

TOTAL HEATING SOLUTIONS

Optimizing system performance, cost, & infrastructure

CSI can provide both the heating system **AND** the steam circuit supply and return components for a **Total Heating Solution**.

BENEFITS

- ◆ **Optimized system performance:** Ensures all hardware is technically sufficient; ensures circuits do not exceed maximum distance
- ◆ **Optimized procurement process:** Eliminates coordination between providers of engineered heating system and steam infrastructure components
- ◆ **Optimized total life costs:** Minimizes quantity of field-installed components; minimizes long-term maintenance



AMETEK®



STEAM SUB-SYSTEM

- ◆ Design and performance optimization of sub-system infrastructure
- ◆ Steam supply manifolds
- ◆ Condensate return manifolds
- ◆ Steam traps and strainers
- ◆ Manifold valves
- ◆ Pre-insulated tubing:
 - ◇ Red supply, 3/4" X .065" 316SS
 - ◇ Black return, 1/2" X .035" 316SS
- ◆ Tubing Fittings

PROCESS-HEATING SYSTEM

- ◆ Design expertise to ensure proper routing, thermal analyses to determine heating element coverage, & optimized circuitry
- ◆ ControTrace® heat tracing to heat piping, storage tanks, and pressure vessels
- ◆ ControHeat® cast aluminum jacketing to heat valves, instruments, and other piping components
- ◆ Tube tracing or enhanced tube tracing for low-criticality lines and components

CSI's **Total Heating Solutions** package optimizes system performance, streamlines the procurement process, and minimizes capital and operating expense by optimizing infrastructure.

CONTROLS SOUTHEAST, INC.
Engineered Thermal Solutions

To learn more, call or email us today!
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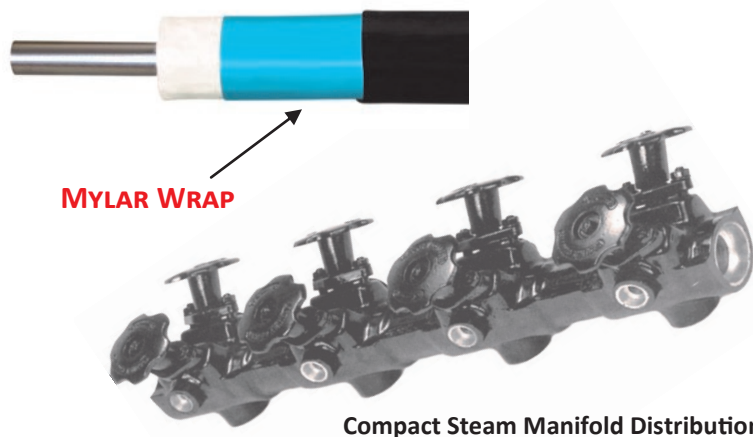
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CSI CIRCUITRY SUB-SYSTEM COMPONENTS

SUPPLY AND RETURN TUBING

- ◆ **Tubing and Insulation are Protected:** CSI provides TPU coated pre-insulated tubing – contains no chlorides or other halogens (may contribute to S/S corrosion stress cracking of tubing or UV damage to jacket).
- ◆ **Cold Weather Installation:** Acceptable to -40°F
- ◆ **No Gaps Required Between Tubes:** Foil faced mylar wrap keeps jacket from overheating in side-by-side routing scenarios.
- ◆ **Ease of Install:** Color-coded supply and return.



SUPPLY AND RETURN MANIFOLDS

- ◆ **Compact Integrated Design:** Saves space, fewer potential leak points, faster installation.
- ◆ **Uses Piston Valves:** Unlike gate or globe valves, piston valves are self-cleaning and have an inherently erosion-resistant seating surface configuration - and no exposed rotating shaft (a potential failure point).
- ◆ **3 Year No-Leak Guarantee**



INTEGRAL STEAM TRAP STATION

- ◆ **Saves Space:** Station contains isolation valves, strainer, trap, and test valve in 67% less space than field fabricated trap stations.
- ◆ **Less Field Welding:** Only 2 field install points – fewer potential leak points and faster installation/maintenance.
- ◆ **5 Year No-Leak Guarantee:** Longest in the industry! Less maintenance and spare parts required.

