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CSI HotTips

NEWS ABOUT THE PRODUCTS AND SERVICES OF CONTROLS SOUTHEAST, INC.

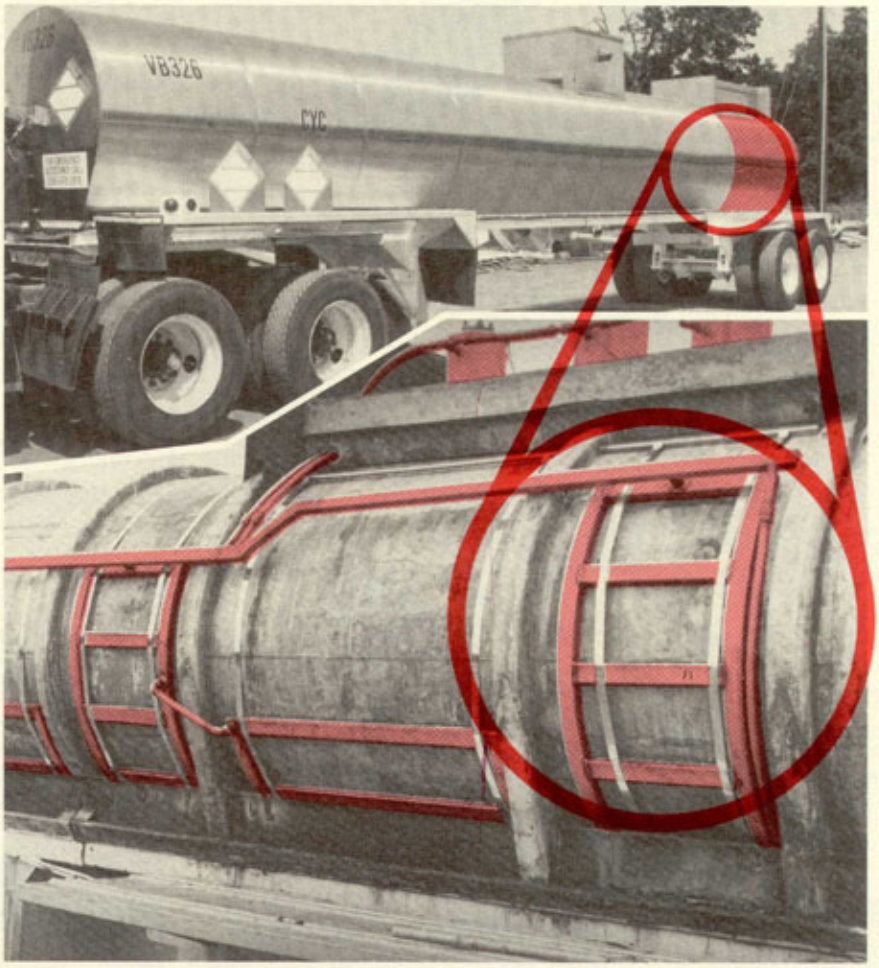
18-Wheeler Gets ControTrace

Molten chemical products shipped in insulated, over-the-road tankers often arrive at the customer's plant not-so-hot. In fact, a 24-hour delay on the road can translate to prolonged and difficult offloading, if effective methods for heating the tank are not available.

Older tankers are particularly vulnerable to troublesome offloading due to original heating equipment that succumbs to the rigors of heavy usage.

Recently, CSI retrofitted an older tanker with ControTrace panels on the tank surface and ControHeat jackets on associated valving. The clamp-on heating system was designed for 150 psig steam, to heat and maintain product in the tank at 350 F.

Preliminary reports from the owner are very favorable for this first-of-a-kind CSI clamp-on heating system. As it continues to perform as well during the winter months as it has on maiden runs, we look for the CSI clamp-on heating system to start rolling throughout the chemical industry on critical transport applications.



ControTrace panels on chemical transport tanker provide even heat distribution for molten products, assuring smooth, uneventful offloading. Heavy-duty construction of the clamp-on panels is expected to significantly reduce maintenance costs.

Stainless steel ControTrace heating panels were selected for this application because the heat input could be spread evenly over the tank surface. Robust construction was another selection criteria which

See WHEELS, next page

the ControTrace satisfied. With a wall thickness of .120 inches, the elements easily handle the erosive effects of frequent steam heat cycles and high condensate loading. ControHeat jackets on standard off-the-shelf valving provides quick heat-up of block valves used to start and stop offloading.

CSI designed and installed this new clamp-on heating system on the tanker. Carolina Tank, Inc., Spartanburg, SC, made the tanker look like new with new insulation, new stainless lagging, and a sparkling white paint job.

How To Foil Problems With Thermal Cement

ControHeat Thermal Cement, Grade 1, is an outstanding heat transfer agent. We recommend that you use it to coat base components when installing ControHeat jackets.

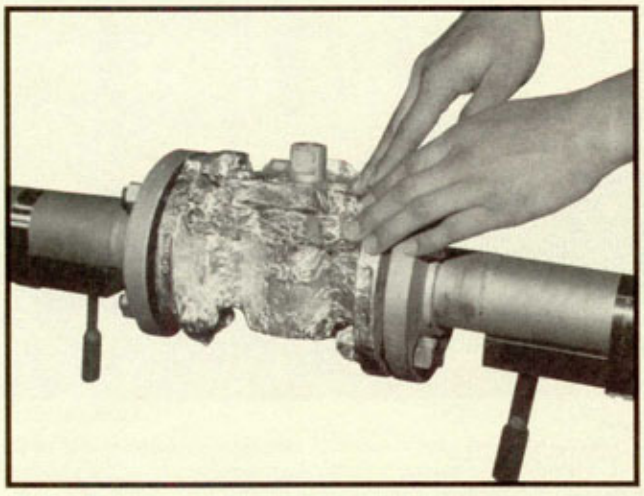
The reason it should be used whenever practical is simple: It doubles the rate of heat input from the jacket to the valve, pump or meter.

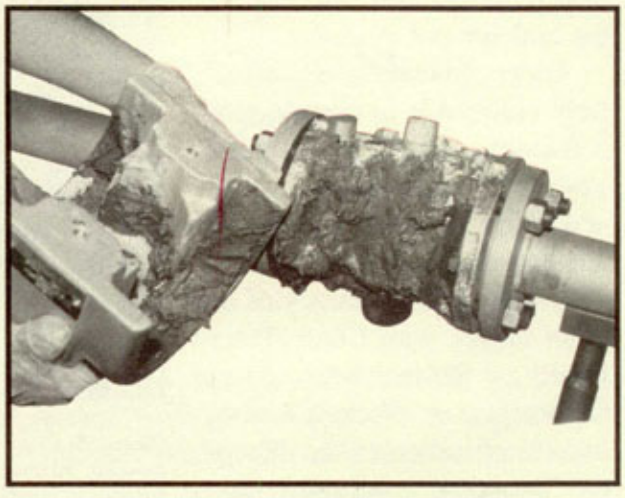
There's only one minor problem. The material is a goopy concoction that, when it dries, sticks like crazy to the base component... Which is why most maintenance people have few kind words to say about this marvelous conveyor of thermal energy.

When a valve is pulled from the line for repair, it takes extra time and energy to chip away dried thermal cement from the body before repairs can start.

If you're a user of Contro-Heat jackets who gets an earful from your maintenance crew about that *black goop,* here's a suggestion that may give you some relief.

Use some aluminum foil. It's worth a try...

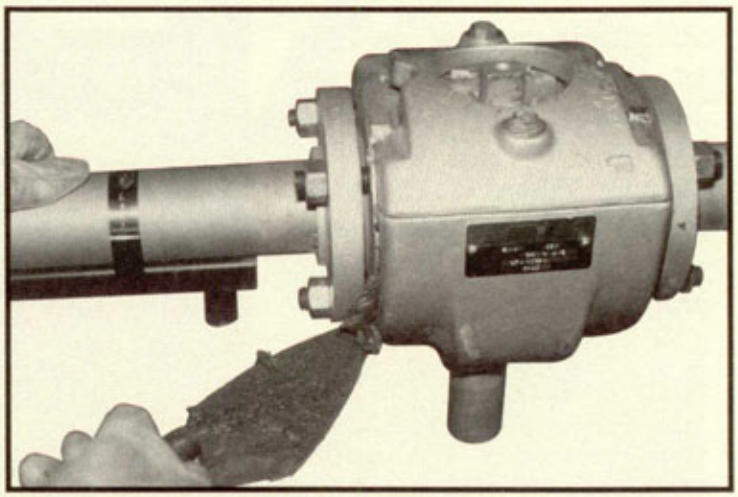




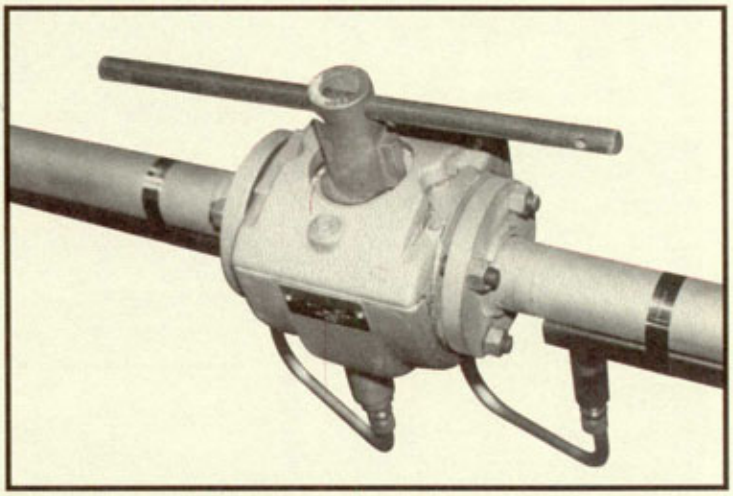
1. Press the foil (from the grocery store) onto the surface of the component. Be sure the foil covers the studs and nuts on back of flanges.

2. Spread heat transfer cement over the foil and the inside surface of the jacket.

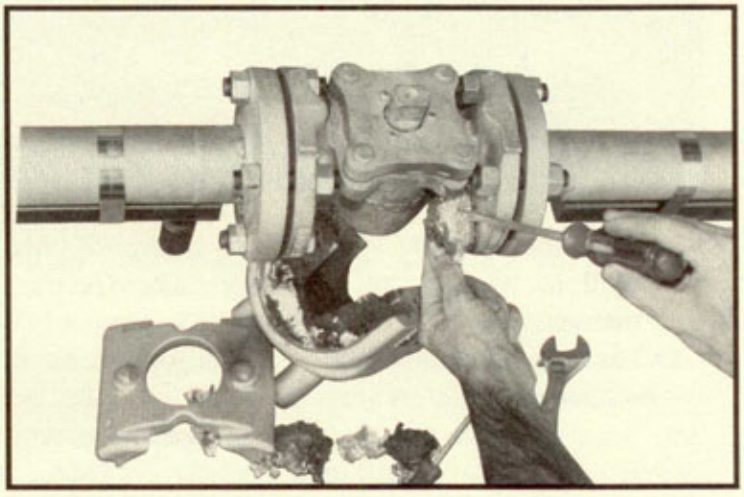
3. Put the jacket on the component. Trim the foil and clean up excess cement with wet rags.



4. Allow 48 hours for the cement to dry before you turn on the steam. You can accelerate drying time by briefly turning *on* and *off* the steam. Be sure to keep the jacket below 212 F until the cement dries. If the cement temperature goes above 212 F before it dries, steam bubbles form, causing the cement to ooze out and reduce the thermal efficiency of the jacket.



5. When it's time to repair the base component, remove the jacket. Use a hard rubber mallet to loosen it. Cement that adheres to the foil is easily removed. There's no need to remove the cement on the jacket. Just add a thin coat of fresh cement over the old before repeating these instructions.



The CSI Clamp-On Heating System -- WHAT IT IS !

Recently, a customer asked one of our most experienced salesmen, "Now, just what exactly is this CSI Clamp-On Heating System?" The salesman was momentarily speechless because he was sure that everyone knew about the CSI Clamp-On Heating System.

Shortly thereafter our Suggestion Box was stuffed with about 50 messages, all identical: "Make sure our customers know what we mean when we say, 'CSI Clamp-On Heating System.' "

So, okay:

The CSI Clamp-On Heating System consists of two (2) clamp-on products:

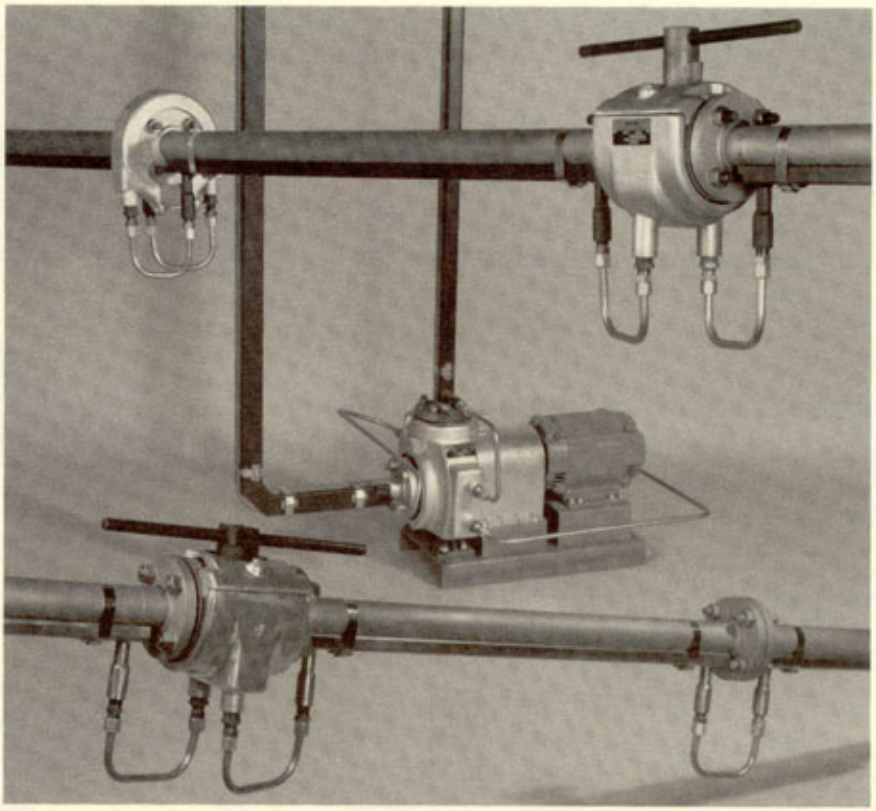
1. ControHeat jackets to heat valves, pumps and meters.

2. ControTrace elements to heat piping, storage tanks and vessels.

Depending on the size and scope of a particular job, two key options offered with the system include design and fabrication of associated piping, and installation of the system by CSI personnel.

That's it. The benefits are simple, too.

- Melt-out capacity.
- Uniform temperature maintenance.
- No cross contamination. ***...Ever.***



In the CSI Clamp-On Heating System, ControHeat jackets heat valves, pumps and meters while ControTrace elements heat piping, tanks and vessels.

Come To The Chem Show (Booth 1743)

Every other year at CSI, November is a hectic month of preparation for THE Show. It's no different in 1993. Sales samples with paint not quite dry get put in shipping crates that *must go today* if the *show must go on.*

This year we are adding a new wrinkle to our exhibit -- a special drawing for Hot Tips readers visiting the Show. To be eligible to win a surprise prize, write your name, address and phone number somewhere on this issue of HotTips and bring it by our Booth, #1743. Drop it in the box marked "Hot Tips ."

See you at the Show, December 6, 7, 8 and 9.

Thanks,

Fred Stubblefield, Jr.
President