CALEFACTIO RADIANT

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ACTUATOR #AC24NC

USER MANUAL

To facilitate installation and start-up testing, zone opening and closing can be performed without electrical power. To open a zone, simply turn the blue actuator head manually in a clockwise direction.

APPLICATION

This actuator was designed for use only with Calefactio Radiant Caltherm Pro and Caltherm Mega manifolds.

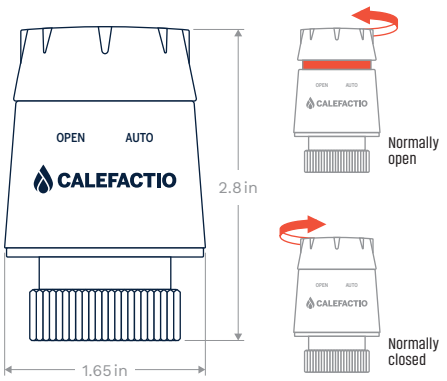
Its use is recommended for hot-water radiant floor systems that require precise flow balancing.

Any use with products from other manufacturers is not recommended and could affect the system's performance or durability.

TECHNICAL SPECIFICATIONS

Supply voltage: 24V
Power consumption: 3W
Frequency: 60 Hz
Spindle travel time: 3 to 5 minutes
Stroke: 3 to 5 mm
Ambient temperature: -5°C to 60°C
Enclosure: IP54
Cable length: 750 mm

Model#	Connection	Weight	
		lb	g
AC24NC	M30×1.5	0.28	125.5



OPERATION

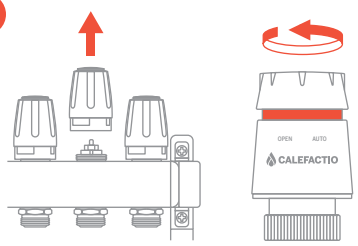
▶ **Normally closed version (NC) 2-wire**

When installed on the manifold, the actuator keeps the valve closed, preventing fluid circulation as long as it is not powered. In this position, it is in Auto mode and the red indicator is not visible.

Once powered, the thermostatic element performs a linear movement that pushes the valve, opening the fluid passage. The appearance of the red indicator confirms that it is then in Open mode. When the power supply is cut off, the valve automatically closes again, stopping fluid circulation and returning to Auto mode.

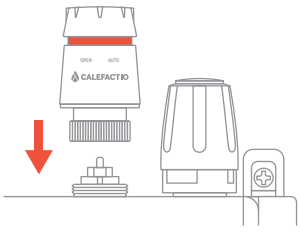
ASSEMBLY

1



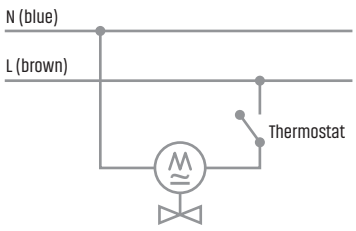
Remove the blue protective cap, then manually open the actuator head.

2

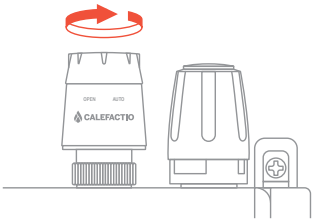


Screw the actuator onto the manifold thread clockwise, without applying excessive force.

Wiring diagram for #AC24NC

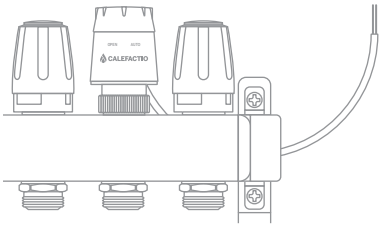


3



Once the actuator is properly positioned, manually close the head.

4



Connect the electrical wiring, ensuring that the controller's maximum amperage rating is compatible with the actuator's load.

CAUTION

If the power supply cable is damaged, replace the whole device. The power supply cable cannot be repaired.

To prevent injury or compromise user safety, never open the actuator housing, even in the event of a malfunction.

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