



## VAMS24-70-T — Submittal/Technical Data

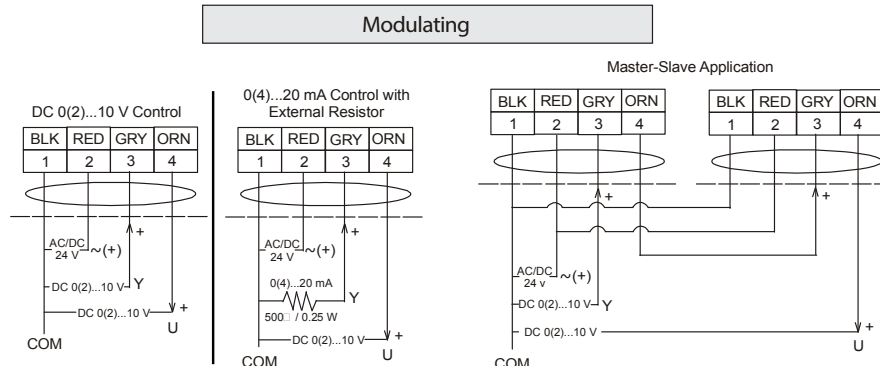
03/08/16

70 lb-in. — Direct Mount — Spring Return — Modulating

### Specifications:

Power Supply	AC 24 V (AC 19.2 V to 28.8 V) at 50/60 Hz: Class 2 or SELV, 7.9 VA Running, 5.5 VA Holding Position DC 24 V (DC 21.6 V to 28.8 V): Class 2 or SELV, 3.5 W Running, 1.9 W Holding Position Minimum Transformer Size: 8 VA per Actuator		
Input Signal	Factory Set at DC 0 to 10 V, CW Rotation with Signal Increase;Selectable DC 0 (2) to 10 V or 0 (4) to 20 mA with Field Furnished 500 Ohm, 0.25 W Minimum Resistor; Switch Selectable Direct or Reverse Action with Signal Increase		
Control Input Impedance	100k Ohms, Current Input: 500 Ohms with Field Furnished 500 Ohm Resistor		
Feedback Signal	DC 0 (2) to 10 V for Desired Rotation Range up to 95°, Corresponds to Rotation Limits, 0.5 mA at 10 V Maximum		
Spring Return	Direction is Selectable with Mounting Position of Actuator: Actuator Side A is away from damper or valve: CCW Spring Return Actuator Side B is away from damper or valve: CW Spring Return		
Equipment Rating	Class 2 or Safety Extra-Low Voltage (SELV)		
Rotation Range	Maximum Full Stroke: 95° Adjustable Stop: 35 to 95° Maximum Position		
Torque	70 lb-in. (8 N-m)		
Time: 90° of Rotation	Power On (Running) 150 Seconds Constant for 0 to 70 lb-in (8 N-m) Load, At All Operating Conditions Power Off (Spring Running) 17 to 25 Seconds for 0 to 70 lb-in (8 N-m) Load, at Room Temperature 22 Seconds Nominal at Full Rated Load, 94 Seconds Maximum with 70 lb-in (8 N-m) Load, at -40°F (-40°C)		
Enclosure	NEMA 2 (IP54) for all mounting orientations		
Manual Override	Hex Head Screw		
Ambient Conditions	Standard Operating	-40 to 140°F (-40 to 60°C); 90% RH Maximum, Noncondensing	
	Storage	-40 to 185°F (-40 to 85°C); 95% RH Maximum, Noncondensing	
Electrical Connections	48 in. UL 758 Type AWM Halogen-Free Cable with 18 AWG (0.85 mm²) Conductors & 0.25 in. (6 mm) Ferrule Ends		
Conduit Connections	Integral Connectors for 3/8 in. (10 mm) Flexible Metal Conduit		
Mechanical Connections	Round Shafts	5/16 to 5/8 in. (8 to 16 mm)	
	Square Shafts	1/4 to 1/2 in. (6 to 12 mm)	
Life Cycle	60,000 Full Stroke Cycles with 70 lb-in. (8 N-m) Load — 1,500,000 Repositions with 70 lb-in. (8 N-m) Load		
Noise Rating	Running	< 35 dBA at 70 lb-in (8 N-m) Load, at a Distance of 39-13/32 in. (1 m)	
	Holding	< 20 dBA at a Distance of 39-13/32 in. (1 m)	
	Spring Returning	<52 dBA at 70 lb-in. (8 N-m) Load - (All at a Distance of 39-13/32 in. (1 m))	
Dimensions	Actuator Only - 6.33 (L) x 3.90 (W) x 2.26 (H)		
Weight	Actuator Only - 3.43 lb.		
Agency Certification	UL Listed, CCN XAPX, File E27734; to UL 60730-1A: 2003-08, Ed. 3.1, Automatic Electrical Controls for Household and Similar Use; and UL 60730-2-14: 2002-02, Ed. 1, Part 2, Particular Requirements for Electric Actuators.		

### Wiring: (Cable)



**NOTE: WARNING:** All VAS-70 Series actuators are designed for use only in conjunction with operating controls. Where an operating control failure would result in personal injury and/or loss of property, it is the responsibility of the installer to add safety devices or alarm systems that protect against, and/or warn of, control failure.

To avoid excessive wear or drive time on the motor, use a controller and/or software that provides a time-out function to remove the signal at the end of rotation (stall).

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the nearest Taco office. Taco shall not be liable for damages resulting from misapplication or misuse of its products.