

TubeTrace® Type SP/MP

“Heavy” Steam Traced Instrument Tubing

Product Specifications

Application . . .

Freeze Protection or Process Temperature Maintenance
Tube Temperature Range: 5°C to 205°C.

TubeTrace Type SP and MP with “heavy” steam trace is designed to provide freeze protection or temperature maintenance for metallic and nonmetallic tubing. TubeTrace Type SP and MP heavy steam trace is suitable for use with process analyzers, emissions analyzers, and impulse lines to pressure transmitters where steam or hot liquid is the preferred heating media.

TubeTrace Type SP and MP “heavy” steam trace is a metallic tracer tube in direct contact with the process tube. “Heavy” steam trace provides predictable heat output along the traced tube. The tracer tube and process tubes are cabled together thereby mechanically binding the tubes. This ensures consistent heat transfer and performance along the entire length by preventing separation or tube migration within the bundle.

Unlike field fabricated and insulated tubing, TubeTrace pre-engineered factory insulated tubing provides superior weather proofing and long term reliability.

Ratings/Specifications . . .

SP and MP “Heavy” Trace	Ratings
Available Tracer Tube Diameters	1/4", 3/8", 1/2", 6, 10, and 12 mm
Available Tracer Tube Materials	Copper and Stainless Steel
Typical Process Tube Temperature	5°C to 205°C
Maximum Steam Temperature	205°C/1690 kPa
Typical Temperature Difference Tracer Tube vs. Process Tube	Less Than 14°C ⁵



Construction . . .

- 1 Process Tubes
- 2 Tracer Tube
- 3 Non-hygroscopic Glass Fiber Insulation
- 4 Heat Reflective Tape
- 5 Polymer Outer Jacket

Product Features . . .

- Consistent Heat Transfer and Thermal Performance
- Superior Weather Proofing
- Long Coils Minimize Waste

How to Specify . . .

SP-6F16B1-ATP-1-M

Bundle Type

SP = Single Tube
MP = Multiple Tubes

Process Tube O.D.

2 = 1/4"
3 = 3/8"
4 = 1/2"
6 = 6 mm
10 = 10 mm
12 = 12 mm

Process Tube Material¹

A = 316L SS Welded
As = 316Ti SS Welded
B = B68 Copper
C = PFA Teflon²
D = Monel³
E = Titanium
F = 316L SS Seamless
Fs = 316Ti SS Seamless
G = 304 SS Welded
H = 304 SS Seamless
J = Hastaloy C276
K = Alloy 825
M = FEP Teflon
T = PTFE Teflon
X = Special

Number of Process Tube(s)

1
2

Tracer Tube O.D.

2 = 1/4"
3 = 3/8"
4 = 1/2"
6 = 6 mm
10 = 10 mm
12 = 12 mm

Tracer Tube Material

A = 316L SS Welded
As = 316 Ti SS Welded
B = B68 Copper
F = 316L SS Welded
Fs = 304 Ti SS Welded

Number of Tracer Tube

1

Bundle Jacket

ATP⁴
PE
TPU

M or I

Metric or Imperial Indication

Process Tube Wall Thickness

030 = .030"
032 = .032" (B68 Copper)
035 = .035"
040 = .040" (Plastic Only)
047 = .047" (Plastic Only)
049 = .049"
062 = .062" (Plastic Only)
065 = .065" (316/316L SS Seamless Only)

1 = 1 mm
1.5 = 1.5 mm

Notes . . .

1. Seamless tubing has a standard quality K3, other qualities are available on special request. Tubing meets the ASTM standards, tubing that meets DIN standards is available on special request.
2. Teflon is a trademark of E.I. du Pont de Nemours & Co., Inc.
3. Monel and Inconel are trademarks of Inco Alloys International, Inc.
4. Black ATP is standard, other jacket materials are available.
5. Please contact factory for performance data when using for critical temperature applications.



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