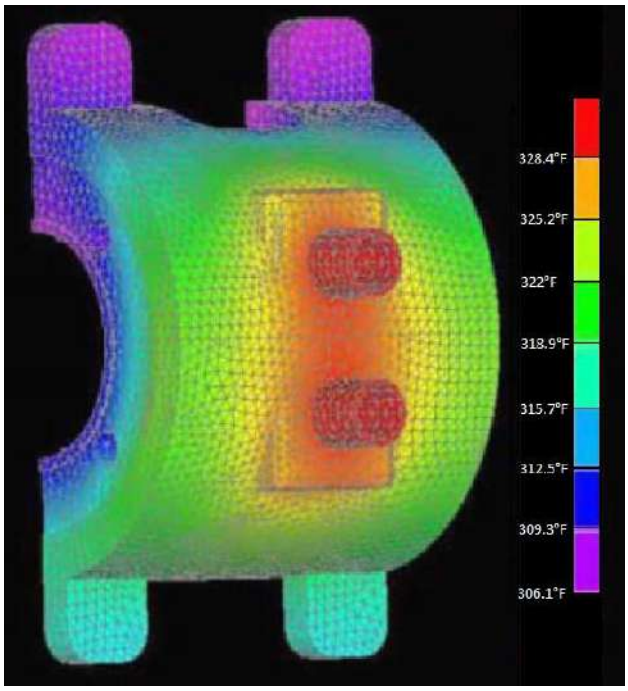
ControHeat® Steam/Fluid Jackets

Engineered Thermal Solutions

Since its introduction over 40 years ago, CSI's ControHeat® jacket has been the preferred solution for heating valves, pumps, meters, fittings, flanges, and many other components. Mounting directly to off-the-shelf line-size equipment, ControHeat® jackets ensure uniform heat transfer to process components for the purposes of thermal maintenance, heat-up/melt-out, or cooling.

Benefits

- **Reduces Long Lead Times:** Eliminates long lead time for fabricated jackets and field guess work when using tube tracing.
- **Cost Effective:** Most economical option when considering total installed lifetime costs and higher cost alternatives.
- **Complete Heating:** Provides evenly distributed heating across entire component.
- **Easy to Install and Maintain:** Eliminates need for special flanges and potential component damage from welding. Quick and easy removal for access to process component compared to alternatives.
- **Reduced Operational Risk:** Removes possibility of cross contamination (process ↔ heating media)



Standard Features

- ControHeat® jacket body is cast from copper-free aluminum (ASTM B179 Grade A 356).
- Pressure containing insert fabricated from carbon steel (ASME rated SA-178 Grade A Boiler Tube). S/S optional.
- ControHeat® jackets are cast to "Fit Like a Glove" for specific process components.
- Pressure and temperature ratings up to 600psig @ 750°F.
- Thousands of ControHeat® patterns already in CSI inventory.
- Digital component scanning available to simplify logistics of creating ControHeat® pattern, when required.
- Optional Accessories Include ControCover Insulation Blankets and Flexible Pre-Insulated Jump-Over Hoses.

704.644.5000

AMETEK® THERMAL PROCESS MANAGEMENT

CSI

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www.csiheat.com

ControHeat® Steam/Fluid Jackets

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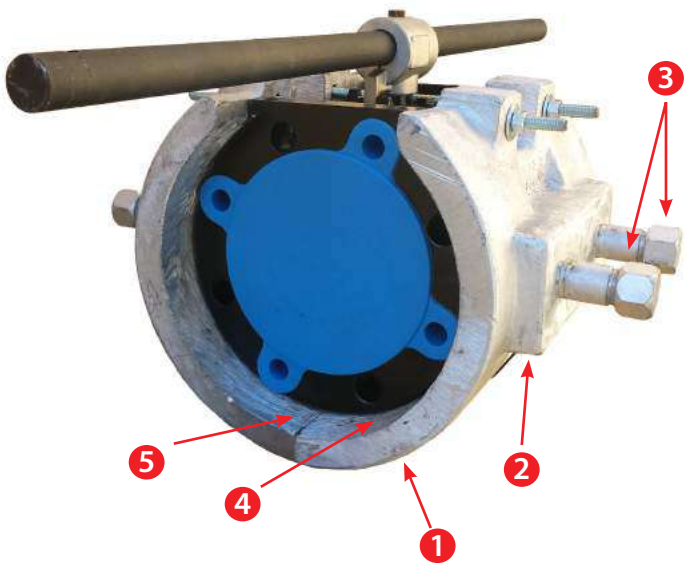
Standard Design

1. **Aluminum Heating Body**
2. **Steel Pressure Insert**
3. **Heating Medium Inlet/Outlet**
4. **Heat Transfer Compound (HTC - not shown)**
5. **Adjacent Flange Heating (optional)**



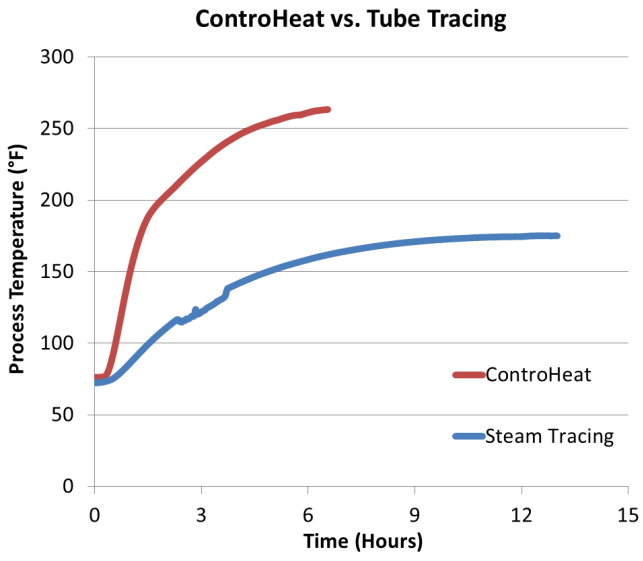
Design Application

- **Pumps** (Diaphragm, Centrifugal Gear, Piston, and others)
- **Valves** (Ball, Gate, Check, Plug, Globe, Safety, Butterfly)
- **Meters** (Mass, Coriolis, Venturi, Vortex, Turbine, and others)
- **Joints** (Ball, Swivel, Expansion, and others)
- **Other** (Nozzles, Vents, Fittings, Flanges)

Ordering Considerations

- Component size and flange rating (when applicable)
- Component manufacturer & model number
- Heating medium (steam, hot oil, water glycol, etc.)
- Heating medium connection (threaded, flanged, etc.)
- Service (sulfur, asphalt, polymer, food, pharm, etc.)
- Pressure / Temperature rating for jacket

Performance Comparison



Heat up test of 8" gate valve with heavy weight oil.

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