

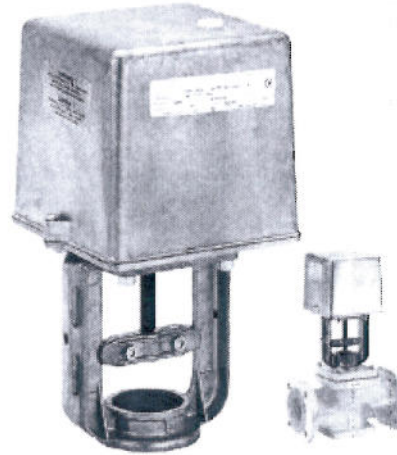
## RA-3000 Electric Actuator

### Introduction

The RA-3000 series synchronous motor-driven reversible actuators are available for 3-point (floating) or with electric positioner for 0...10 V control. They feature factory calibrated pressure switches to provide specified close-off ratings.

These actuators are available in three sizes with 1600 N, 1800 N and with 3000 N nominal force and can be used with JC flanged valves according to maximum close-off pressure ratings specified.

Factory fitted options, such as 2k $\Omega$  feedback potentiometer, auxiliary switches and hand crank are available.



RA-3000 Actuator with VG8000N valve

### Features and Benefits

<input type="checkbox"/> Uses synchronous motor with pressure switches	Fixed close-off force Constant running time
<input type="checkbox"/> Special clamp coupler quick-fit system	Provides quick and easy mounting of the actuator on valves with slotted stem. Cuts installation costs.
<input type="checkbox"/> Models for 3-point and proportional 0...10 VDC control	Allows optimum choice of control signal
<input type="checkbox"/> Positioner with adjustable starting point, span, and direct/reverse action	Provides flexibility in application Allows easy sequencing from only one output signal
<input type="checkbox"/> Active 0...10 VDC position feedback on proportional models	Provides active signal for independent position monitoring
<input type="checkbox"/> Optional auxiliary switches and feedback potentiometer available	Provides potential free contacts for independent monitoring of the actuator's position
<input type="checkbox"/> Optional hand crank	Allows manual positioning independent of power supply

## Ordering data

RA-3				-7		
<b>Actuator Force and Supply voltage*)</b>						
126 1600 N 24 V, 50/60 Hz						
127 1600 N 230 V, 50/60 Hz						
226 1800 N 24 V, 50/60 Hz						
227 1800 N 230 V, 50/60 Hz						
325 3000 N 24 V, 60 Hz						
<b>326 3000 N 24 V, 50 Hz</b>						
327 3000 N 230 V, 50 Hz						
328 3000 N 230 V, 60 Hz						
<b>Accessories, factory mounted</b>						
00 None						
03 Two auxiliary switches and 2 kΩ feedback potentiometer						
05 Two auxiliary switches and 135 Ω feedback potentiometer						
<b>41 Built-in electronic Positioner 0...10 VDC and two auxiliary Switches (only 24 VAC models)</b>						
<b>Hand crank</b>						
0 None						
<b>1 With hand crank</b>						

\*) For other supply voltage and frequency, please contact your Johnson Controls supplier.

## Ordering Procedure

The valves and actuators can be ordered separately or factory mounted. When factory mounted, please add "+M" behind the order code for the actuator.

### For example:

For a 2-way valve, DN 65,  $k_{VS}$  63, PN 16 plus actuator with electric positioner 0...10 V input, 24 VAC / 50 Hz supply, order:

Item 1 **VG82G1S1N** (valve body)  
Item 2 **RA-3041-7326** (actuator)

Alternatively, if actuator is requested to be factory mounted, order:

Item 1 **VG82G1S1N** (valve body)  
Item 2 **RA-3041-7326+M** (actuator)

## Accessory Kits for field mounting

<b>EQ-5687-7011</b>	Two Auxiliary Switches and Feedback Potentiometer 2 kΩ
<b>282 3501 114</b>	Cable conduit adapter PG 13.5 (Ø7...11mm) DIN 46320 - FS

## Repair parts

<b>EG-0572-7041</b>	Electronic Positioner EPOS 4 plug-in module for field replacement
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## Actuator - Valve combinations

The RA-3000 electric actuators are specifically designed to be used in conjunction with the VBB, VBD, VBF and VG8000N valve series. The ordering data for these valve bodies are as follows:

- **VBB series** (PN 16 and 25 pressure balanced flanged valves)

**2-way PDTC DN 50...150**

- **VBD series** (PN 25 flanged valves)

**2-way PDTC DN 15...150**

**3-way mixing DN 15...150**

- **VBF series** (PN 6 & PN 10 flanged valves)

**2-way PDTO DN 65...100**

**3-way mixing DN 65...100**

- **VG8000N series** (PN16 flanged valves)

**2-way PDTC DN 15...150**

**2-way PDTO DN 15...40**

**3-way mixing DN 15...150**

**3-way diverting DN 15...150**

- **VG8000V series** (PN16 flanged valves Max fluid temperature 140°C)

**2-way PDTC DN 15...150**

**3-way mixing DN 15...150**

- **VG9000 series** (PN 6 & PN 10 flanged valves)

**2-way PDTO DN 80 & 100**

**3-way mixing DN 80 & 100**

Please refer to the relevant flanged valve product bulletins for complete ordering information.