PRODUCT SPECIFICATIONS

SafeTrace® DLS STEAM TRACER

APPLICATION

SafeTrace DLS-IT is a metallic tracer tube covered with composite materials[1] that lower thermal conductance to reduce heat transfer. SafeTrace provides a predictable heat output along a traced pipe to prevent hot spots and overheating. It replaces bare metallic tracers that often waste energy and stress pipe works by raising pipe temperatures much higher than desired.

SafeTrace DLS-IT tracers utilize a safety yellow identification jacket[2] to signify materials potentially dangerous, such as steam per ASME/ANSI A13.1-1996. All SafeTrace IT tracers also comply with ASTM Std C-1055, which requires that human skin temperature be less than 136.4°F (58°C) when in contact with a hot surface for five seconds.[3]

SafeTrace DLS-IT is supplied in long length coils and may be run continuously from the steam supply manifold, along the pipe and over to the condensate return manifold.

SPECIFICATIONS/RATINGS

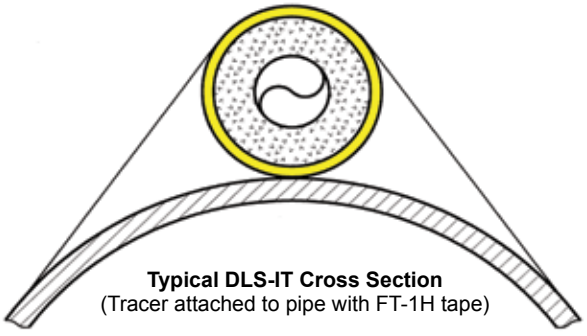
Available tube diameters .....3/8” and 10 mm
Nominal O.D. ..... 1” (25 mm)
Available tube materials .....copper & stainless steel
Typical pipe temp. range ..... 40°F to 130°F (5°C to 54°C)
Max. exposure temperature .....420°F (215°C)
Min. installation temperature ..... -40°F (-40°C)
Max. recommended steam pressure.....250 psig (17 bar)
Typical max. jacket temperature..... <136.4°F (58°C)[3]

BENEFITS

- Significantly reduces risk of burns
- Saves up to 50% of steam consumption compared to bare metal tube
- Predictable heat transfer—no hot spots or overheating
- Faster installation times—can be run continuously from the steam supply to the condensate collection system
- Longer circuit lengths—fewer steam traps
- Simple tape-on installation—not steel banding
- Quick delivery
- Free design assistance

CONSTRUCTION

1 Copper or stainless steel tube
2 Thermal retardant
3 Heat reflective tape
4 Safety yellow polymer jacket



Typical DLS-IT Cross Section
(Tracer attached to pipe with FT-1H tape)

Notes

1. U.S. Patent No. 6,905,566 B1; Foreign Patents pending.
2. Thermon does not purport to address all safety issues, if any, associated with the use of Thermon products when handling steam or other potentially dangerous materials. It is the responsibility of the user to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.
3. Based on operating at maximum recommended steam pressure. Temperature derived in accordance with ASTM Std C-1055 and ASTM Std C-1057 (skin temperature after five-second contact).

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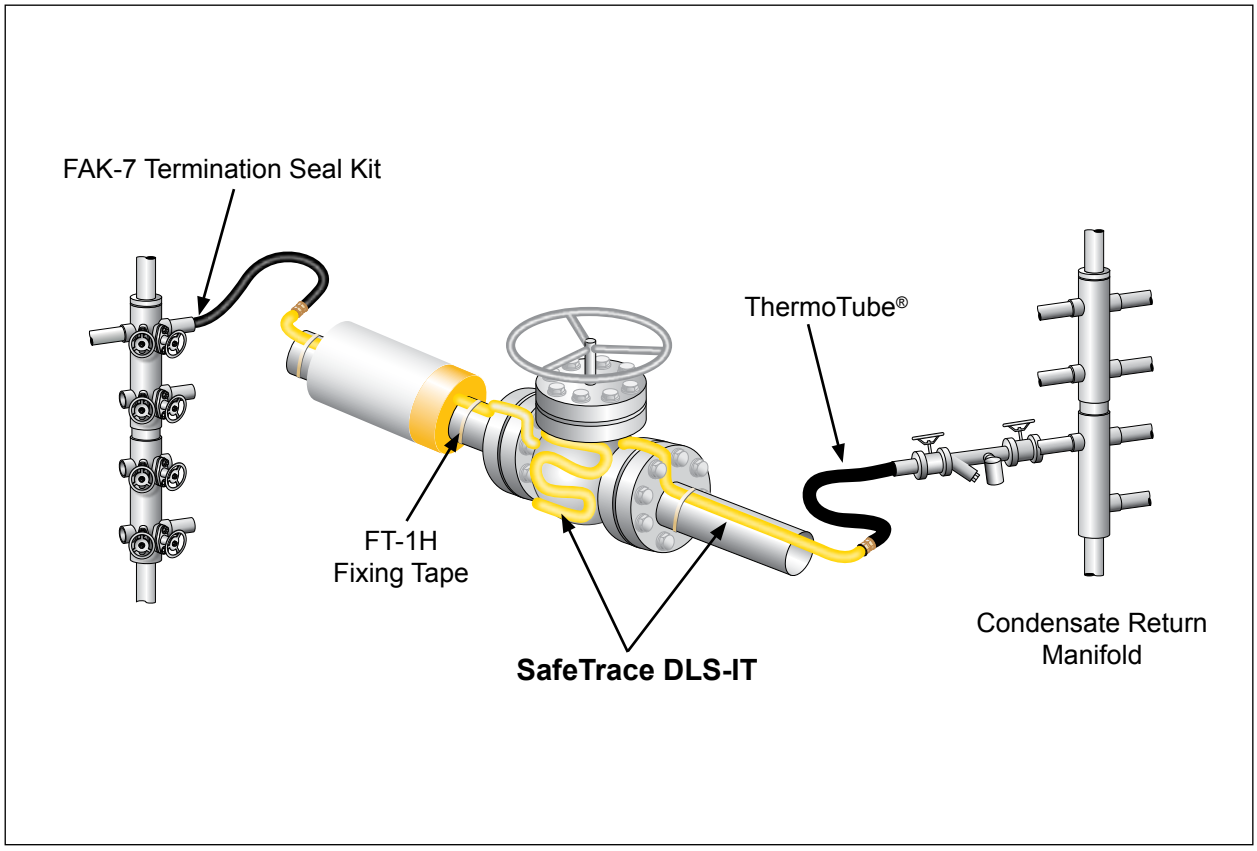
PRODUCT SPECIFICATIONS

SafeTrace® DLS STEAM TRACER

TYPICAL STEAM TRACING SYSTEM



PRODUCT CONFIGURATIONS

Catalog Number	Tube Material[1]	Tube Dia. (O.D.)	Wall Thickness[2]
DLS-IT-3B32	Copper	3/8"	0.032"
DLS-IT-3A35	SS Welded	3/8"	0.035"
DLS-IT-3F35	SS Seamless	3/8"	0.035"
DLS-IT-10B1	Copper	10 mm	1 mm
DLS-IT-10A1	SS Welded	10 mm	1 mm
DLS-IT-10F1	SS Seamless	10 mm	1 mm

Notes

1. Copper tubing meets ASTM Std B68-B75. Stainless steel tubing meets ASTM Std A269.
2. All tracer tubes are available in 0.049" wall thickness; contact Thermon.

BASIC ACCESSORIES

FT-1H fixing tape for circumferential banding of SafeTrace tracer to piping every 12" (300 mm) or as required by code or specification. Tape is 1/2" (13 mm) wide x 108' (33 m) long.

Product Rating
Max. Exposure Temp.....500°F (260°C)
Min. Installation Temp..... -40°F (-40°C)

FAK-7 each kit contains a roll of self-vulcanizing silicone rubber tape and RTV sealant. The kit contains sufficient materials to waterproof approximately six terminations. No heat gun or special tools are needed for installation.

Product Rating
Max. Exposure Temp..... 400°F (204°C)
Min. Application Temp.....-64°F (-54°C)