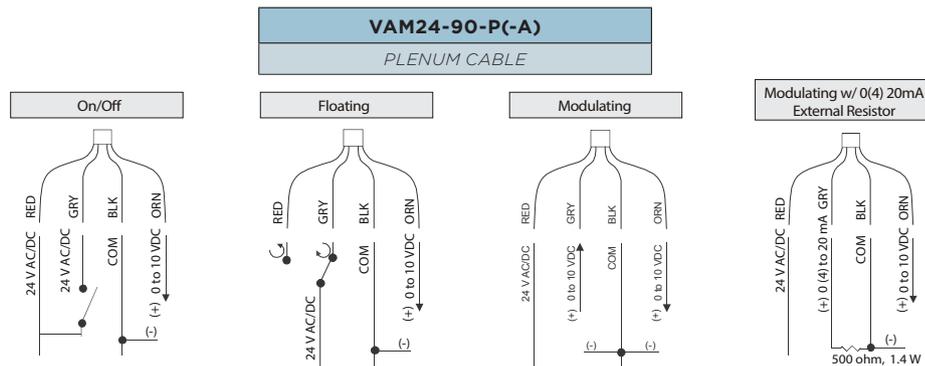


Non-Spring Return Commercial Actuators - VAM24-90 Series



Technical Specifications - VAM24-90 Series Actuator				
Type	Actuator Models	VAM24-90-P Non-Spring Return - On/Off, Floating & Modulating	VAM24-90-P-A Non-Spring Return - On/Off, Floating & Modulating with Auxillary Switches (-A)	
	Electrical	Torque	90 lb-in. (10 Nm)	
Operating Voltage		24 VAC ±20% at 50/60 Hz 24 VDC ±10%, 1.3 W running.		
Power Consumption		4.7 VA		
Transformer Sizing Requirements		≥6.5 VA		
Input Signal Adjustments		AC 19.2 V to 28.8 V at 50/60 Hz or DC 24 V ±10%	DC 0 (2) to 10 V or 0 (4) to 20 mA with field furnished 500 ohm 1/4 W resistor Offset: DC 0 V to 10 V / SPAN: DC 2 V to 10 V	
Control Impedance		4.7k Ohm	100k Ohm	
Equipment Rating		Class 2 or Safety Extra-Low Voltage (SELV)		
Feedback Signal		N/A	0 to 10 VDC or 2 to 10 VDC, (with adjustable Span)	
Electrical Connection		120 in. (3.05 m) UL 444 type CMP plenum rated cable with 19 AWG cable (0.75 mm ²) conductors and 0.25 in. (6 mm) ferrule ends		
Conduit Connection		1/2 in. NPSM (13 mm) threaded conduit connectors with optional conduit connector		
Operation	Manual Override	External Push Button		
	Time Out Feature	Electronic stall detection ensures higher reliability by deactivating the actuator motor when a stall condition is detected		
	Runtime for 90° of Rotation	35 seconds, constant for all operating conditions 35 seconds, Runtime Auto-Calibration		
	Rotation Range	Mechanically limited 35° to 95° (±3°) in 5° increments		
	Cycle Life	100,000 Full Stroke Cycles; 2,500,000 repositions at rated running torque		
	Mechanical Connections	Round Shafts - Up to 1/2 in. (13 mm) Square Shafts - Up to 3/8 in. (10 mm)		
Environmental	Enclosure	NEMA 5/IP54		
	Ambient Conditions (Non-Condensing)	Operating — -22 to 140°F (-30 to 60°C); 95% RH Max. Storage — -40 to 185°F (-40 to 85°C); 95% RH Max.		
	Audible Noise Rating	<35 dBA Nominal at 39-13/32 in. (1 meter)		
	Dimensions	6.7 x 3.1 x 2.4 in. (169 x 81 x 62 mm)		
	Weight	2 lb (0.9 kg)		
Conditions	Agency Certifications	United States - UL Listed, CCN XAPX, File E27734; to UL 60730-1: Automatic Electrical Controls for Household and Similar Use, Part 1; and UL 60730-2-14: Part 2, Particular Requirements for Electric Actuators. Plenum Rated (UL 2043). Suitable for use in Other Environmental Air Space (Plenum) in accordance with section 300.22 (c) of the National Electrical Code. Canada - UL Listed, CCN XAPX7, File E27734; to CAN/CSA E60730-1:02: Automatic Electrical Controls for Household and Similar Use, Part 1; and CAN/CSA-E60730-2-14, Particular Requirements for Electric Actuators. Europe - CE Mark—Johnson Controls declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive and the Low Voltage Directive. Australia/New Zealand - RCM Mark, Australia/NZ Emissions Compliant		
	Warranty	5 Years limited from time of shipment.		



Warning - These 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.

Disclaimer - 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.