

VA-715x Series

Electric Valve Actuator



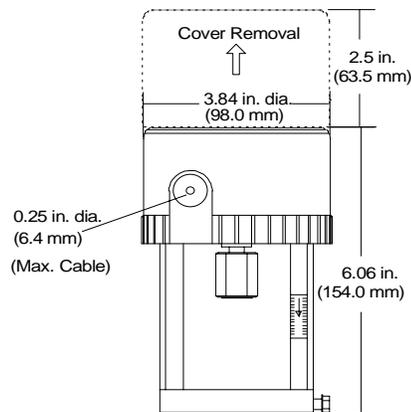
VA-715x Electric Valve Actuator

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. stroke in heating, ventilating, and air conditioning 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. In addition, the VA-715x Series can be field mounted to VB-3766, 3966, and 4332 bronze flare valve bodies.



Dimensions in. (mm)

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 factory mounted options, refer to *Electric Valve and Actuator Selection Charts*. For VG7000 Series Valve options, refer to *VG7000 Series Bronze Valves, 1/2 Through 2 in. (15 to 51 mm), Two-Way and Three-Way with Electric Actuators*.

Repair Parts

Unit replacement only.

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 2000 Ohm \pm 25%, 1/4 Watt, Over 3/4 in. (19 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 Non-Condensing 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

To Order

Refer to the selection chart below for ordering 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