

# VC Valve Actuators

## VC Series Two-position Actuators



Control central heating and/or cooling systems, fan coil systems, radiators and convectors. Depending on the model selected, it can be controlled by either a low or line voltage SPST or SPDT controller such as a room thermostat.

- Use with two-way or three-way valves
- Minimal actuator power consumption
- Quick-connect or one meter cable electrical connections available
- Quick and easy replacement of moving parts
- Actuator head installation does not require draining the system
- On/Off models with six second nominal timing
- Use two-position actuators with 1000 Series 2 way and 6000 Series 3-way VC valve bodies only
- All VC Series actuator-valve combinations provide 60 psi close-off

**Actuator Type:** Valve

**Fail Safe Mode:** Stays in place

**Cable Entry:** Molded strain relief, conduit clamp

**Dimensions, Approximate:** 2.8 in. high x 3.7 in. wide x 2.7 in. deep (70 mm high x 94 mm wide x 68 mm deep)

**External Auxiliary Switches Available:** —

**Electrical Protection:** Double Insulated

**Ingress Protection Rating:** IP40

**Frequency:** 60 Hz

**Timing (seconds):** Nominal Driving @ 60 Hz: 6 sec.

**Manual operation:** Lever

**Mounting:** Direct Coupled

**Shaft Adapter Type:** Self-alignment

**Stroke:** 0.4 in. (10 mm)

**Maximum Differential Pressure Ratings (Close-off):** 60 psid

**Materials:** Plastic housing

**Operating Humidity Range (% RH):** 5 to 95% RH, non-condensing

**Medium Temperature:** 203 F (95 C)

**Ambient Temperature Range:** 32 F to 150 F (0 C to 65 C)

**Temperature Ratings (Shipping):** -40 F to +150 F (-40 C to +65 C)

**Storage Temperature Range:** -40 F to +150 F (-40 C to +65 C)

**Weight:** 0.75 lb (0.34 kg)

**Approvals**

**Canadian Standards Association:** CSA Certified: LR1322-367

**CE:** 89/336/ECC, 73/23/EEC

**Underwriters Laboratories, Inc:** UL Recognized, File# MH11826

| Product Number | Control Signal      | Type of Internal Auxiliary Switch | Switch Ratings                                                                                    | Power Consumption (Driving) | Supply Voltage | Cable Entry                         | Electrical Connections |        |        | Type of Internal Auxiliary Switch | Number of Internal Auxiliary Switch | Comments | Used With                                                 | Includes                     |
|----------------|---------------------|-----------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------|----------------|-------------------------------------|------------------------|--------|--------|-----------------------------------|-------------------------------------|----------|-----------------------------------------------------------|------------------------------|
|                |                     |                                   |                                                                                                   |                             |                |                                     | Type                   | Length |        |                                   |                                     |          |                                                           |                              |
|                |                     |                                   |                                                                                                   |                             |                |                                     |                        | (inch) | (m)    |                                   |                                     |          |                                                           |                              |
| VC2114ZZ11/U   | SPDT; Two position  | —                                 | —                                                                                                 | 6 VA                        | 24 Vac         | Molded strain relief, conduit clamp | Plenum-rated cable     | 5 ft.  | 1.5 m  | —                                 | 0                                   | —        | VC Series Valves, 1000 Series 2-way and 6000 Series 3-way | Flexible conduit adapter     |
| VC2714ZZ11/U   | On/Off switch; SPDT | SPDT                              | 2.2A (5 to 110 Vac)/ 1.0A (110 to 277Vac) Inductive; Min. DC switching capability: 5 mA @ 24 Vac. | 6 VA                        | 24 Vac         |                                     | Plenum-rated cable     | 5 ft.  | 1.5 m  | SPDT                              | 1                                   | —        |                                                           | 3/8 in. flex conduit adapter |
| VC4011ZZ11/U   | Two position ; SPST | —                                 | —                                                                                                 | 6 VA                        | 100 to 130V    |                                     | Molded strain relief   | Cable  | 39 in. | 1 m                               | —                                   | 0        | —                                                         | VC Series Valve              |
| VC4013ZZ11/U   | Two position ; SPST | —                                 | —                                                                                                 | 6 VA                        | 200 to 240V    | Cable                               |                        | 39 in. | 1 m    | —                                 | 0                                   | —        | VC Series Valves, 1000 Series 2-way and 6000 Series 3-way | —                            |
| VC8111ZZ11/U   | Two position ; SPST | —                                 | —                                                                                                 | 6 VA                        | 24 Vac         | Cable                               |                        | 39 in. | 1 m    | —                                 | 0                                   | —        |                                                           | —                            |
| VC8114ZZ11/U   | Two position ; SPST | —                                 | —                                                                                                 | 6 VA                        | 24 Vac         | Molded strain relief, conduit clamp | Plenum-rated cable     | 5 ft.  | 1.5 m  | —                                 | 0                                   | —        |                                                           | Flexible conduit adapter     |