

## VA-748x Electric Valve Actuators

### Description

VA-7480 Series Electric Valve Actuators provide floating or proportional control in HVAC applications. The compact design of this actuator series makes it ideal for installations in confined locations, such as fan coil applications. The VA-7480 Series Actuators are designed for easy mounting in the field.

Refer to the *VA-748x Electric Valve Actuator Product Bulletin (LIT-12011893)* 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 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



VA-7480 Electric Valve Actuator

### Repair Information

If the VA-7480 Electric Actuator fails to operate within its specifications, replace the unit. For a replacement VA-7480 Electric Valve Actuator, contact the nearest Johnson Controls® representative.

### Selection Chart

Code Number	Description
VA-7480-0312	24 VAC On/Off or Floating Control Electric Valve Actuator
VA-7482-0312	0 to 10 VDC Proportional Control Electric Valve Actuator

### Technical Specifications

VA-7480 Series Electric Valve Actuators		
Power Requirements	VA-7480-0312	24 VAC $\pm$ 15% at 50/60 Hz; 2.5 VA at Maximum Power Supply; Class 2
	VA-7482-0312	24 VAC $\pm$ 15% at 50/60 Hz; 24 VDC $\pm$ 15% at 2.5 VA at Maximum Power Supply; Class 2
Input Signal	VA-7480-0312	24 VAC, 50/60 Hz
	VA-7482-0312	0 to 10 VDC
Input Signal Adjustments	VA-7480-0312	None
	VA-7482-0312	Input Signal: 0 to 10 VDC, 2 to 10 VDC, 0 to 5 VDC, 5 to 10 VDC, 0 to 20 mA, or 4 to 20 mA Direction: Direct (Drive Down) or Reverse (Drive Up) with Input Signal Increase
Input Impedance	VA-7480-0312	3,900 ohms
	VA-7482-0312	100,000 ohms
Electrical Connections		18 AWG Cable; 118 in. (3 m) Long
Mechanical Connections		Threaded Coupling for Johnson Controls VG4000 or VG5000 Series Zone Valves
Enclosure		Glass and Mineral-Filled Kelon A Plastic Resin; NEMA 2, IP43
Output Force		21.5 lb (96 N) Minimum
Stroke		0.25 in. (6.3 mm) Maximum
Full Stroke Cycle Time		Floating 13 s/mm, Proportional 8 s/mm
Full Stroke Cycles		250,000
Audible Noise Rating		<30 dBA
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
Compliance	United States	Tested per UL2043. Suitable for Use in Other Environmental Air Space (Plenums) in Accordance with Section 300.22 (C) of the National Electrical Code. UL 60730-1 Listed Type 2 Enclosure, File E194024 XAPX XAPX7
	Canada	CSA C22.2 No. 139 Certified, File LR85083, Class 3221 01
	Europe	CE Mark – Johnson Controls, Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

