

Valvcon™ LC series tropical heater/thermostat kit and heater/ thermostat kit

Installation, maintenance and
operating instructions

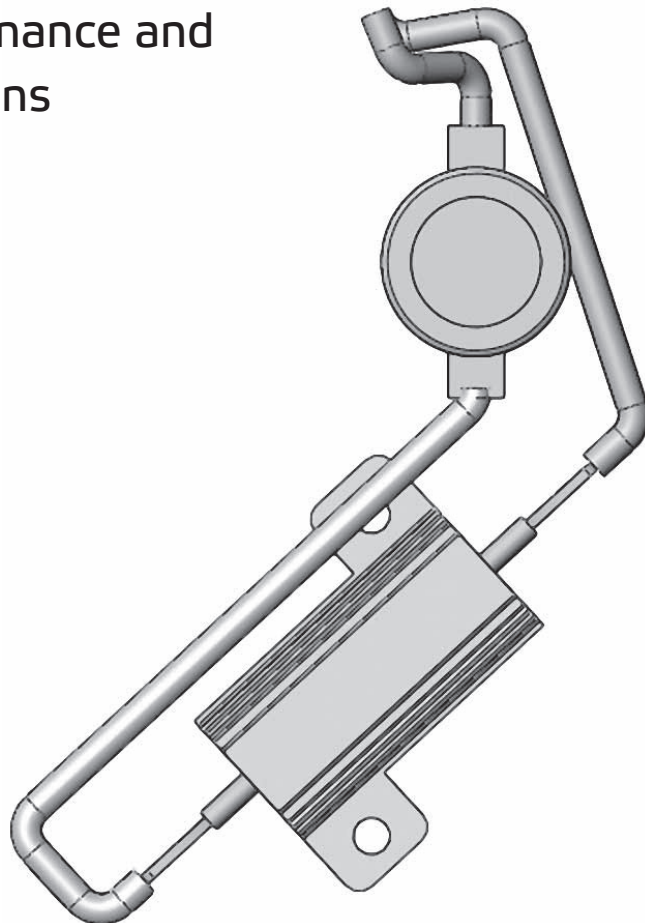


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READ THESE INSTRUCTIONS FIRST!

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

The Heater/Thermostat & Tropical Heater/Thermostat Kit is intended for use with a Valvcon LCR-Series or LCU-Series Electric Actuator.

1.1 DESCRIPTION TROPICAL HEATER/THERMOSTAT

The 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° and 110° Fahrenheit, preventing the build-up of condensation. Separate kits are available for 115 VAC, 230 VAC, 24 VAC, 12 VDC and 24 VDC motor voltages (Note: Be certain that the kit voltage matches the motor voltage). The heater can also be installed without a thermostat to assist in humidity control.

1.2 DESCRIPTION HEATER/THERMOSTAT

The Heater/Thermostat Kit is designed to provide a controlled means of heating the actuator motor and gear train in order to allow use of the actuator in environments where the ambient temperature is as low as -40°F. The thermostat turns on at or below 40°F and turns off at or above 60°F. Separate kits are available for 115 VAC, 230 VAC, 24 VAC, 12 VDC AND 24 VDC motor voltages (Note: Be certain that the kit voltage matches the motor voltage).

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.

2. INSTALLATION

2.1 REMOVE ACTUATOR COVER

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

2.2 INSTALL HEATER/THERMOSTAT ELEMENT

1. Slip the heater block over the two cast posts protruding from the motor support plate surface, make sure that the heater block is flush with the motor support plate surface. **See Figure 1.**
2. Once the heater block is in place stake the two cast posts with a sharp tool such as a prick punch or centering punch to lock the heater block in place. (Please be careful not to use excessive force as you will damage the base plate, and possibly the moving parts below.)
3. Route the lead from the heater block to the bottom of terminal position one (1) or terminal position seven (7) if DC Powered LCR.
4. Route the lead from thermostat to the bottom of terminal position two (2) or terminal position eight (8) if DC Powered LCR.
5. Using the supplied wire ties, secure the thermostat and heater element wires to keep them clear of any moving parts.

USING A HAMMER AND SHARP IMPLEMENT STAKE/PEEN THE TWO CAST POSTS TO HOLD THE HEATER BLOCK IN PLACE

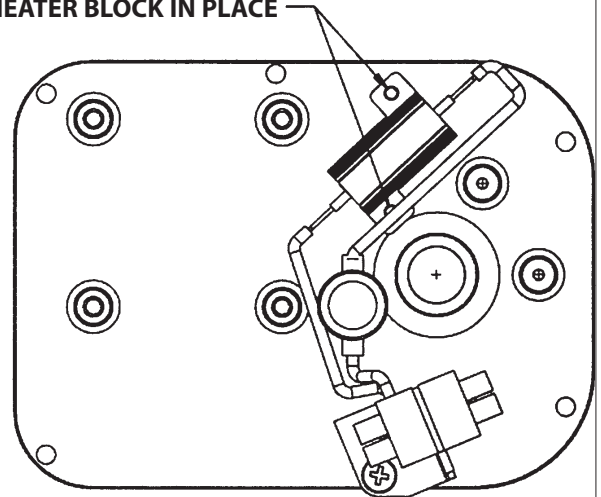
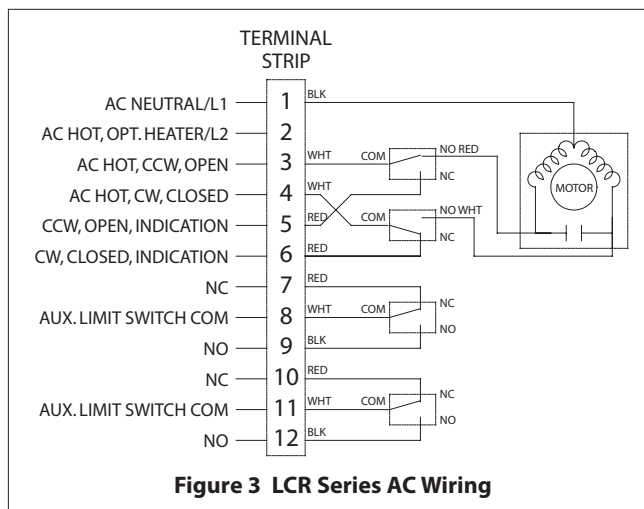
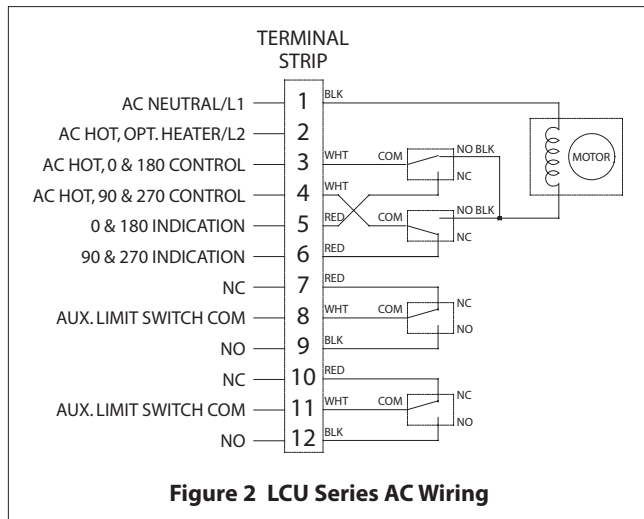


Figure 1

3. AC WIRING (Figures 2 & 3)

1. Wire AC NEUTRAL/L1 to terminal 1.
2. Wire AC HOT/L2 to terminal 2.
3. With power applied as outlined above the thermostat will cycle the heater on and off as needed to maintain temperature.



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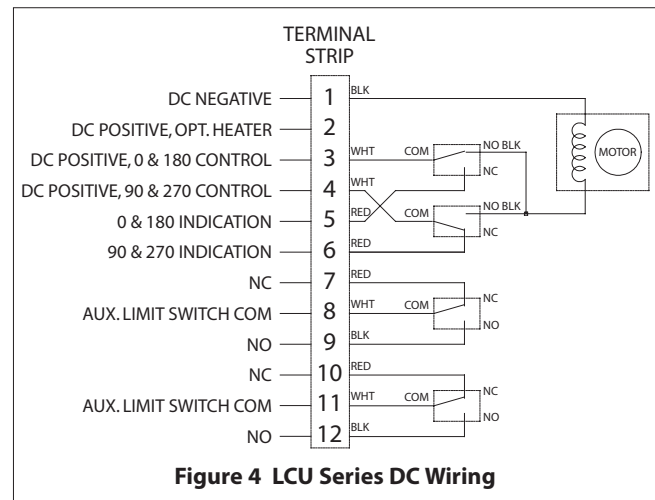
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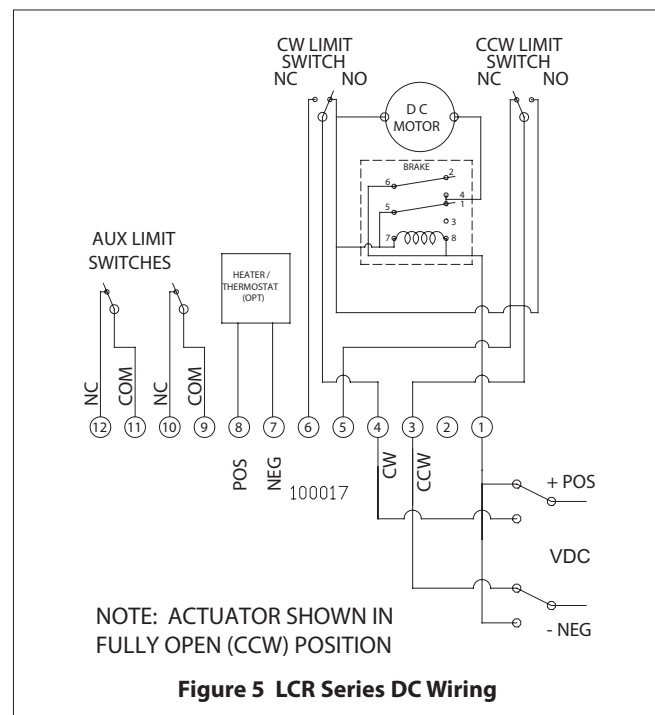
4a DC WIRING LCU (Figure 4)

1. Wire DC NEGATIVE to terminal 1.
2. Wire DC POSITIVE to terminal 2.
3. With power applied as outlined above the thermostat will cycle the heater on and off as needed to maintain temperature.



4b DC WIRING LCR (Figure 5)

1. Wire DC NEGATIVE to terminal 7.
2. Wire DC POSITIVE to terminal 8.
3. With optional power applied as outlined above the thermostat will cycle the heater on and off as needed to maintain temperature.



NOTE: ACTUATOR SHOWN IN FULLY OPEN (CCW) POSITION

