

Valvcon™ ESR-series heater/thermostat kit and tropical heater/thermostat kit

Installation, maintenance and
operating instructions

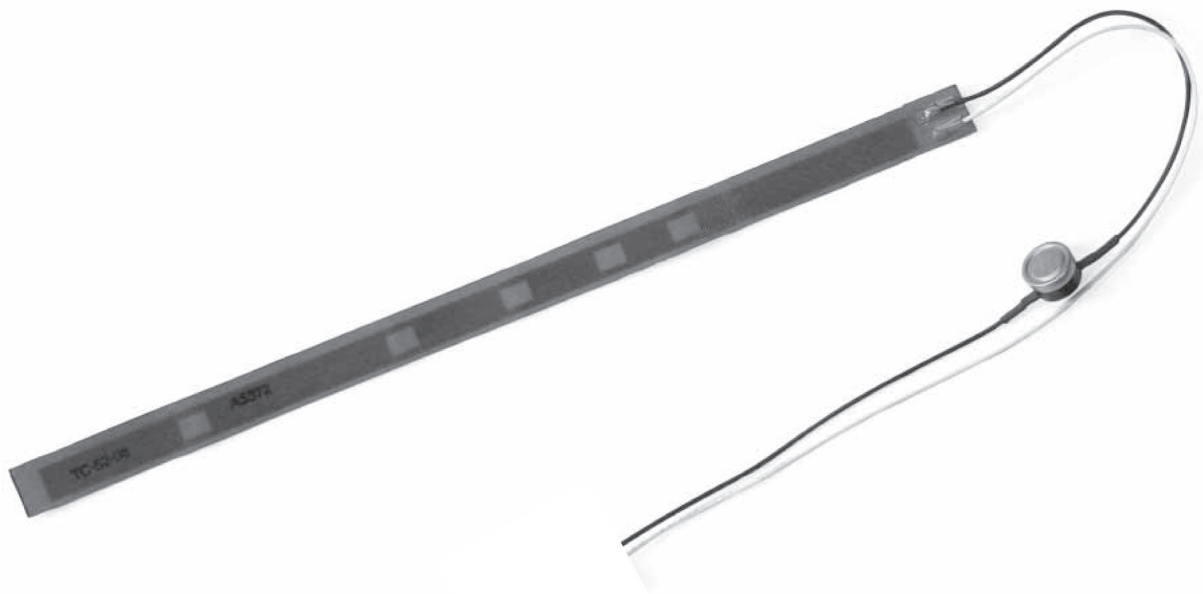


Table of contents

GENERAL	3
Description ESR-Series Tropical Heater/Thermostat	3
Description ESR-Series Heater/Thermostat	3
PARTS LIST	3
TOOLS REQUIRED	3
INSTALLATION	3

READ THESE INSTRUCTIONS FIRST!

These instructions provide information about safe handling and operation of the valve.

If you require additional assistance, please contact the manufacturer or manufacturer's representative.

SAVE THESE INSTRUCTIONS!

Addresses and phone numbers are printed on the back cover.

1. GENERAL

1.1 DESCRIPTION ESR-SERIES TROPICAL HEATER/THERMOSTAT

The ESR-Series Tropical Heater/Thermostat Kit provides a measure of protection against condensation build-up inside the actuator caused by high-humidity environments or rapidly changing temperatures. It maintains an internal ambient temperature between 90°F and 110°F, preventing the build-up of condensation. Separate kits are available for 115 and 230VAC powered actuators. The 115VAC heater is rated at 15 watts and the 230VAC heater is rated at 40 watts. **Note:** Before installing the heater and thermostat, check that the heater operating voltage is the same as the power to the actuator into which it is being installed; if they are not the same, damage to the circuit board will likely occur.

1.2 DESCRIPTION ESR-SERIES HEATER/THERMOSTAT

The ESR-Series Heater/Thermostat Kit provides a controlled means of heating the actuator motor and gear train and permits the use of the actuator in environments where the ambient temperature can fall as low as -40°F. This Kit is available for 115 and 230VAC powered actuators. The 115VAC heaters are rated at 15 watts and the 230VAC heater is rated at 40 watts. The thermostat turns the heater on at 40°F and off at 60°F. **Note:** Before installing the heater and thermostat, check that the heater operating voltage is the same as the power to the actuator into which it is being installed; if they are not the same, damage to the circuit board will likely occur.

2. PARTS LIST

- 1 - Heater/Thermostat Assembly
- 2 - Cable Ties

3. TOOLS REQUIRED

- 3/16 inch Hex wrench (ADC)
- 1/4 inch Hex wrench (LADC)
- Small Flat Blade Screwdriver (for terminal connection)

4. INSTALLATION

CAUTION:

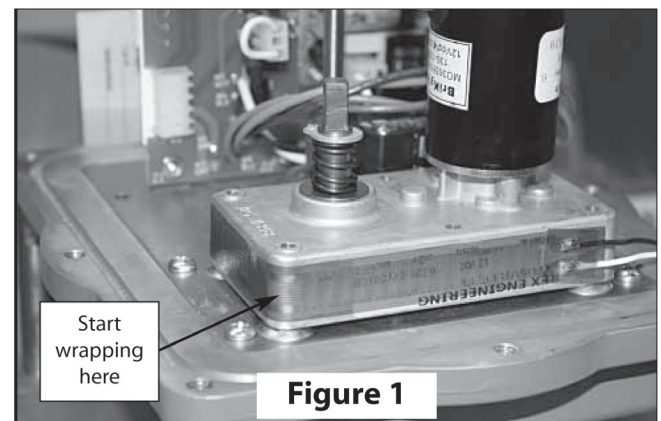
DANGEROUS VOLTAGES ARE PRESENT INSIDE THE ACTUATOR COVER UNLESS THE POWER SUPPLY TO THE ACTUATOR HAS BEEN SHUT OFF OR DISCONNECTED. USE EXTREME CAUTION WHENEVER WORKING ON THE ACTUATOR WITH THE COVER REMOVED.

A. Remove the Actuator Cover

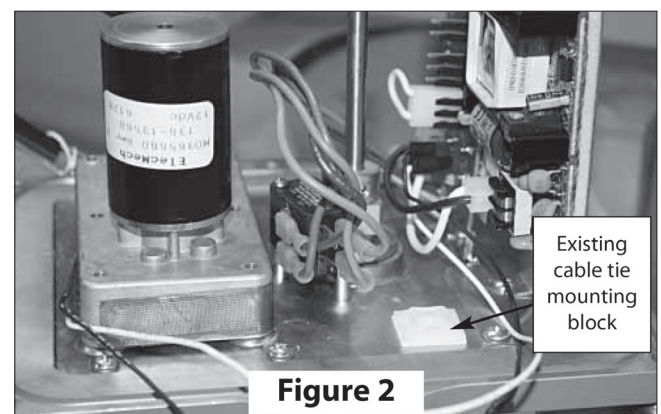
Remove the actuator cover by removing the screws securing the cover to the base.

B. Install the Heater/Thermostat Assembly

1. Clean the surface of the motor gearbox prior to installation, (suggested solvent: rubbing alcohol).
2. Remove the plastic backing from the heater element to expose the adhesive surface.
3. Locate the first 'space' (see **Figure 1**) on the element from the wire side of the assembly and start wrapping with the 'space' on corner of the gearbox as shown by the arrow.



4. Wrap the heater element as shown in figure 2.



5. Route wires between the Power Board and switching power supply.
6. Connect the heater/thermostat assembly wires to terminals 11 and 12 on the front of the Power Board. (See **Figure 3**)

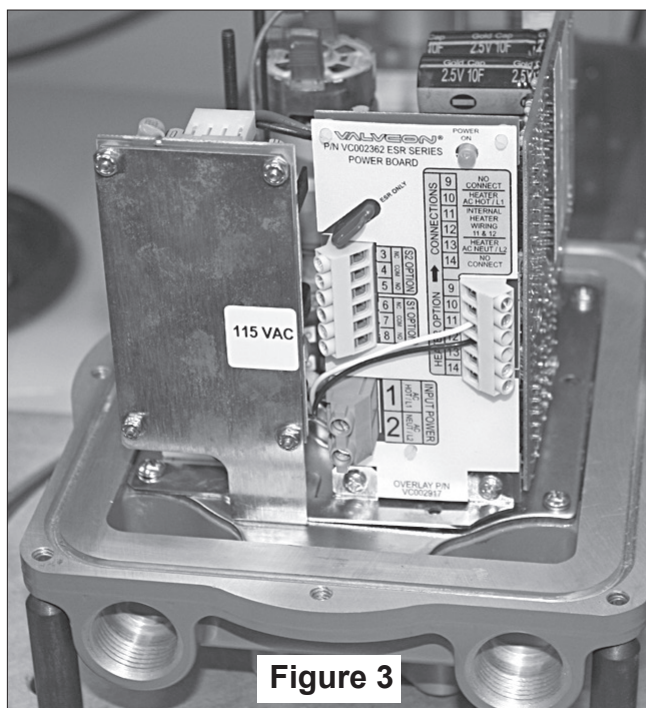
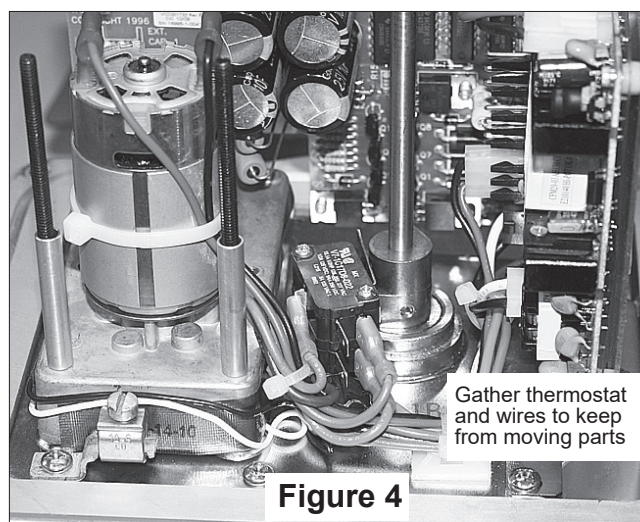


Figure 3

7. Wrap wires and secure with cable ties as depicted in figure 4.



C. Operation

Separate heater/thermostat power must be maintained at terminals 10 and 13 for this option to function properly.

Subject to change without prior notice.

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