PRODUCT SPECIFICATIONS

TubeTrace® Type SI/MI

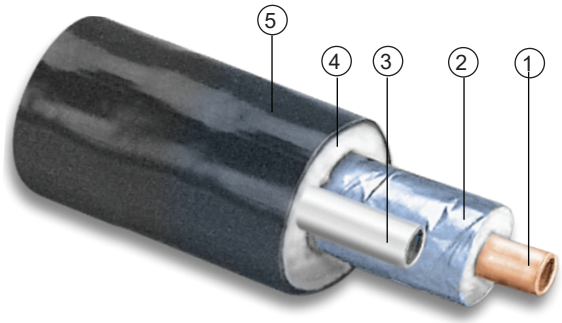
"LIGHT" STEAM TRACED INSTRUMENT TUBING

APPLICATION

Freeze protection or process temperature maintenance with a tube temperature range: 40°F (5°C) to 250°F (121°C). Designed to provide freeze protection or temperature maintenance for metallic and non-metallic tubing with "light" steam trace, TubeTrace Type SI/MI is suitable for use with process analyzers, emissions analyzers, and impulse lines to flow or pressure transmitters where steam or hot liquid is the preferred heating media.

TubeTrace Type SI/MI "light" steam trace is a metallic tracer tube that is isolated from direct contact with the process tube(s). The tracer tube and process tube(s) benefit from consistent heat transfer and performance along the entire length of the bundle.

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



CONSTRUCTION

1 Tracer tube [isolated from process tube(s)]
2 Heat reflective tape
3 Process tube(s)
4 Non-hygroscopic glass fiber insulation
5 Polymer outer jacket

RATINGS

SI and MI "Light" Trace	Ratings
Available Tracer Tube Diameters	1/4", 3/8" and 1/2"
Available Tracer Tube Materials	Copper and Stainless Steel
Typical Process Tube Temperature	40°F to 250°F (5°C to 121°C)
Maximum Steam Temperature *	400°F/235 psig (205°C/1690 kPa)
Typical Temperature Difference Tracer Tube vs. Process Tube	More Than 100°F (55°C)[4]

PRODUCT FEATURES

- Consistent heat transfer and thermal performance
- Superior weather proofing
- Long coils minimize waste

Note

* If bundle jacket is to remain below 140°F (60°C) in +80°F (27°C) ambient (in consideration of personnel burn risk) tube temperature must remain below 400°F (205°C). Alternative designs to keep jacket below 140°F (60°C) in higher ambients and/or with higher tube temperatures are available. Contact Thermon.

HOW TO SPECIFY

SI - 4F1-3B1 - ATP - 035 / 035

TubeTrace Type
SI = Single Tube
MI = Multiple Tubes

Process Tube(s) O.D.
1 = 1/8"
2 = 1/4"
3 = 3/8"
4 = 1/2"
5 = 5/8"
6 = 3/4"

Process Tube(s) Material
A = 316 SS Welded
C = PFA Teflon[1]
D = Monel[2]
E = Titanium
F = 316 SS Seamless
G = 304 SS Welded
H = 304 SS Seamless
J = Alloy C276
K = Alloy 825
L = Alloy 20
M = FEP Teflon
T = TFE Teflon
X = Special

Number of Process Tube(s)
1
2
3

Tracer Tube O.D.
2 = 1/4"
3 = 3/8"
4 = 1/2"

Tracer Tube Material
A = 316 SS Welded
B = 122 Copper
F = 316 SS Seamless

Number of Tracer Tube(s)
1

Bundle Jacket
ATP[3]
TPU

Process Tube(s) Wall Thickness
028 = .028" (SS Only)
035 = .035"
040 = .040" (Plastic Only)
047 = .047" (Plastic Only)
049 = .049"
062 = .062" (Plastic Only)
065 = .065"
083 = .083" (SS Only)

Tracer Tube(s) Wall Thickness
032 = .032"
035 = .035"
049 = .049"
065 = .065"

Notes . . .

1. Teflon is a trademark of E. I. duPont de Nemours Co., Inc.
2. Monel is a trademark of Inco Alloys International, Inc.
3. Black ATP is standard: other jacket materials are available.
4. Please contact factory for performance data when using for critical temperature applications.

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