

VA-7450 Series

# **Electric Valve Actuators**



VA-7450 Electric Valve Actuator

## Description

VA-7450 Series Electric Valve Actuators provide on/off, floating, or proportional control in Heating, Ventilating, and Air Conditioning (HVAC) applications. The compact design of this actuator series makes it ideal for installations in confined locations, such as fan coil applications. The VA-7450 Series Actuators are designed for easy mounting in the field, or they can be ordered factory coupled to Johnson Controls® VG4000 or VG5000 Series Zone Valves.

Refer to the VA-7450 Series Electric Valve Actuators Product Bulletin (LIT-977324) for important product application information.

### **Features**

- auto-commissioning simplifies installation, since models require no adjustments in the field
- auto-shutoff actuator motor extends actuator life by reducing drive time and excessive motor wear
- durable, heat-stabilized, plastic resin enclosure allows the actuator to be used in applications with fluid temperatures up to 203°F (95°C)
- actuator can be mounted after the valve body is piped, simplifying installation and providing application flexibility
- compact design allows for installation in confined locations, such as fan coil applications
- operating status light-emitting diode (LED) provides direct, visual indication of the actuator operating status
- actuator can be rotated after it is mounted on the valve body, simplifying installation by allowing the actuator wiring entry to be located in any direction

**Accessories (Order Separately)** 

Code Number	Description
VA-7450-8900	Manual Override Ring for Use with VG5000 Series Zone Valve Bodies

# **Repair Parts**

Replace unit.

#### To Order

Specify the code number from the following Selection Chart.

## **Selection Chart**

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Code Number	Description	
VA-7450-10011	24 VAC On/Off or Floating Control Electric Valve Actuator	
VA-7452-90011	0 to 10 VDC Proportional Control Electric Valve Actuator	

#### **Specifications**

Specifications			
VA-7450 Series Electric Valve Actuators			
Power Requirements		24 VAC ±15% at 50/60 Hz; 5.0 VA at Maximum Power Supply; Class 2	
Input Signal	VA-7450-10011	1 24 VAC, 50/60 Hz	
	VA-7452-90011	1 0 to 10 VDC	
Input Signal Adjustments	VA-7450-10011	1 None	
	VA-7452-90011	Input Signal: 0 to 10 VDC, 0 to 5 VDC, or 5 to 10 VDC Direction: Direct (Drive Down) or Reverse (Drive Up) with Input Signal Increase Valve Type: Two-Way N.O. (PDTC), Two-Way N.C. (PDTO), or Three-Way Mixing Factory Settings: 0 to 10 VDC, Direct (Drive Down), and Two-Way N.O. (PDTC)	
Input Impedance	VA-7450-10011	1 3,900 ohms	
	VA-7452-90011	1 80,000 ohms	
Electrical Connections		24 AWG Cable; 20 in. (508 mm) Long	
Mechanical Connections		Threaded Coupling for Johnson Controls VG4000 or VG5000 Series Zone Valves	
Enclosure		Glass and Mineral-Filled Kelon A Plastic Resin; NEMA 1, IP40 (EN 60529)	
Output Force		21.5 lb (96 N) Minimum	
Stroke		0.20 in. (5 mm) Maximum	
Full Stroke Cycle Time		65 Seconds	
Full Stroke Cycles		100,000	
Audible Noise Rating		25 dBA Maximum at 3.3 ft (1 m)	
Fluid Temperature Limits		35 to 203°F (2 to 95°C)	
Ambient Operating Conditions		32 to 122°F (0 to 50°C), Noncondensing	
Ambient Storage Conditions		-4 to 149°F (-20 to 65°C), Noncondensing	
Agency Compliance		UL 873 Listed, File E27734, CCN XAPX, Suitable for Plenum Use; CSA C22.2 No. 139 Certified, File LR85083, Class 3221 01	
CE Conformity		EMC Directive (89/336 EEC)	