

# PRODUCT SUBMITTAL 611

**Product:** Manifold Valve Actuator for RA Valve  
**Date:** 21 July 2017 (supersedes 14 October 2009)



Article No.	Description
260167	Manifold Valve Actuator for RA Valve

### TECHNICAL DESCRIPTION

Voltage	24 Volt AC
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### FUNCTIONAL DESCRIPTION

- The 4-wire manifold valve actuator is used to open RA zone/circuit valves.
- Gray position indicator provides visual verification of the actuator's position. When the actuator is off and closed, the gray indicator is flush with the top of the actuator. When the actuator is on and open, the gray indicator will rise out of the top of the actuator and be visible from the side.
- Red pull-out tab is provided to hold the actuator open when installing on the RA valve.
- A dry-contact end switch is built in to the actuator. This end switch can be used to operate 24 VAC relays for pumps and other devices, and may be wired so that pumps turn on only when actuator is fully open. End switch rated 24 VAC/ZA
- If required, connect the green end switch wires to a suitable 24 VAC-powered relay, to activate a device to be operated by the actuator's end switch. Or, connect these wires directly into a zone control module.
- 24 VAC "thermal motor" heating element melts a wax cartridge, allowing the actuator to open when there is a call for heat (power on). When the power is off, the wax cools and closes the valve (normally closed). Operation takes 3-4 minutes. Operational Stoke distance on a PRO-BALANCE<sup>®</sup> manifold valve is approx. 2.2 mm. Actuator not recommended in ambient temperatures above 140°F (60°C). This can place wax in semi-liquefied state causing the valve to falsely operate and proper regulation will be lost.
- 4 wires: Blue/Brown – Apply 24 VAC power; Green (2) – end switch. Length - 40" (100 cm) each.
- Ambient operating temperature range of 32°F to 140°F (0°C to 60°C).
- Low power draw: Approximately 2 VA in operation. Maximum 4.5 VA when first powered.
- Maximum  $\Delta p$  8.7 psi (0.6 bar)

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