

VA-715x Series Electric Valve Actuator

Description

The VA-715x Series synchronous, motor-driven actuator provides incremental (three-wire), incremental with feedback, or proportional control of valves with up to 3/4 in. (19.05 mm) stroke in HVAC applications.

This compact, non-spring-return actuator has a 90 lb (400 N) force minimum, and responds to a variety of input signals.

The VA-715x Series can be easily field mounted or ordered factory coupled to VG7000 Series Bronze Control Valves.

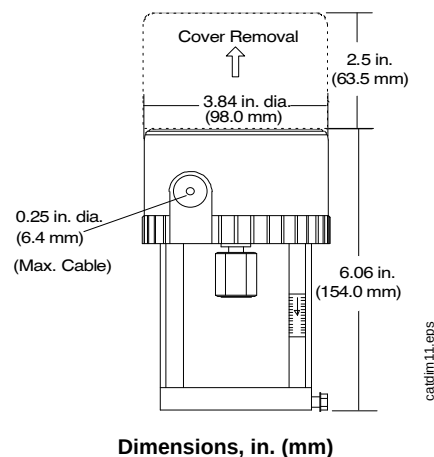
Refer to the *VG7000 Series Bronze Control Valves Product Bulletin (LIT-977140)* for important product application information.

Selection Chart

Code Number	Description
VA-7150-1001	Three-Wire Incremental
VA-7153-1001	Three-Wire Incremental with Position Feedback
VA-7152-1001	Proportional, 0 to 10 VDC

Accessories

Code Number	Description
V-9999-670	Bonnet Adaptor (Used for Field Mounting to VT Series Valve Body with Threaded Stem)
Y20EBE-2	Adaptor Kit (Used for Field Mounting to VT Series Valve Body with Slotted Stem)
VA-7150-1900	Conduit Adaptor Kit
V-9999-HW1	Mounting Kit to Mount VA-715x or VA-720x Series Electric Actuators to Honeywell® V75011A, F, G, 1/2 through 3 in. Single-Seated and V5013F Three-Way Valves
V-9999-BC1	Mounting Kit to Mount VA-715x or VA-720x Series Electric Actuators to Barber-Colman® 1/2 through 1-1/4 in. VB-9xxx Valve Bodies



Features

- magnetic clutch provides constant output force for positive closeoff of valves, and protects the motor in stall conditions
- selectable direct and reverse action simplifies setup and installation
- durable construction provides a longer cycle life
- compact unit provides 90 lb force output, covering a wide range of applications with just one actuator
- unique yoke design enables easy field mounting to valves, reducing installation and stroke adjustment time

Applications

The VA-715x Series Actuator is used in conjunction with VG7000 Series Valves for hot water and chilled water systems. For VG7000 Series Valve options, refer to the *VG7000 Series Brass Trim Globe Valves with VA-715x Series Electric Actuators Catalog Page (LIT-1900084)* and the *VG7000 Series Stainless Steel Trim Globe Valves with VA-715x Series Electric Actuators Catalog Page (LIT-1900090)*. For field mounting options, refer to the *VG7000 Series Bronze Globe Valves for Assembly in the Field Catalog Page (LIT-1924005)*.



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Repair Information

If the VA-715x Series Electric Valve Actuator fails to operate within its specifications, replace the unit. For a replacement actuator, contact the nearest Johnson Controls® representative.

Technical Specifications

VA-715x Series Electric Valve Actuator	
Power Requirements	24 VAC (20 to 30 VAC), 50/60 Hz
Input Signal	Incremental: 24 VAC, 50/60 Hz Incremental with Position Feedback: 24 VAC, 50/60 Hz Proportional: 0 to 10 VDC
Input Signal Adjustments (Proportional)	Input Signal: 0 to 5, 5 to 10, 0 to 10 VDC (Jumper Selectable) Action: Drive Up (RA) or Drive Down (DA) on Signal Increase (Jumper Selectable) Factory Setting: 0 to 10 VDC Over 3/4 in. (19 mm) Stroke, DA
Input Impedance (Proportional)	100,000 Ohms
Feedback Signal	Proportional: 0 to 2,000 Ohms $\pm 25\%$, 1/4 W, Over 25/32 in. (20 mm) Stroke
Mechanical Output	90 lb Force (400 N) Minimum
Stroke Range	5/16 to 25/32 in. (8 to 20 mm)
Nominal Stroke Timing	50 Hz: 85 Seconds 5/16 in. (8 mm) Stroke 135 Seconds 1/2 in. (13 mm) Stroke 200 Seconds 3/4 in. (19 mm) Stroke 60 Hz: 70 Seconds 5/16 in. (8 mm) Stroke 110 Seconds 1/2 in. (13 mm) Stroke 165 Seconds 3/4 in. (19 mm) Stroke
Media Temperature	280°F (138°C) Maximum
Electrical Connection	Screw Terminals for 16 AWG Maximum
Mechanical Connection	For 1/4 - 28 UNF Valve Stem
Enclosure	NEMA 2, IP42
Ambient Conditions	Operating: 0 to 140°F (-18 to 60°C); 10 to 90% RH Noncondensing 86°F (30°C) Maximum Dew Point Storage: -4 to 150°F (-20 to 65°C); 5 to 90% RH, 86°F (30°C) Maximum Dew Point
Agency Listings	UL 873 Listed, File E27734 CSA C22.2 No. 139 Certified, File LR85083