

# V-3000-8011, V-3000-8003 Pneumatic Valve Actuators

## Description

The V-3000-8011 and V-3000-8003 Pneumatic Valve Actuators are designed to accurately position steam or water valve modulating plugs in response to a pneumatic signal from a controller. A V-9502 Valve Pilot Positioner can be ordered separately (V-3000-8011 only) for use in applications where sequential operation is desired or additional positioning power is necessary. The actuators have a molded synthetic rubber diaphragm design. This molded diaphragm provides a constant effective area throughout the actuator stroke. All parts are protected by a sturdy die-cast aluminum housing.

Refer to *V-3000-8011 (Exposed) and V-3000-8003 (Enclosed) Pneumatic Valve Actuators Product Bulletin (LIT-977252)* for important product information.

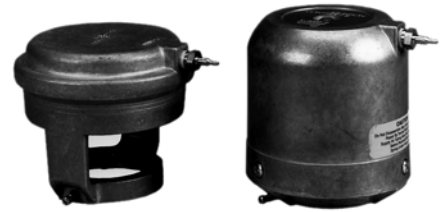
## Features

- universal valve mounting design is compatible for use on all Johnson Controls® valves with V-3000 mounting configurations
- rolling diaphragm design provides constant effective diaphragm area throughout stroke for optimal force output
- integral stroke position indicator provides visual reference to valve position

## Applications

Used on the following: VG7000 Series, VTM Series, V-3752 Series, V-3754 Series, V-3762 Series, V-3766 Series, V-3966 Series, V-3974 Series, V-4324 Series, V-4332 Series, V-4334 Series, and V-4440 Series.

The V-3000-8011 and V-3000-8003 can replace the V-3000-1 and V-3000-2; however, the reverse is not true.



**Exposed V-3000-8011 and V-3000-8003 Pneumatic Valve Actuators**

## Repair Information

If the V-3000 Series Actuator fails to operate within its specifications, replace the unit. See the Accessories selection chart for replacement diaphragms for the V-3000-8003 enclosed model. For a replacement actuator, contact the nearest Johnson Controls representative.

## Selection Charts

### V-3000 Series Actuators

Code Number	Description
V-3000-8011	Exposed Yoke
V-3000-8003	Enclosed Yoke

### Accessories for V-3000 Series Actuators (Ordered Separately)

Code Number	Description
<b>Exposed Model (V-3000-8011) Accessories</b>	
V-9502-90	Pilot positioner (less spring), mounts to V-3000-8011 only.
V-9502-6801	<b>Pilot positioner springs:</b> 8 mm lift (5/16 in. stroke) - 3 psi (21 kPa) span 13 mm lift (1/2 in. stroke) - 5 psi (34 kPa) span 19 mm lift (3/4 in. stroke) - 10 psi (69 kPa) span
V-9502-6802	<b>Pilot positioner springs:</b> 8 mm lift (5/16 in. stroke) - 8 psi (55 kPa) span 13 mm lift (1/2 in. stroke) - 12 psi (83 kPa) span
V-9502-6803	<b>Pilot positioner springs:</b> 19 mm lift (3/4 in. stroke) 4 psi span
	<b>Valve spring kits:</b> Refer to the specific valve product for spring kit code numbers
<b>Enclosed Model (V-3000-8003) Accessories</b>	
V-3000-6001	Replacement diaphragm for V-3000-8003 only.

## Technical Specifications

### V-3000 Series Actuators

<b>Maximum Control Pressure</b>	25 psig (172 kPa)
<b>Air Connection</b>	Barb Fitting: 5/32 or 1/4 x 1/8 National Pipe Thread (NPT)
<b>Ambient Operating Temperature Limits</b>	-29 to 66°C (-20 to 150°F)
<b>Maximum Storage Temperature</b>	66°C (150°F)
<b>Effective Diaphragm Area</b>	51.2 cm <sup>2</sup> (8 in. <sup>2</sup> )
<b>Materials</b>	<b>Housing:</b> Die-cast Aluminum <b>Diaphragm:</b> Synthetic Rubber
<b>Shipping Weight</b>	<b>V-3000-8011:</b> 0.40 kg (0.9 lb) <b>V-3000-8003:</b> 0.5 kg (1 lb)