

T20M Series

Features

- Materials: 316/316L, enhanced-316/316L
- Working pressure up to 20,000 psig (1379 bar)
- Working temperature: -325°F to 800°F (-198°C to 427°C)
- Cold-drawn seamless tubing
- For use with FITOK 20M series medium pressure fittings
- Marked with brand, material grade, specification, pressure, and heat number
- Standard length: 40 in, 80 in, 10 ft, 20 ft, 1 m, 2 m, 3 m and 6 m, straight-length tubing and coned and threaded nipples in custom length are also available.



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
Enhanced-S31600/S31603	Enhanced- ^① 316/316L	SH	≤0.03					17-18	12-14	2.6-3.0

① Enhanced-316/316L complying with GB50516-2021 Technical Code for Hydrogen Fuelling Station is available, in which Nieq is not less than 28.5%. Contact FITOK Group for more information.

Dimensional Tolerance

Tube O.D. in.	O.D. Tolerance in.	Tube I.D. in.	I.D. Tolerance in.
1/4	-0.002/-0.007	0.109	0/-0.005
3/8	-0.005/-0.01	0.203	
9/16		0.312	
3/4		0.438	+/-0.005
1		0.562	
1 1/2		0.937	

Working Pressure at Ambient Temperature

Working pressures are calculated in accordance with ASME B31.3
Chapter IX High Pressure Piping.

Tube O.D. in.	Tube I.D. in.	Working Pressure psig (bar)
1/4	0.109	20,000 (1,379)
3/8	0.203	
9/16	0.312	
3/4	0.438	
1	0.562	
1 1/2	0.937	15,000 (1,034)

Pressure-Temperature Ratings

Working Pressure psig (bar)				
-423 to 100°F (-252 to 37.8°C)	200°F (93°C)	400°F (204°C)	600°F (316°C)	800°F (427°C)
20,000 (1379)	20,000 (1379)	19,000 (1310)	18,000 (1241)	16,800 (1158)
15,000 (1034)	15,000 (1034)	14,200 (979)	13,500 (931)	12,600 (869)

Ordering Information

Cold-Drawn Seamless Tubing

Tube O.D. in.	Tube I.D. in.	Ordering Number ^{①②}	
1/4	0.109	□□-T20M-4-6M	□□-T20M-4-20F
3/8	0.203	□□-T20M-6-6M	□□-T20M-6-20F
9/16	0.312	□□-T20M-9-6M	□□-T20M-9-20F
3/4	0.438	□□-T20M-12-6M	□□-T20M-12-20F
1	0.562	□□-T20M-16-6M	□□-T20M-16-20F
1 1/2	0.937	□□-T20M-24-6M	□□-T20M-24-20F

① In the ordering number, "6M" designator refers to 6 m tubing length and "20F" designator refers to 20 ft tubing length. Nipples in custom length available upon request.

② To order, add the material designator as prefix: SS for 316/316L and SH for enhanced-316/316L.