

## V-4000-1 Small Pneumatic Actuator for Small Control Valves

### Description

The V-4000-1 Small Pneumatic Actuator accurately positions the modulating plugs of chilled- or hot-water control valves in response to a pneumatic signal from a controller.

Refer to the *V-4000 Small Pneumatic Actuator for Small Control Brass Valves Product Bulletin (LIT-977255)* for important product application information.

### Applications

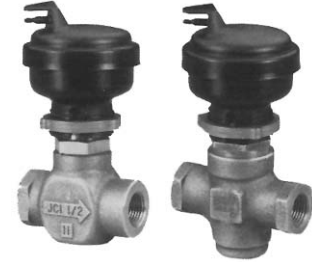
Direct replacement for all oval top (V-3800 Series) actuators (except V-3801-8001 on VG7000 Series valves).

### Features

- directly replaces field installed V-3854 and V-3800 models
- tailored for small terminal unit valve applications
- direct replacement for oval top actuators (VT Series and older oval top series)

### Repair Information

If the V-4000-1 Pneumatic Actuator fails to operate within its specifications, replace the unit. For a replacement actuator, contact the nearest Johnson Controls® representative.



V-4000-1 Actuators

### Selection Chart

Code Number	Description
V-4000-1	Small Pneumatic Actuator

### Technical Specifications

V-4000-1 Small Pneumatic Actuator for Small Control Valves		
<b>Ambient Temperature Limits</b>		-20 to 150°F (-29 to 66°C)
<b>Relative Humidity</b>		5 to 90% RH
<b>Fluid Operating Temperature Limits</b>		35 to 200°F (2 to 93°C)
<b>Storage Condition Limits</b>		-20 to 150°F (-23 to 66°C) 5 to 95% RH
<b>Dimensions (H x Diameter)</b>		3.27 x 2.84 in. (83.1 x 72.1 mm)
<b>Maximum Control Pressure</b>		30 psig (210 kPa)
<b>Control Signal Air Connection</b>		Dual Barbed Fitting for 5/32 or 1/4 in. O.D. Tubing
<b>Effective Diaphragm Area</b>		4 sq. in. (2,581 sq. mm)
<b>Materials</b>	<b>Yoke and Cover</b>	Glass-Reinforced Nylon
	<b>Piston</b>	Glass-Reinforced Nylon
	<b>Diaphragm</b>	Fabric-Reinforced Synthetic Rubber
	<b>Retaining Nut</b>	Chromate-Coated Zinc
<b>Available Spring Ranges</b>		3 to 6, 4 to 8, and 9 to 13 psi <sup>1</sup>

1. A spring is assembled with the valve body, not in the actuator. For spring kits to field mount V-3802-1 to valve bodies, refer to the *Valve Spring Kits Sorted by Valve Code Number Catalog Page (LIT-1924395)*.