

Material Type:	316L Stainless steel	
Dimensions:	ASTM Tube Sizes Tubing: <ul style="list-style-type: none"> • 1/8" to 6" Fittings: <ul style="list-style-type: none"> • 1/4" to 6" 	JIS Pipe Sizes Piping & Fittings: <ul style="list-style-type: none"> • 8A to 300A (13.8mm to 318.5mm)
Reference Documents:	ASTM: A 269, A 270, A 632, A 276, A 479 ASME: B31.3 ¹ JIS: G 3459	
Tube & Pipe Lengths:	Nominal Lengths: 20-foot, 4-meter, 6-meter	
Hardness:	60 to 90 Rb max.	
Valex Material Types:	ASTM: Single-melt, Double-melt (seamless or welded, depends on size) VOD/VAR, VIM/VAR, VAR	JIS: Single melt (seamless or welded, depends on size)
Tolerances:	In accordance with ASTM: A 269 & A 632, JIS: G 3459	
Interior Surface Electropolished:	I.D. Surface Roughness Options: <ul style="list-style-type: none"> • A5: 5 micro-inches Ra max. • A7: 7 micro-inches Ra max. • B0: 10 micro-inches Ra max. • C0: 10 micro-inches Ra 	
O.D. Surface:	Standard outside diameter finish (may exhibit minor surface imperfections) or superior outside diameter finish as directed by customer's purchase order.	
Weld Ends:	Tube: Square ends suitable for orbital welding Pipe: Square or bevel end options	
Testing & Inspection:	<ul style="list-style-type: none"> • Visual inspection • Surface roughness measurement • Helium-leak testing • Scanning Electron Microscopy (SEM) • Auger Electron Microscopy (AES) 	<ul style="list-style-type: none"> • Electron Spectroscopy for Chemical Analysis (ESCA or XPS) • Particle testing • Moisture testing
Marking & Traceability:	Each component is traceable to its producing mill and heat by an identification number etched within 24" (610mm) of one end.	
Labeling:	Each component's bag is affixed with a label identifying the component's part number, date and Vallex lot number.	
Documentation:	A Quality Inspection Certificate is furnished with each shipment. The report contains the following information: <ol style="list-style-type: none"> Material composition & applicable specification designation Nominal outside diameter size Chemical composition Statement of quality assurance testing Inspection Certificate type 3.1 per EN 10204:2004 Lot & heat identification for traceability 	
Packaging:	All components are purged with UHP nitrogen, capped, double-bagged and packaged for shipment in such a manner, which prevents damage to product and primary product packaging.	

¹ For detailed specifics regarding compliance, please consult factory.