

Your Local Swagelok Resource for Optimum Marcellus and Utica Productivity and Profitability

MAXIMIZING
Worker and Site Safety

MINIMIZING
Fugitive Emissions

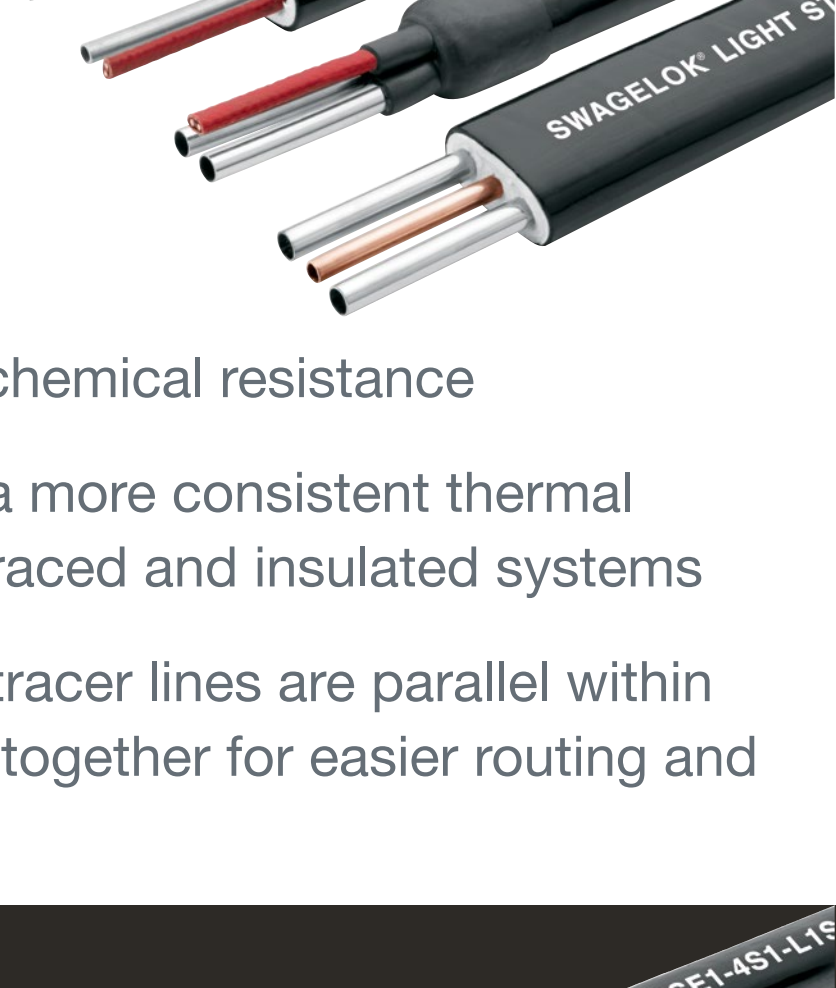
MASTERING
Application Challenges

Beat the Winter Blues with **Leak-Tight Products & Unparalleled Technical Support From Your Brand in Blue**

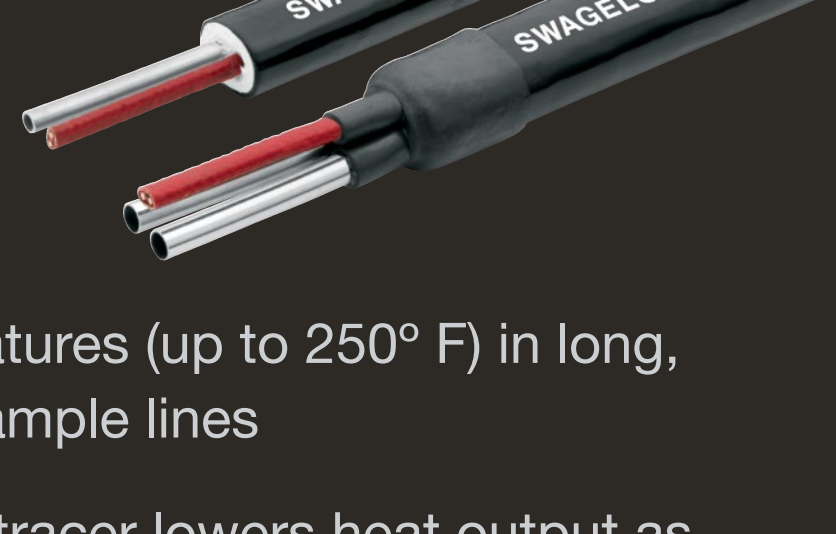


Swagelok Electric-Traced and Steam-Traced Pre-Insulated Tubing Bundles ensure process fluid freeze protection and temperature maintenance in numerous instrumentation applications, including impulse, process, and sampling lines.

- Available in an array of configurations with multiple process tubes and electric or steam tracers
- Insulated with non-wicking, fibrous glass insulation; covered with a PVC or urethane jacket for exceptional abrasion and chemical resistance
- For faster installation and a more consistent thermal performance versus field traced and insulated systems
- Because the process and tracer lines are parallel within the bundle, all tubes bend together for easier routing and field connections

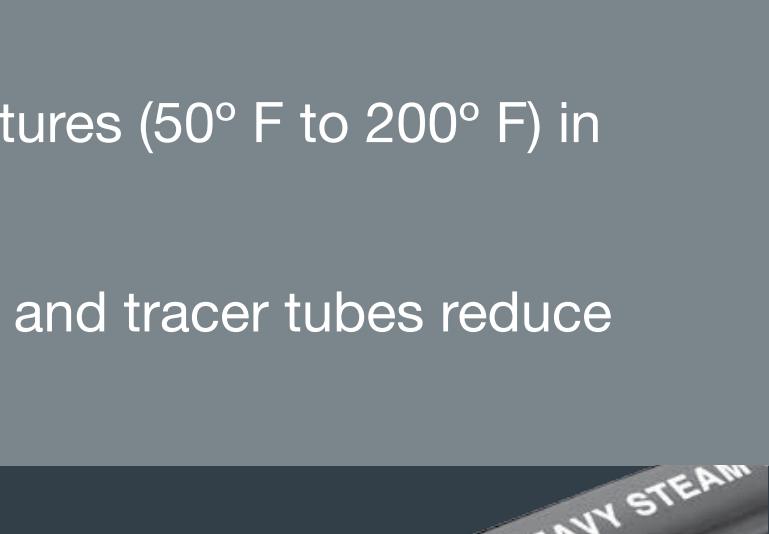


ELECTRIC-TRACED BUNDLE



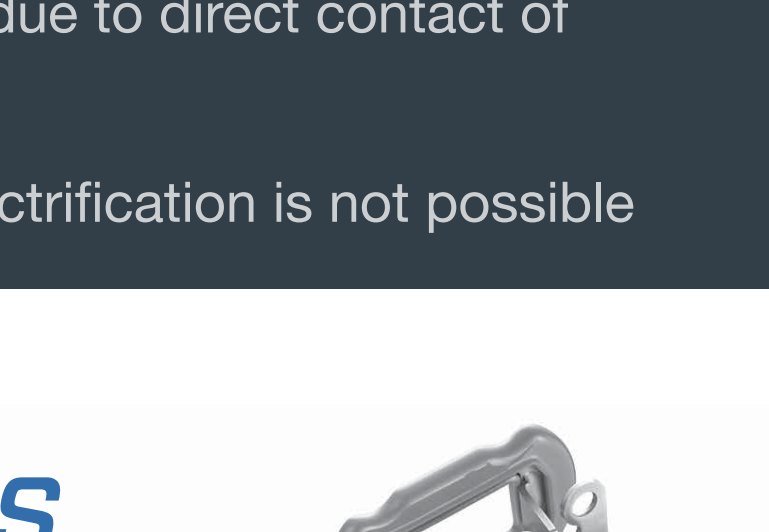
- Maintains uniform temperatures (up to 250° F) in long, continuous impulse and sample lines
- Self-regulating Raychem® tracer lowers heat output as bundle gets warmer
- Tinned, copper braided shield

LIGHT STEAM-TRACED BUNDLE



- Superior freeze protection of impulse and analyzer transport lines
- Ideal for maintaining temperatures (50° F to 200° F) in small-diameter process lines
- Individually wrapped process and tracer tubes reduce heat transfer

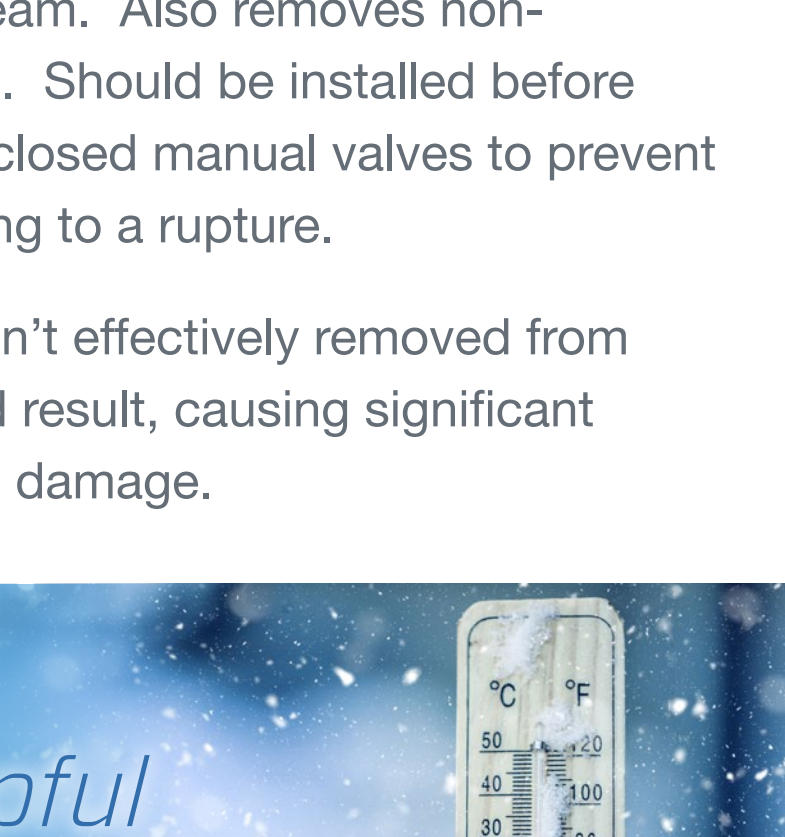
HEAVY STEAM-TRACED BUNDLE



- Yields optimal high process temperatures (200° F to 400° F) and/or viscosity control
- Maximum high heat transfer due to direct contact of process and tracer tubes
- Effective alternative when electrification is not possible

Steam Traps

Strongly recommended for every steam-traced line in your system.



Should be located at every 100' or so of heated line – or if you have turns or elevation changes in your main line.

Separates condensate from steam. Also removes non-condensable gaseous mixtures. Should be installed before any pressure-relief, control, or closed manual valves to prevent seat erosion and a freeze leading to a rupture.

REMEMBER: If condensate isn't effectively removed from your lines, water hammer could result, causing significant operator risk and/or equipment damage.

A Few More Helpful Winterization Hints



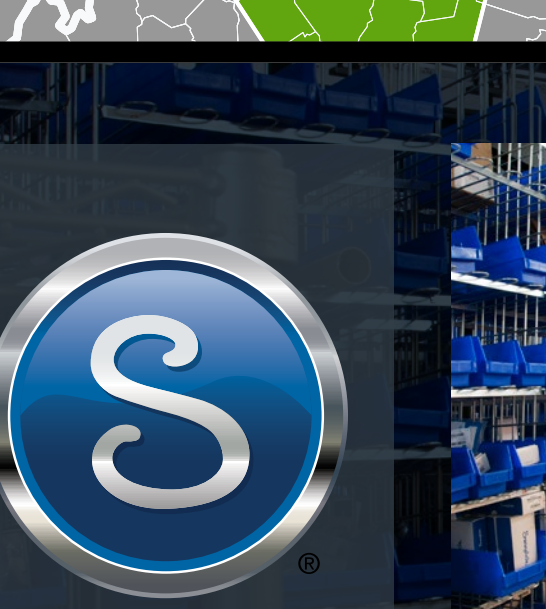
- **Conduct an Energy-Loss Evaluation** to determine current line leakage and to prevent fugitive emissions that could cause system failure in extreme cold
- **Employ Grab Sampling** - Safely, efficiently, and effectively capture gas and liquid samples for transportation to a lab for analysis; whether you require closed-loop sampling into pressure-rated cylinders OR want to collect liquids and non-volatile process fluid into glass bottles, our options are safe, intuitive, easy to maintain, and available as a single part number
- **Construct heated housing**, even for temporary use, to protect critical outside equipment

Stay SAFE. Stay PRODUCTIVE. Stay PROFITABLE.

No matter how challenging your application or operating conditions!

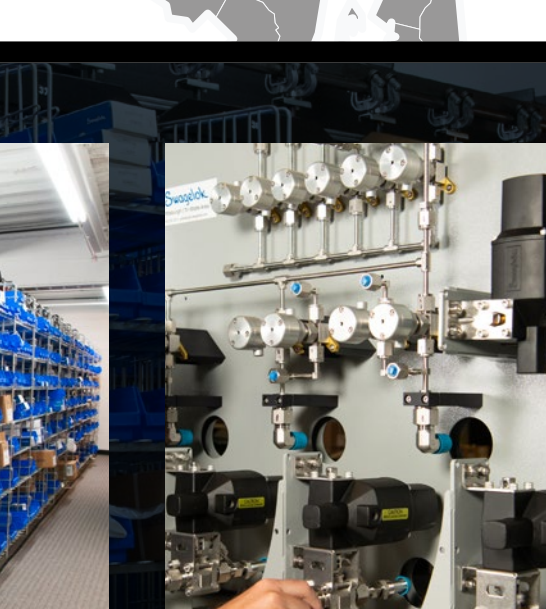
For complete details on trusted and proven Swagelok winterization tips and techniques, contact:

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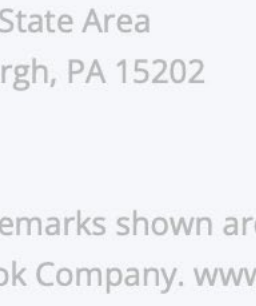
tim.davis@swagelok.com



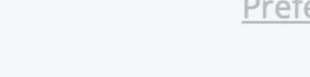
The Brand. The Inventory. The Expertise.

WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER

- Industry-Best Componentry
- Masterful Custom Fabrication
- Expert Safety Training
- Extensive Energy Evaluations
- Unparalleled Application Knowledge
- Comprehensive Hose Advisories
- Proven Inventory Management Support
- Genuine Swagelok Tool Rentals



WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:



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