

T20M Series

Features

- ⦿ Material: 316/316L, enhanced-316/316L
- ⦿ Working pressure up to 20,000 psig (1379 bar)
- ⦿ Working temperature: -423°F to 1200°F (-252°C to 649°C)
- ⦿ Cold-drawn seamless tubing
- ⦿ For use with FITOK 20M series (formerly 20 series) medium pressure fittings
- ⦿ Marked with brand, material grade, specification, pressure, and heat number
- ⦿ Supplied in fractional sizes up to 20 ft and metric sizes up to 6 m. Nipples in customized length 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-316/316L ^①	SH	0.030					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 Ni_{eq} is not less than 28.5%. Leave a note for your requirements when placing order.

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		0.203	
9/16		0.312	
3/4		0.438	+/-0.005
1		0.562	

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)	19,250 (1327)	18,050 (1244)	16,800 (1158)

If tubing is used at temperatures above 800°F (427°C) or reused thereafter, working pressures for tubing in the following table shall apply.

Working Pressure psig (bar)					
-423 to 200°F (-252 to 93°C)	400°F (204°C)	600°F (316°C)	800°F (427°C)	1000°F (538°C)	1200°F (649°C)
8,050 (555)	7,400 (510)	6,800 (469)	6,300 (434)	6,200 (427)	2,900 (200)

Ordering Information

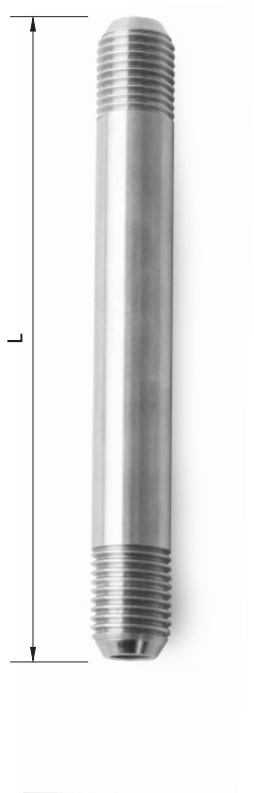
Cold-drawn Seamless Tubing

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

① In the ordering number, "6M" designates tubing length of 6 meters; "20" designates tubing length of 20 feet. Customized length up to 20ft/6m is available upon request.

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

Coned and Threaded Nipples



Tube O.D. in.	Tube I.D. in.	Length L ^① in. (mm)	Ordering Number ^②
1/4	0.109	3.00 (76.2)	□□-T20M-4CT-3
		4.00 (101.6)	□□-T20M-4CT-4
		6.00 (152.4)	□□-T20M-4CT-6
		8.00 (203.2)	□□-T20M-4CT-8
		10.0 (254.0)	□□-T20M-4CT-10
		12.0 (304.8)	□□-T20M-4CT-12
3/8	0.203	3.00 (76.2)	□□-T20M-6CT-3
		4.00 (101.6)	□□-T20M-6CT-4
		6.00 (152.4)	□□-T20M-6CT-6
		8.00 (203.2)	□□-T20M-6CT-8
		10.0 (254.0)	□□-T20M-6CT-10
		12.0 (304.8)	□□-T20M-6CT-12
9/16	0.312	4.00 (101.6)	□□-T20M-9CT-4
		6.00 (152.4)	□□-T20M-9CT-6
		8.00 (203.2)	□□-T20M-9CT-8
		10.0 (254.0)	□□-T20M-9CT-10
		12.00 (304.8)	□□-T20M-9CT-12
3/4	0.438	4.00 (101.6)	□□-T20M-12CT-4
		6.00 (152.4)	□□-T20M-12CT-6
		8.00 (203.2)	□□-T20M-12CT-8
		10.0 (254.0)	□□-T20M-12CT-10
		12.0 (304.8)	□□-T20M-12CT-12
1	0.562	6.00 (152.4)	□□-T20M-16CT-6
		8.00 (203.2)	□□-T20M-16CT-8
		10.0 (254.0)	□□-T20M-16CT-10
		12.0 (304.8)	□□-T20M-16CT-12

① Nipples in customized length available upon request.

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