

Material Type:	304L or 316L Stainless steel, as directed by customer purchase order
Dimensions:	ASTM Tube Sizes: <ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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" (101.6mm): ± .030" (± 0.762mm) • 6" (152.4mm): ± .060" (± 1.52mm)
I.D. Surface Roughness:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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. <i>Note: Exceptions may apply where space is limited, information may be omitted in reverse order as presented above.</i>
Labeling:	Each component's bag is affixed with a label identifying the component's part number, date and Vallex 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.