

# 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	≤0.035 <sup>①</sup>	16-18	10-14	2.0-3.0	-	≥205	≥515	≥35	≤80HRB
C10200	-	B75	CU	-	-	-	-	99.95	≥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%.

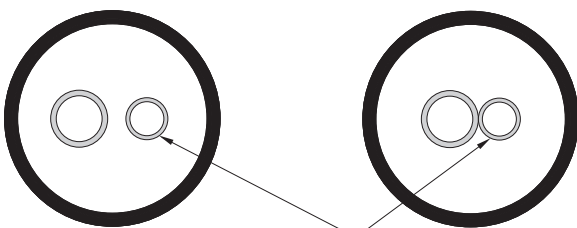
### PVC Jacket

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 <sup>①</sup> Length ft	Max. Coil Length <sup>②</sup> 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 <sup>③</sup>	3/8 × 0.035			300	1000
1/2 × 0.049	1/2 × 0.049				900
C10200 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 <sup>③</sup>	3/8 × 0.035				
1/2 × 0.049	1/2 × 0.049				

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 <sup>①</sup> Length m	Max. Coil Length <sup>②</sup> m
316/316L Process Tube and Tracer Tube					
10 × 1	6 × 1	38	20.3	100	300
10 × 1	8 × 1				
C10200 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.

316/316L Process Tube and Tracer Tube			
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
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-□
C10200 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

316/316L Process Tube and Tracer Tube			
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
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
C10200 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