

VA-908x Series

# VA-908x Series Electric Rotary Actuators for Two-Position and Modulating Service

## Description

The VA-908x Series Electric Rotary Actuators for Two-Position and Modulating Service are designed for direct mounting in an upright position on VF Series Butterfly Valves. The VA-908x is available in two different sizes, for two-position and modulating service.

All models feature two independently adjustable, travel limit switches for the open and closed position, each factory-set for 90° valve rotation. Powered by a rugged, high-torque, single-phase reversible motor, the VA-908x actuators are designed to withstand stall torque for reliable performance in even the most demanding applications. The watertight actuator enclosure meets National Electrical Manufacturers' Association (NEMA) 4, 4X, and 6 ratings, as well as IP67 standards.

Refer to the *VA-908x Series Electric Rotary Actuators for Two-Position and Modulating Service Product Bulletin (LIT-12011565)* for important product application information.



**VA-908x Series Electric Rotary Actuator for Two-Position and Modulating Service Mounted on a VF Series Butterfly Valve**

## Features

- built-in motor overload protection
- output torques of 8,850 or 13,275 lb-in (1,000 or 1,500 N-m)
- visual position indication and manual override
- factory-set limit switches
- CSA certified to USA and Canadian standards
- rugged, die-cast aluminum NEMA 4, 4X, 6, and IP67 enclosure

## Repair Information

If the VA-9070 Series Electric Rotary Actuators for Two-Position and Modulating Service fails to operate within its specifications, see [Accessories](#).

## Selection Charts

Johnson Controls® Actuator Code Number	Johnson Controls Actuator Sub-Code	Bray® Series Number	Service	Output Torque Value <sup>1</sup> lb-in (N-m)	Stroke Time in Seconds at 60 Hz	120 VAC Current Rating in Amperes		Shipping Weight lb (kg)
						Run	Lock Rotor	
VA-9087-02	-927	S74-0890 On-Off	Two-Position	8850 (1000)	46	3.2	10.0	80 (36.3)
VA-9088-02	-928	S74-1330 On-Off	Two-Position	13275 (1500)	46	4.0	10.0	80 (36.3)
VA-9087-01	-907	S74-0890 Modulating	Modulating	8850 (1000)	46	3.2	10.0	124 (56.3)
VA-9088-01	-908	S74-1330 Modulating	Modulating	13275 (1500)	46	4.0	10.0	124 (56.3)

1. Torque values **do not** include a safety factor.

## VA-908x Series Electric Rotary Actuators for Two-Position and Modulating Service

### Accessories

Description	Code Number
Servo Control Kits, for all VA-908x Series Electric Actuators	VA-908x-601
<b>Mounting and Adaptor Kits for VF Series Standard-Pressure and Standard-Temperature Two-Way Valves</b>	
Used when Mounting VA-9087 Series Electric Rotary Actuators on 16 in. VF Series Butterfly Valves	VA-9087-1600
Used when Mounting VA-9087 Series Electric Rotary Actuators on 18 and 20 in. VF Series Butterfly Valves	VA-9087-2000
Used when Mounting VA-9088 Series Electric Rotary Actuators on 16 in. VF Series Butterfly Valves	VA-9088-1600
Used when Mounting VA-9088 Series Electric Rotary Actuators on 18 and 20 in. VF Series Butterfly Valves	VA-9088-2000
<b>Mounting and Adaptor Kits for VF Series High-Pressure, High-Temperature Class 150 Two-Way Valves</b>	
Used when Mounting VA-9087 Series Electric Rotary Actuators on 14 in. Class 150 High Performance Butterfly Valves	VA-9087-1410
Used when Mounting VA-9088 Series Electric Rotary Actuators on 16 in. Class 150 High Performance Butterfly Valves	VA-9088-1610
<b>Mounting and Adaptor Kits for VF Series High-Pressure, High-Temperature Class 300 Two-Way Valves</b>	
Used when Mounting VA-9087 Series Electric Rotary Actuators on 10 in. Class 300 High Performance Butterfly Valves	VA-9087-1230
Used when Mounting VA-9088 Series Electric Rotary Actuators on 12 in. Class 300 High Performance Butterfly Valves	VA-9088-1230
Used when Mounting VA-9088 Series Electric Rotary Actuators on 14 in. Class 300 High Performance Butterfly Valves	VA-9088-1430
<b>Limit Switch Kit</b>	
For All Models of VA-9087 and VA-9088 Series Electric Rotary Actuators	VA-908x-604
<b>Thermostat/Heater Kit</b>	
For All Models of VA-9087 and VA-9088 Series Electric Rotary Actuators	VA-908x-602
<b>Feedback Potentiometer Kit</b>	
0 to 1,000 Ohms for All Models of VA-9087 and VA-9088 Series Electric Rotary Actuators	VA-908x-603

### Technical Specifications

VA-908x Series Electric Rotary Actuators Technical Specifications		
Service	Non-Spring Return	VA-9087-01 Proportional
		VA-9087-02 On/Off (Floating)
		VA-9088-01 Proportional
		VA-9088-02 On/Off (Floating)
Power Requirements	VA-9087	120 VAC, 50/60 Hz, 180 W 3.2 A running current 12.0 A starting current 10.0 A locked rotor/stall current
	VA-9088	120 VAC, 50/60 Hz, 220 W 4.0 A running current 14.0 A starting current 10.0 A locked rotor/stall current
Duty Cycle	VA-908x-02	30%
	VA-908x-01	75%
Input Signal	VA-908x-02	120 VAC, 50/60 Hz
	VA-908x-01	Switch Selectable: 2 to 10 VDC, 4 to 20 mA, or 1 to 5 VDC
		Switch Selectable direct or reverse action with increasing signal Switch Selectable position on loss of control signal
Feedback Signal	VA-908x-01	Switch Selectable 2 to 10 VDC, or 4 to 20 mA
Ambient Operating Temperature Range		-21 to 148°F (-30 to 65°C)
Agency Listings		CSA CE Mark