

800380 Actuator

Installation Instructions

WARNING: Actuator must be field-installed with Anti-rotation strap provided. Using tabs to screw actuator to ductwork may damage the actuator and void the warranty (see Figure 1).

FIELD NOTE: The damper or VAV box must have a ½-inch (.5") diameter shaft and the shaft must have at least 2½ inches of shaft coming out of the VAV box.

Installation Steps

1. Manually rotate the damper clockwise open and then counterclockwise closed to confirm it fully rotates without any obstruction (typically screws or damper out of roundness).

Note: Some dampers will need to be left in the opposite direction before moving on to step 2 or 6.

2. Slide the electric actuator coupler onto the damper shaft, until actuator sits flush on VAV box and tighten the nuts on the U-bolt (7/16 socket).
3. Slide the anti-rotation strap (1206149) under the actuator. The post on the anti-rotation strap must engage the slot at the base of the actuator and mark the two outer holes of the anti-rotation strap with a marker (Figure 1).
4. Loosen the nuts on the U-bolt and remove actuator from damper shaft completely.
5. Realign the anti-rotation strap to the two marks made in step 3 and screw anti-rotation strap to VAV box or ductwork (short self tapping screws not provided).
6. Repeat step 2 and making sure the post of the anti-rotation strap engages the slot at the base of the actuator and that the damper is all the way closed.
7. Wire actuator per wiring diagram (Figure 2 below).

Parts List

Qty	P/N	Description
1	800380	Electric actuator
1	1206149	Anti-rotation strap
1		Wiring document
1	1980208	Installation instructions

Tools Needed

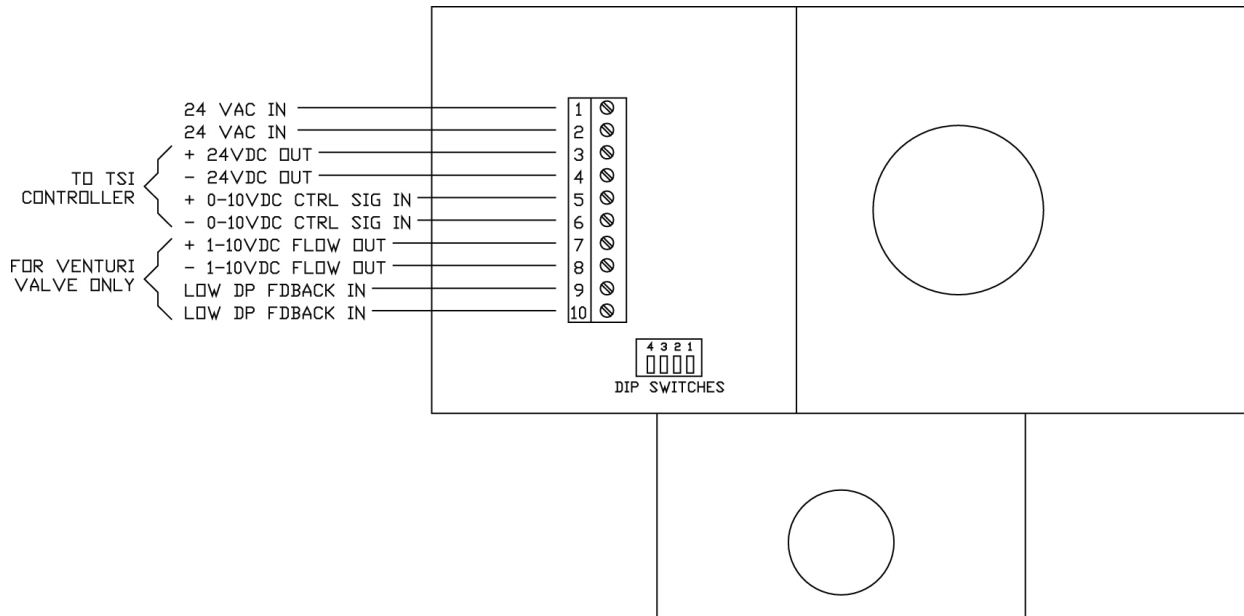
7/16-inch deep driver or socket
 Fine point permanent marker
 Screw gun and short self tapping screws



Figure 1: Electric Actuator with Anti-Rotation Strap



CAUTION: Actuator must be wired to 24 VAC only. Wiring the unit to 120 VAC will cause serious damage to the unit and void the warranty.



DIP SWITCH FUNCTIONS				
SWITCH #	FUNCTION	DEFAULT	DIP SWITCH POSITIONS	
1	DIRECTION	REVERSE	<input type="checkbox"/> OFF	DIRECT
2	INPUT SIGNAL	0-5 VDC	<input type="checkbox"/> OFF	0-10 VDC
3	INPUT SIGNAL	5-10 VDC	<input type="checkbox"/> OFF	0-10 VDC
4	ROTATION	45 DEG	<input type="checkbox"/> OFF	90 DEG

Figure 2: Electric Actuator Wiring

WARNING: Actuator must be field-installed with mounting strap provided. Using tabs to screw actuator to ductwork may damage the actuator and void the warranty.

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