

# Removable Insulation Covers

## Turnkey Contracting & Industry-leading Insulation Blankets



**Survey:** All bare and/or poorly insulated piping, fittings and equipment are identified in central plants, mechanical rooms, manholes, vaults, tunnels and confined spaces and a detailed report containing candidates for RICs is generated. Site conditions are noted so that we can recommend appropriate jacketing and core insulation materials. Projected energy savings and ROI can also be provided at this stage.

**Measure:** Upon award, TST mobilizes to the site to measure the project. This assures that each RIC is custom, precise and capable of maximizing heat retention. Facility personnel are welcome to accompany our team at this stage to be certain that all problematic items and areas are addressed.



**Design:** Our RICs are designed to be flexible, form-fitting and remove and replace with ease. Each RIC is designed with a new template which avoids fabrication of oversized or sagging insulation blankets caused by the use of one-size-fits-all templates.

**Fabricate:** All RICs are assembled and machine-sewn with premium materials to ensure a long service life. We offer a variety of different securement options and an embossed stainless steel ID tag that contains specific info about the item and its location.



**Install:** Once the RICs have been inspected, our team returns to the facility to install them. If any insulation blankets do not fit correctly they are modified on site or replacements are fabricated and expedited to the site within 24 hours.

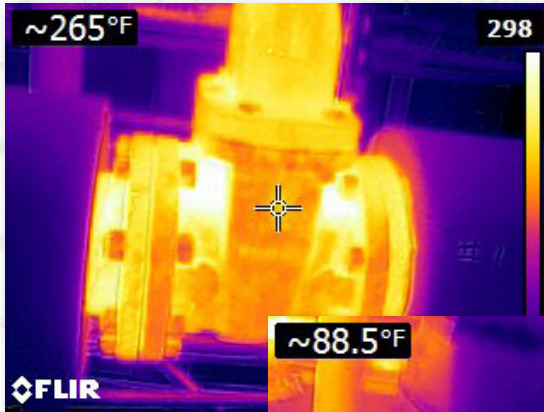
### Corporate Office

7526-R Connelley Drive • Hanover, MD 21076  
(410) 760-7241 • sales@thermalsciencetech.com

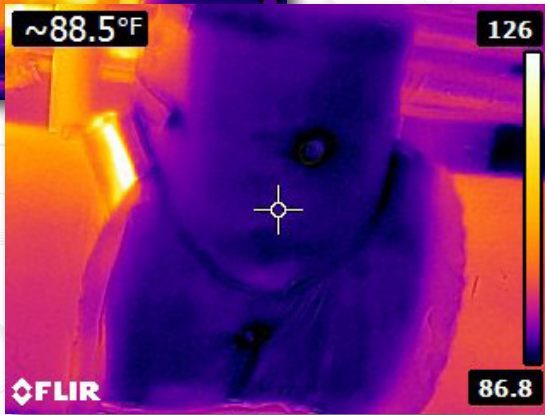


**THERMAL SCIENCE  
TECHNOLOGIES**  
Saving Energy with Innovative Insulation Solutions

# Energy Savings & Benefits



**BEFORE**



**AFTER**

## Estimated RIC Energy Savings

Item:	8-inch flanged gate valve (ANSI 150#)
Operating Temperature:	400°F
Boiler Efficiency:	80%
Operating Cost:	\$12.00/MMBtu
<b>Annual Savings:</b>	<b>\$1090.62</b>
<b>Return on Investment:</b>	<b>6 months</b>
<b>Life Cycle Cost Savings (15 YR):</b>	<b>\$16,359.30</b>

All calculations are based on a Removable Insulation Cover (RIC) manufactured with a 1-inch thick Type "E" needled fiberglass mat insulation. ROI depicted above is based on cost to measure, design, fabricate and install the RIC in a turnkey manner. Estimated energy savings are derived from U.S. Department of Energy, Advanced Manufacturing Office, Steam Tip Sheet #17, Jan 2012.

## Why choose RICs over conventional insulation?

<b>Immediate energy savings</b>	The minute a RIC is installed on a bare valve or fitting, energy savings and reduced fuel costs begin.
<b>Quick removal &amp; replacement</b>	The form-fitting design and precise workmanship of our RICs allows them to be removed & replaced within minutes.
<b>Avoid costly replacement of insulation</b>	Once conventional insulation is removed, it is destroyed & requires costly replacement. TST's RICs avoid repair costs & are re-installed in just minutes.
<b>Protect personnel</b>	Prevent unnecessary burns to personnel while working in the vicinity.
<b>Reduce ambient temperatures</b>	RICs applied to bare piping in rooms or areas can drastically reduce ambient temperatures in central plants, mech rooms, tunnels, manholes and vaults.
<b>Attractive ROI</b>	Our turnkey RIC project paybacks typically range from 6-18 months, based on energy savings alone.