Heat Trace Tubing

TST Series

Features

- ◎ Steam trace
- ◎ Materials: stainless steel or copper process tube and tracer tube, fibrous glass insulation, PVC jacket
- ◎ Sizes:
  Process tube: 3/8", 1/2" and 10 mm
  Tracer tube: 1/2", 6 mm and 8 mm
- ◎ Maintains process temperatures from 50°F to 355°F (10°C to 179°C)
- ◎ For use with FITOK 6 series tube fittings, 4:1 safety factor for tubing and connection part of fitting and tubing
- ◎ Jacket marked with brand, heat trace type, ordering number and heat number

Materials of Process Tube and Tracer Tube

UNS	Grade	ASTM Standard	FITOK Designator	Composition %					Mechanical Properties			
				C	Cr	Ni	Mo	Cu	Yield Strength MPa	Tensile Strength MPa	Elongation %	Hardness
S31600/ S31603	316/ 316L	A269	SS	≤0.035①	16-18	10-14	2.0-3.0	-	≥205	≥515	≥35	≤80HRB
C12200	-	B75	CU	-	-	-	-	99.9	≥62	≥205	-	-

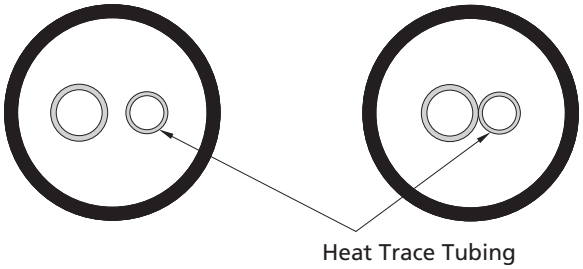
① The carbon content of tubing with outside diameter smaller than 1/2" or wall thickness smaller than 0.049" is allowed up to 0.04%.

PVC Jacket

Min. Tensile Strength	1530 psig (105 bar)
Min. Elongation	300%
Shore Hardness	80 HA
Max. Working Temperature	194°F (90°C)
Min. Installation Temperature	-31°F (-35°C)
Min. Working Temperature	-31°F (-35°C)
Resistance to Chloride	Yes
Max. Water Absorption	0.06%

Types

Light Heat Trace **Heavy Heat Trace**



Temperature Maintenance Range	
Light Heat Trace	Heavy Heat Trace
50°F to 200°F (10°C to 93°C)	200°F to 355°F (93°C to 179°C)

Technical Data

Fractional

Process Tube Tube O.D. x Wall Thickness, in.	Tracer Tube Tube O.D. x Wall Thickness, in.	Nominal Product O.D. in.	Min. Bend Radius in.	Standard Coil ① Length ft	Max. Coil Length ② ft
316/316L Process Tube and Tracer Tube					
3/8×0.035	3/8×0.035	1 1/2	8.00	400	1050
1/2×0.035 ③	3/8×0.035			300	1000
1/2×0.049	1/2×0.049	1 7/8	10.00		900
C12200 Process Tube and 316/316L Tracer Tube					
3/8×0.035	3/8×0.035	1 1/2	8.00	600	980
1/2×0.035 ③	3/8×0.035				
1/2×0.049	1/2×0.049	1 7/8	10.00		

① Minimum guaranteed length.
② Customized shorter length available subject to confirmation from FITOK.
③ Not recommended for use with 6 series tube fittings in gas service.

Metric

Process Tube Tube O.D. x Wall Thickness, mm	Tracer Tube Tube O.D. x Wall Thickness, mm	Nominal Product O.D. mm	Min. Bend Radius cm	Standard Coil ① Length m	Max. Coil Length ② m
316/316L Process Tube and Tracer Tube					
10×1	6×1	38	20.3	100	300
10×1	8×1				
C12200 Process Tube and 316/316L Tracer Tube					
10×1	6×1	38	20.3	120	300
10×1	8×1				

① Minimum guaranteed length.
② Customized shorter length available subject to confirmation from FITOK.

Working Pressure

Refer to the working pressure of TMP series tubing.

Ordering Information

Fractional

Please add the length unit "M" or "FT" after the basic ordering number to get a complete ordering number.

Process Tube	Tracer Tube	Basic Ordering Number	
Tube O.D. x Wall Thickness in.	Tube O.D. x Wall Thickness in.	Light Heat Trace	Heavy Heat Trace
316/316L Process Tube and Tracer Tube			
3/8×0.035	3/8×0.035	SS-TST-L-6035-SS6035-□	SS-TST-H-6035-SS6035-□
1/2×0.035	3/8×0.035	SS-TST-L-8035-SS6035-□	SS-TST-H-8035-SS6035-□
1/2×0.049	1/2×0.049	SS-TST-L-8049-SS8049-□	SS-TST-H-8049-SS8049-□
C12200 Process Tube and 316/316L Tracer Tube			
3/8×0.035	3/8×0.035	CU-TST-L-6035-SS6035-□	CU-TST-H-6035-SS6035-□
1/2×0.035	3/8×0.035	CU-TST-L-8035-SS6035-□	CU-TST-H-8035-SS6035-□
1/2×0.049	1/2×0.049	CU-TST-L-8049-SS8049-□	CU-TST-H-8049-SS8049-□

Metric

Process Tube	Tracer Tube	Ordering Number	
Tube O.D. x Wall Thickness mm	Tube O.D. x Wall Thickness mm	Light Heat Trace	Heavy Heat Trace
316/316L Process Tube and Tracer Tube			
10×1	6×1	SS-TST-L-10M1.0-SS6M1.0-M	SS-TST-H-10M1.0-SS6M1.0-M
10×1	8×1	SS-TST-L-10M1.0-SS8M1.0-M	SS-TST-H-10M1.0-SS8M1.0-M
C12200 Process Tube and 316/316L Tracer Tube			
10×1	6×1	CU-TST-L-10M1.0-SS6M1.0-M	CU-TST-H-10M1.0-SS6M1.0-M
10×1	8×1	CU-TST-L-10M1.0-SS8M1.0-M	CU-TST-H-10M1.0-SS8M1.0-M