

### DESCRIPTION

The electronic analog CSP-5001 VAV Flow Controller-Actuators are pressure-independent combination controller-actuators, designed primarily for use on variable-air-volume terminal units. Airflow is sensed by using a differential pressure measuring station. Designed with an onboard flow-through sensor using twin platinum resistance temperature detectors, these models are capable of controlling a velocity setpoint with an accuracy of 3%.

The CSP-5001 offers full-range flow control of VAV terminal units when used with the CTE-5100 series room thermostats. Air velocity flow control limits may be set at the thermostat or internal to the CSP-5001. The actuator section provides adjustable stops, magnetic clutch, and a gear disengagement button. Internal status LEDs indicate green for opening and red for closing. Available control options include proportional or two position wet or electric reheat, changeover, dual minimums, fan induction, dual duct, and automation interface.



### FEATURES

- Onboard flow-through sensors with twin platinum resistance temperature detectors
- Setpoint accuracy of 3%
- Adjustable stops
- Magnetic clutch
- Gear disengagement button
- Internal LED rotation status indicators
- Mount for auxiliary switch or potentiometer

### ACCESSORIES

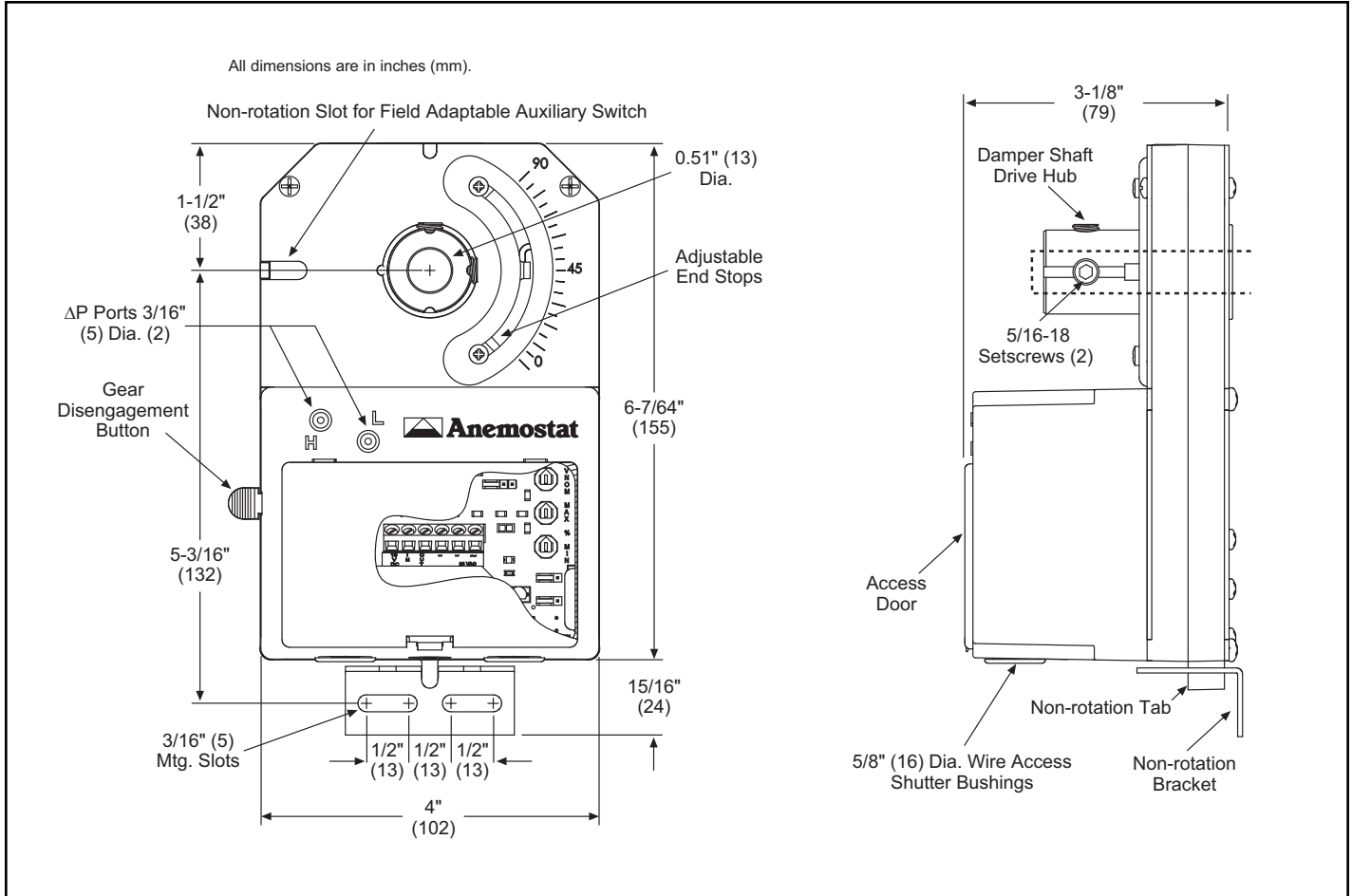
The following accessories are available:

CME-1002	Single auxiliary cam switch
CME-1004	Dual auxiliary cam switch
CME-2001	Rotary feedback pot., 10 kΩ(7.5 kΩ at 90°)
CME-2002	Rotary feedback pot., 1 kΩ(750 Ω at 90°)
HMO-4518	Snap-in connector for 1/2" flexible metal conduit
HMO-4520	Compression connector for plenum cable
HMO-4526	Female connector for 1/2" conduit
HMO-5001	Test leads

All dimensions are in inches.

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**SPECIFICATIONS**

<b>Supply Voltage</b>	24 VAC -15/+20%, 50/60 Hz
<b>Input Power</b>	4 VA max.
<b>Output Supply</b>	16 VDC (22 mA)
<b>Output Torque</b>	50 in. lb. min., 70 in. lb. max. (5.6 N·m min., 7.9 N·m max.)
<b>Velocity Range</b>	Dependent on DP pickup, tubing size/length, and connections
<b>Velocity Output</b>	0 to 10 VDC (0 to 100% flow)
<b>Angular Rotation</b>	0° to 95° (both end stops adjustable)
<b>Stroke Time</b>	18° per minute @ 60 Hz, 15° per minute @ 50 Hz
<b>Reset Voltage</b>	0 to 10 VDC
<b>Reset Limits</b>	Adjustable, 0 to 100%
<b>Mounting</b>	Direct to 1/2" (13 mm) diameter shaft

<b>Connections</b>	Wire clamp type, 14 to 22 AWG, Cu
<b>Material</b>	Flame-retardant polymer, UL94-5V plenum-rated, black housing with white cover
<b>Weight</b>	2.4 lbs. (1 kg.)
<b>Temperature Limits</b>	Operating 32° to 120° F (0° to 49° C) Shipping -40° to 140° F (-40° to 60° C)

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