

CONTRAC[®]



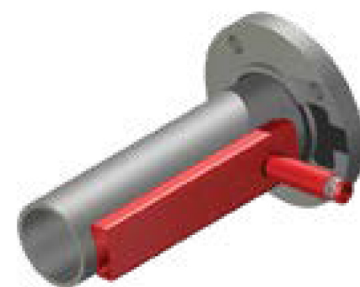
INNOVATIVE HEATING FOR PIPING



At CSI, we pride ourselves on helping clients find the best heating solution for their application. For over 40+ years, CSI has been supplying ControTrace® heating systems to solve critical heating applications.

CONTROTRACE®

ControTrace® bolt-on heating elements are the preferred steam tracing solutions for heating pipe, tanks, and vessels since 1980. It is a cost-effective alternative to fully jacketed piping and, in comparison to tube tracing, provides higher heating capacities and reliability. ControTrace heating elements also prevent cross-contamination between the heating medium and the process. Today, over five hundred miles of ControTrace heat tracing is in service in plants and refineries around the globe.



WHY CSI CONTROTRACE?

MAXIMIZE PROCESS UPTIME

- External heating systems eliminate potential product contamination
- Robust heating elements are 2-3x thicker than typical tracing for extended operational life (SA-178 Grade A boiler tube pressure rated per ASME Section VIII, Div.1)
- Stainless Steel elements available for aggressive environments

INCREASE OPERATIONAL EFFICIENCY

- Improved conductive heat transfer by contouring elements to piping OD
- Engineered thermal performance with even heat distribution and the CSI thermal guarantee
- Optimized circuit lengths reduce infrastructure
- Higher uptime, lower maintenance, and predictable performance reduces operation cost



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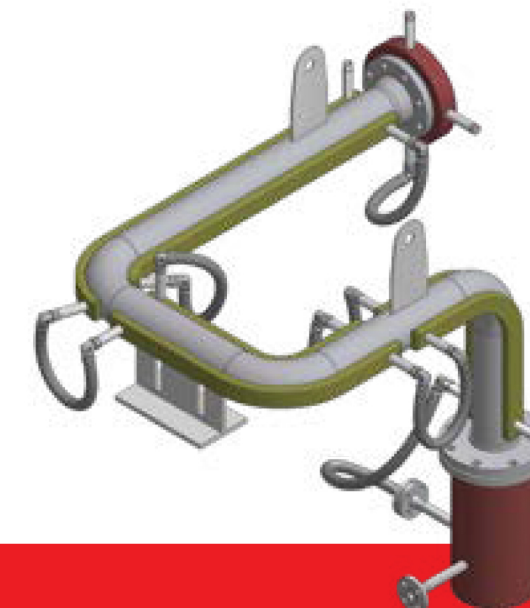
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TYPICAL APPLICATIONS



ControTrace® Heating Elements perform well in diverse applications from chocolate to polyester resin. Numerous plants have significantly reduced their use of jacketed pipe, preferring to use ControTrace on process piping for DMT, rosins, sulfur, cyanuric chloride, acrylic acid, hot

melts, bottoms, and recirculating lines. You can depend on CSI for the complete service of design, fabrication, and installation of the bolt-on heating system.



TOTAL HEATING SOLUTIONS

ControTrace is an integral part of CSI's Total Heating Solutions portfolio.

Services provided as part of CSI's Total Heating Solutions

MOS – MANIFOLD OPTIMIZATION SCHEME

- Optimizes the engineered heating circuit design
- Minimizes equipments costs
- Reduces cost, steam consumption and improves reliability

GLOBAL FIELD SUPPORT AND INSTALLATION TRAINING

- Detailed installation drawings and circuit/manifold charts
- Minimize installation time and cost

Components offered as part of CSI's Total Heating Solutions

- Heating system for pipe (Jacketed Pipe, ControTrace, TraceBOOST, Tube Tracing)
- Heating system for valves/instruments (ControHeat)
- Process pipe
- Steam supply return components (traps, tubing, manifolds)
- Engineering expertise and experience to optimize the cost of the entire system





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