’s bag is affixed with a label identifying the component’s part number, date and Valex lot number. |
| Documentation: | Test report including material chemistry and mechanical properties, and Certificate of Compliance to this specification and ASME BPE 2019. |
| Packaging: | 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. |