

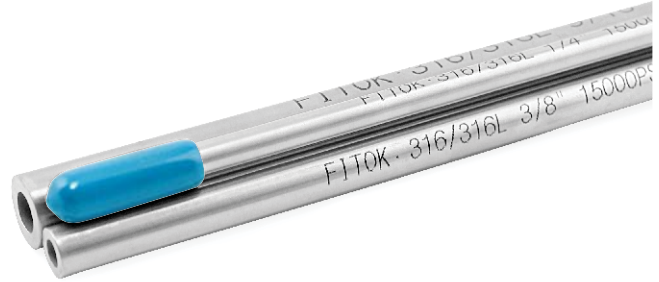
Medium and High Pressure Tubing

T15, T20D, T20M and T60 Series

T15 Series

Features

- ⦿ Material: 316/316L
- ⦿ Working pressure up to 15,000 psig (1034 bar)
- ⦿ Working temperature: -325°F to 800°F (-198°C to 427°C)
- ⦿ Annealed seamless or cold-drawn 1/8-hard seamless tubing
- ⦿ For use with FITOK 20D series (formerly DHL series) double-ferrule tube fittings
- ⦿ Marked with brand, material grade, specification, pressure, annealing code and heat number
- ⦿ Standard length: 20 ft and 6 m



Materials

UNS	Grade	FITOK Designator	Composition %							
			C	Mn	P	S	Si	Cr	Ni	Mo
S31600/S31603	316/316L	SS	≤0.035	≤2.00	≤0.045	≤0.03	≤1.00	16-18	10-14	2.0-3.0

Mechanical Properties

Cold-drawn 1/8-hard Seamless Tubing

UNS	Grade	Yield Strength ksi	Tensile Strength ksi	Elongation %	Hardness
S31600/S31603	316/316L	75 to 110	105 to 140	≥25	≤26 HRC

Annealed Seamless Tubing

UNS	Grade	Yield Strength ksi	Tensile Strength ksi	Elongation %	Hardness
S31600/S31603	316/316L	≥30	≥75	≥30	≤90 HRB

Dimensional Tolerance

Tube O.D. in.	O.D. Tolerance in.	Wall Thickness Tolerance %
1/8	+/-0.005	+/-10
1/4		
3/8		
1/2		
9/16		
3/4		

Working Pressure at Ambient Temperature Cold-drawn 1/8-hard Seamless Tubing

Tube O.D. in.	Wall Thickness in.	Working Pressure ^① psig (bar)
1/4	0.065	15,000 (1034)
3/8	0.083	
1/2	0.109	
9/16	0.125	
3/4	0.165	

① Working pressures are calculated from an S value of 35,000 psi (241 MPa) at -20 to 100°F (-28 to 38°C) for ASME B31.3.

Annealed Seamless Tubing

Tube O.D. in.	Wall Thickness in.	Working Pressure ^① psig (bar)
1/8	0.037	15,000 (1034)
1/4	0.083	15,000 (1034)
	0.065	10,300 (710)
3/8	0.118	15,000 (1034)
	0.095	10,000 (690)
1/2	0.156	15,000 (1034)
	0.134	11,200 (772)
9/16	0.188	15,000 (1034)
3/4	0.240	15,000 (1034)
	0.188	10,000 (690)

① Working pressures are calculated from an S value of 20,000 psi (138 MPa) at -20 to 100°F (-28 to 38°C) for ASME B31.3.

Elevated Temperature Factors

Temperature		Factor
°F	°C	
100	38	1.00
200	93	
300	149	
400	204	0.96
500	260	0.89
600	316	0.85
700	371	0.81
800	427	0.79

Ordering Information

Cold-drawn 1/8-hard Seamless Tubing

Tube O.D. in.	Wall Thickness in.	Ordering Number ^{①②}	
1/4	0.065	SS-T15-4-065-6M	SS-T15-4-065-20
3/8	0.083	SS-T15-6-083-6M	SS-T15-6-083-20
1/2	0.109	SS-T15-8-109-6M	SS-T15-8-109-20
9/16	0.125	SS-T15-9-125-6M	SS-T15-9-125-20
3/4	0.165	SS-T15-12-165-6M	SS-T15-12-165-20

① In the ordering number, "6M" designates tubing length of 6 meters; "20" designates tubing length of 20 feet.

② Customized shorter length tubing is available upon request.

Annealed Seamless Tubing

Tube O.D. in.	Wall Thickness in.	Ordering Number ^{①②}	
1/8	0.037	SS-T15-A-2-037-6M	SS-T15-A-2-037-20
1/4	0.083	SS-T15-A-4-083-6M	SS-T15-A-4-083-20
	0.065	SS-T15-A-4-065-6M	SS-T15-A-4-065-20
3/8	0.118	SS-T15-A-6-118-6M	SS-T15-A-6-118-20
	0.095	SS-T15-A-6-095-6M	SS-T15-A-6-095-20
1/2	0.156	SS-T15-A-8-156-6M	SS-T15-A-8-156-20
	0.134	SS-T15-A-8-134-6M	SS-T15-A-8-134-20
9/16	0.188	SS-T15-A-9-188-6M	SS-T15-A-9-188-20
3/4	0.240	SS-T15-A-12-240-6M	SS-T15-A-12-240-20
	0.188	SS-T15-A-12-188-6M	SS-T15-A-12-188-20

① In the ordering number, "6M" designates tubing length of 6 meters; "20" designates tubing length of 20 feet.

② Customized shorter length tubing is available upon request.