



## VAS24-70-T(A) — Submittal/Technical Data

02/07/19

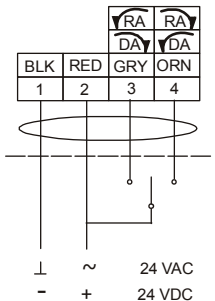
70 lb-in. — Direct Mount — Spring Return — On/Off or Floating — Auxiliary Switch Option

### Specifications:

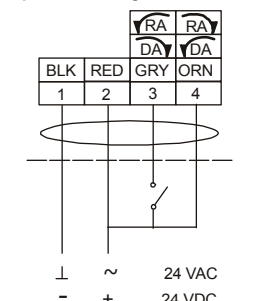
Power Supply	AC 24 V (AC 19.2 V to 28.8 V) at 50/60 Hz: Class 2 or SELV, 7.9 VA Running, 5.5 VA Holding Position DC 24 V (DC 21.6 V to 28.8 V): Class 2 or SELV, 3.5 W Running, 1.9 W Holding Position Minimum Transformer Size: 8 VA per Actuator
Input Signal	AC 19.2 to 28.8 V at 50/60 Hz or DC 24 V +20%/-10%, Class 2 or SELV, Minimum Pulse Width: 500 ms
Auxiliary Switch Rating	(-A) Models) Two Single-Pole, Double-Throw (SPDT), Double-Insulated Switches with Gold over Silver Contacts: AC 24 V, 50 VA Pilot Duty
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
Electric Stall Detection	Protects from overload at all angles of rotation
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 Returning) 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 mm <sup>2</sup> ) 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. (3.8 lb. w/ Aux. Switches)
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)

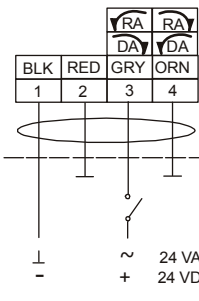
Floating Control, Four Wire



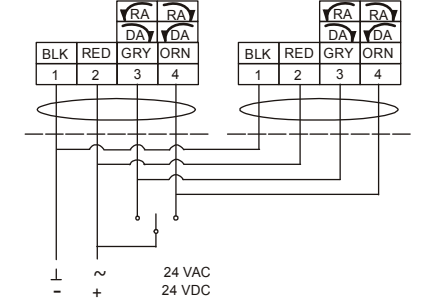
Open/Close, Single Wire Control



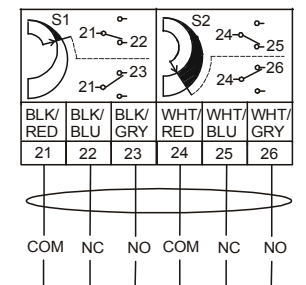
On/Off Control, Two Wire



Floating Control, Multiple Actuators with One Transformer



(-A) Auxiliary Switches



**NOTE: WARNING:** All DS-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 Bray office. Bray controls shall not be liable for damages resulting from misapplication or misuse of its products.