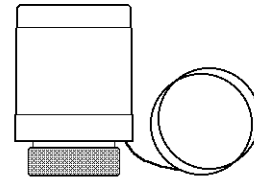


Control Type 690C Electric Control—Switch-able Open/Closed Installation & Operating Instructions

690C DESCRIPTION
NEW INSTALLATIONS
VALVE MAINTENANCE
TYPE 690C INSTALLATION INSTRUCTIONS

Ammark's 690C control is a low voltage electric control delivered as "normally closed", but is easily switch-able to the "normally open" position. It may be fitted to any Ammark thermostatic radiator valve.



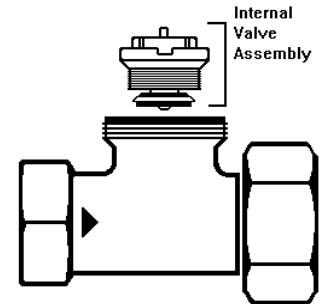
Type 690C Control

When installing a control with a new valve, first follow all of the instructions enclosed with the valve pertaining to valve installation. After the valve is completely installed, remove the protective cap from the valve and install the control according to the installation instructions. Do not mount the drive facing down, as dripping water may cause the drive to malfunction.

When replacing a control which is not functioning, remove the old control from the valve by loosening the connecting ring which holds the control on the valve.

If the old control was damaged by steam or water leaking from the valve stem, maintenance is required. All seals and moving parts of the the valve are incorporated into an easily serviced Internal Valve Assembly (IVA), which is common to all valve types and sizes. Service the valve as follows:

- Remove the IVA with Ammark Part #ICT (it is not necessary to turn-off or drain the system).
- If the ICT tool is not available, the system must be shut-off (and drained if it is a water system). Use an adjustable wrench to remove the IVA.
- If the IVA requires replacement, install a new one using an adjustable wrench or the ICT tool.
- Press the valve stem to make sure it moves up and down freely. Observe the assembly under pressure to make sure it doesn't leak.



After completing the valve maintenance, follow the installation instructions for the appropriate control.

The Type 69 OC 24V Control is attached to the valve by screwing the control onto the valve until hand-tight. Tools should not be used to attach or tighten the control to the valve. Never attempt to remove the permanent control housing. Do not mount the control below the valve axis, as dripping water could damage the control.

Control Type 69OC Electric Control—Switch-able Open/Closed Installation & Operating Instructions

TYPE 69OC CONNECTIONS & SPECIFICATIONS

The Type 69OC is a two-point (opened or closed), 24V Control. Electrical connections and specifications are as follows:

Control Type	69OC
Normal Position	69OC - Closed without current
Operating Voltage	24V ± 10%
Power Consumption - Short term during valve closing - In permanent operation	.7A 130 mA, 3W
Opening Time	Approx 2 min.
Closing Time	Approx 3 min.
Max Ambient Temp	122 °F

If required, several Type 69 Controls can be connected in parallel, depending on the maximum operating current of the room thermostat. Divide the maximum operating current of the thermostat by .7A to determine the number of controls which may be operated in parallel. For example, a thermostat with maximum operating current of 6 A would allow eight Type 69OCs to be connected in parallel.



SWITCH 69OC TO NORMALLY OPEN

To set the control to the “normally open without current” position, use the following procedure and drawings:

1. On outside of control head, remove transparent window with a small screwdriver.
2. Remove the red indicator with pliers.
3. Turn control over and locate the black piston adapter at the bottom. Remove it with pliers.
4. Insert a 2mm, or 1/12” screwdriver into the piston’s notch in the bottom of the control. Holding the control, push the piston with the screw driver 3.5mm and turn 60° counter clockwise. Pull the screwdriver back out about 4mm to lock the setting in place.
5. Check the position of the slot. Ensure it is lined-up with the next opening.
6. Replace the red indicator button with the pliers.
7. Replace the transparent window.
8. Retain the black piston adapter in a safe place in-case there is a need to change the control back to the “normally closed” position.

