

Stainless Steel (inc. High Performance) - 1.4404 / 316L

BSP 150LB Fittings

Properties

Stock		Chemical Properties	
Fitting Type	Size Range (in)	Element	Chemical Composition %
Equal socket (coupling)	1/4 - 2	Carbon (C)	0.0 - 0.03
90 degree elbows (female)	1/4 - 2	Chromium (Cr)	16.50 - 18.50
Half socket	1/4 - 1	Molybdenum (Mo)	2.0 - 2.5
Hexagon union	1/4 - 2	Silicon (Si)	0.0 - 1.0
Square head plug	1/8 - 2	Phosphorus (P)	0.0 - 0.05
Barrel nipples	1/8 - 2 1/2	Sulphur (S)	0.0 - 0.01
Hexagon head plug	1/8 - 2	Nickel (Ni)	10.0 - 13.0
Hexagon nipples	1/4 - 2	Manganese (Mn)	0.0 - 2.0
Round blank cap	1/4 - 2	Iron (Fe)	Balance
Weld nipples	1/4 - 2 1/2	Above properties are for 1.4404	
Hexagon back-nut	1/2	1.4404/316L also corresponds to the following designation 316S11	
Equal tee	1/4 - 2		
Ball valve	1/4 - 2		
Hexagon reducing bush	(1/4 - 1/8) to (1 1/2 - 1/2)		
Hexagon reducing nipples	(3/8 - 1/4) to (1 1/2 - 1/2)		
Reducing socket	(3/8 - 1/4) to (2 - 1 1/2)		
		Mechanical Properties	
		Property	Value
Properties below are for 1.4404 (316L) which also corresponds to 316S11			
		Proof Stress	220 min MPa
		Tensile Strength	520 - 680 MPa
		Elongation A50 mm	40% min
		Physical Properties	
		Property	Value
		Density	8.00 g/cm ³
		Melting Point	1400°C
		Thermal Expansion	15.9 x 10 ⁻⁶ /K
		Modulus of Elasticity	193 GPa
		Thermal Conductivity	16.3 W/m.K
		Electrical Resistivity	0.074 x 10 ⁻⁶ Ω.m
1.4404/316L also corresponds to the following designation 316S11			

Disclaimer

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