

## APPLICATION

The 20-0008 actuator is used for AccuValve® applications that require high-speed response over a control range of 0 to 10 volts and will "fail in place" when power is removed.

## DIMENSIONS

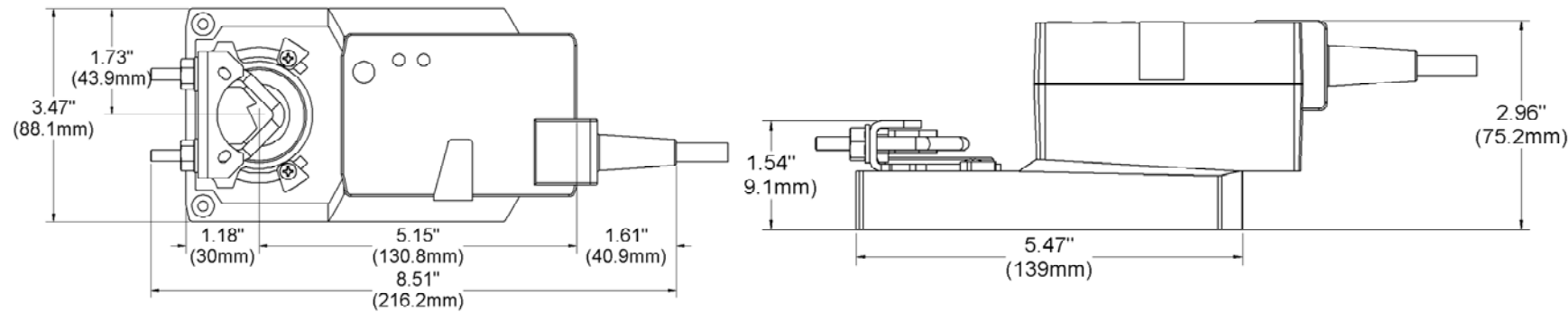


Figure 1

## INSTALLATION

Each actuator is installed, configured and tested on the AccuValve® prior to shipping from the Accutrol factory. The following instructions are provided as a reference for replacing an actuator in the field.

### Parts Required

- (1) Actuator, PN 20-0008
- (2) Screws, PN 17-0246 (#8-32 x 5/16)

### Tools Required

- 10mm wrench
- #2 Phillips Head Screw Driver

### Reference Figure 2

1. Slide actuator V-clamp over the AccuValve drive shaft.
2. Align the flat of the drive shaft with the flat of the shaft coupling.
3. Insert the two screws into the holes located on the corners of the actuator base and align with the two threaded holes located on the valve mounting bracket.
4. Secure the actuator to the bracket by tightening the 2 screws.
5. Secure the actuator coupling to the AccuValve drive shaft by tightening the (2) 10mm nuts on the v-clamp. Secure each nut evenly and torque each nut to 6 to 7 ft-lbs.

⚠ Any time clutch is pressed, actuator must be re-adapted with power applied.

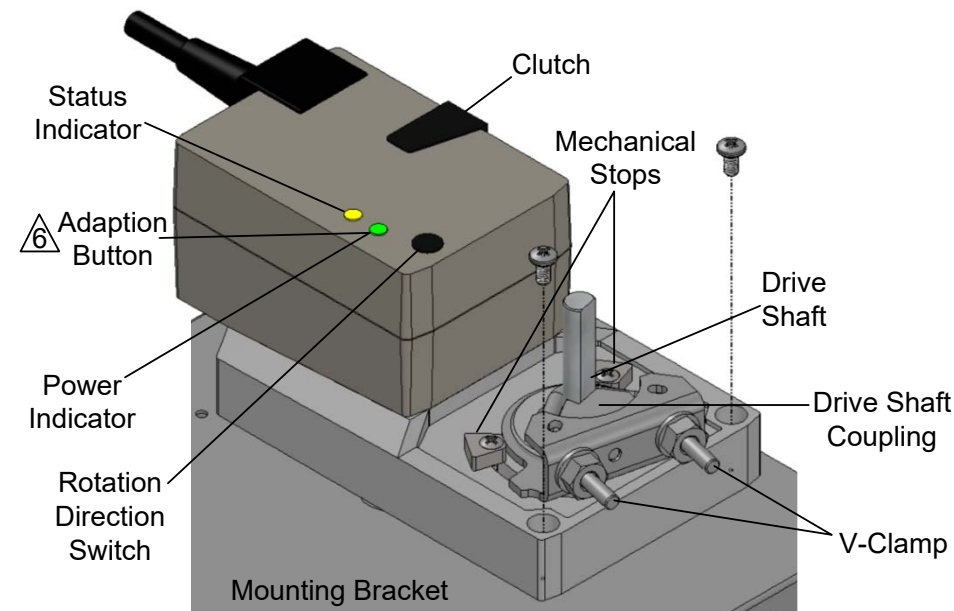


Figure 2

## TECHNICAL DATA

### ELECTRICAL

|                        |   |
|------------------------|---|
| Power Supply           | 24 VAC +/- 20% 50/60 Hz, or 24 VDC +/- 10%  |
| Power Consumption:     | 1.5 W nominal, 13 W max   |
| Transformer Sizing:    | 23 VA (Class 2 power source)  |
| Electrical Connection: | Cable, 3' Plenum, NEMA 2 (IP 54), 4-Conductor, 18 GA                                    |
| Overload Protection:   | Electronic, throughout range of rotation  |
| Control Signal:        | 0 to 10V  |
| Feedback Signal:       | 0 to 10V  |
| Input Impedance:       | 100K ohm  |
| Resolution:            | 40mV response to control signal<br>100mV response to control signal change of direction |

### MECHANICAL

|                        |   |
|------------------------|---|
| Angle of Rotation:     | Factory-set with mechanical stops (approximately 45°) |
| Running Time:          | 2 seconds full stroke                                 |
| Torque:                | 70 in-lb (8Nm)  |
| Direction of Rotation: | Reversible with switch                                |
| Manual Override:       | External push button                                  |
| Weight:                | 1.8 lbs. (0.85 kg)                                    |
| Noise Level:           | < 52 dBA  |
| Housing Material:      | UL94-5VA  |

### ENVIRONMENTAL

|                        |                                       |
|------------------------|---------------------------------------|
| Humidity:              | 5 to 95% RH non-condensing (EN 60730) |
| Operating Temperature: | -22°F to 122°F (-30°C to 50°C)        |
| Storage Temperature:   | -40°F to 176°F (-40°C to 80°C)        |
| Housing:               | NEMA 2, IP54, UL enclosure type 2     |

### AGENCY LISTINGS & QUALITY STANDARDS

cULus acc. To UL 60730-1A/-2-14  
CAN/CSA E60730-1:02  
CE acc. To 2004/108/EEC and 2006/95/EC  
QS ISO 9001

### SERVICE

No Maintenance Required

## WIRING

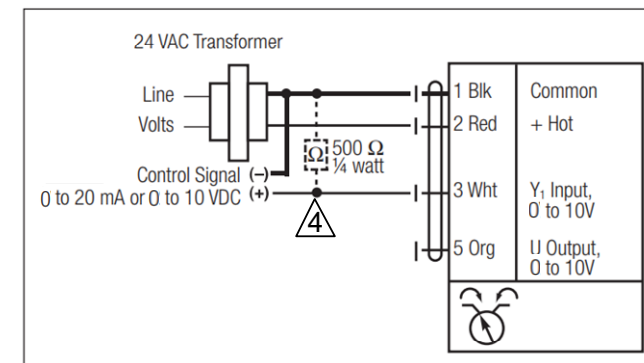


Figure 3

1. Provide overload protection and disconnect as required.

2. Actuators may be connected in parallel if not mechanically mounted to the same shaft. Power consumption and input impedance must be observed.

3. Actuators may also be powered by 24 VDC.

⚠ 500Ω resistor is only required when using current control signal