



# INDELAC MODEL THERMOARMOR



## THERMAL BLANKET FOR ALL ACTUATOR SERIES

### Introduction

Indelac ThermoArmor Thermal Blanket is a custom fit high quality pre-engineered insulation system designed to save energy, retain radiant heat, minimize insulation maintenance and improve the surrounding work environment. ThermoArmor is also capable of withstanding weather conditions and chemical environments. ThermoArmor is flexible and easy to install, easy to remove and reinstall allowing quick access and easy equipment serviceability.

### Maximum Service Temperature

This design is to act as a Thermal Barrier with a maximum service temperature of 550°F (288°C).

### Product Components

The Outer and Inner Jacket is a 16.5 oz/sq. yd. PTFE Teflon® impregnated Fiberglass cloth. The Insulation Material is an 11PCF Fiberglass Needled Mat – Type “E” fiber. The inner jacket also has a layer of Stainless Steel Type 304 Knitted Wire Mesh. The ThermoArmor Blanket system includes fasteners for easy install and removal.

### Warranty

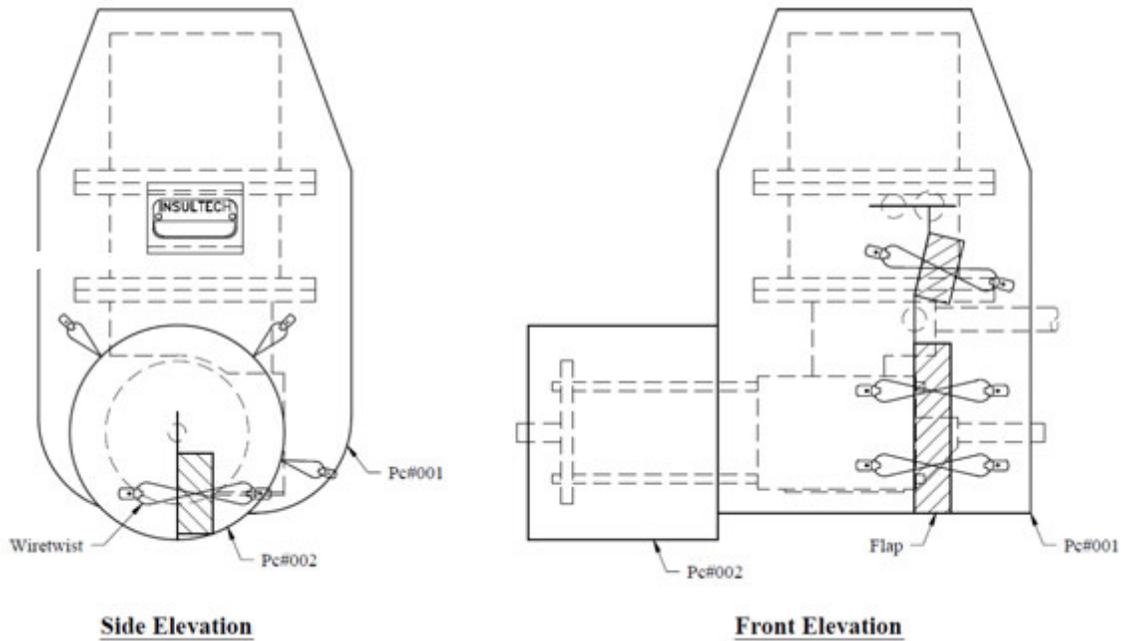
We guarantee that all custom manufactured blankets will accommodate all actuators and fit correctly for optimum performance as per the design specification provided in the quotation process. In addition, for 12 months we will cover the cost of replacing the blanket should the failure be due to premature degradation of any component utilized in the blanket construction, as well as any defects due to poor workmanship.



**Blanket Thickness Surface Temperature Reference**

<i>Thickness</i>	1"	1.5"	2"
<i>Operating Temperature</i>	<i>Surface Temperature</i>		
350 °F	117 °F	105 °F	97 °F
400 °F	126 °F	111 °F	103 °F
450 °F	135 °F	118 °F	108 °F
500 °F	145 °F	125 °F	114 °F
550 °F	154 °F	132 °F	120 °F

## Technical Drawing



## High Temperature Operation Test

Recently ICI submitted one of our ACS electric spring return actuators incased in our ThermoArmor blanket for high temperature operational testing. The purpose of the test was to verify that our ASC Series spring return actuator meets the specifications for **use in tunnel application**.



The actuator was installed in an environmental chamber then the temperature inside the chamber was ramped up to 482°F (250°C). The actuator was inside the chamber for duration of two hours and was powered open then closed every ten minutes.

After the test was completed the actuator was inspected to determine the effect of high temperature exposure while protected by our ThermoArmor thermal blanket. As can be seen in the picture dated 01-02-14 the ASC actuator suffered no damage.

To see complete results of the test, visit our website at [www.indelac.com](http://www.indelac.com).

**ICI's ThermoArmor thermal blanket can be fitted to all of our actuators for use in short duration high temperature applications where continued valve or damper automation is critical.**