

## V-3801-8001 Pneumatic Valve Actuator

### Description

The V-3801-8001 Pneumatic Valve Actuator is designed to accurately position steam or water valve modulating plugs in response to a pneumatic signal from a controller. The small oval top makes the V-3801-8001 ideally suited for 1/2 and 3/4 in. VG7000 Series valve applications with restricted mounting space. This actuator has a molded synthetic rubber diaphragm design. The molded diaphragm provides a constant effective area throughout the actuator stroke. All parts are protected by a sturdy die-case aluminum housing.

Refer to the *V-3801-8001 Pneumatic Valve Actuator Product Bulletin (LIT-977253)* for important product application information.

### Features

- compact design fits into restricted mounting spaces
- single set screw design provides easy assembly
- rolling diaphragm design provides constant effective diaphragm area throughout stroke for optimal force output
- easily field mounted to the valve bonnet with a single set screw, refer to the accessories chart.

### Applications

The V-3801-8001 Valve Actuator is used on 1/2 and 3/4 in. VG7000 Series Valves. The V-3801-8001 is not recommended for sequencing because its relatively small size and small output force may result in unacceptable spring shift. Where pneumatic sequencing is required, the V-3000-800x Series actuators are recommended. The V-3802-1 and V-3801-8001 are not interchangeable.



**V-3801-8001  
Pneumatic Valve Actuator**

### Repair Information

If the V-3801-8001 Pneumatic Actuator fails to operate within its specifications, replace the unit. For a replacement actuator, contact the nearest Johnson Controls® representative.

### Selection Chart

Code Number	Description
V-3801-8001	Pneumatic valve actuator

### Accessories

Code Number	Description
VG7000-1010	Spring kit with 3 to 6 psig spring
VG7000-1011	Spring kit with 4 to 8 psig spring
VG7000-1012	Spring kit with 9 to 13 psig spring
VG7000-1015	Spring kit with 3 springs: 3 to 6, 4 to 8, and 9 to 13 psig (includes hardware to adapt to one valve)

### Technical Specifications

V-3801-8001 Pneumatic Valve Actuator	
Maximum Control Pressure	30 psig (207 kPa)
Air Connection	1/8 in. NPT barbed fitting for 1/4 or 5/32 in. O.D. polytubing
Ambient Operating Temperature Limits	-20 to 150°F (-29 to 66°C) <sup>1</sup>
Maximum Storage Temperatures	150°F (66°C)
Effective Diaphragm Area	4 sq. in.
Materials	Housing: die cast aluminum Diaphragm: synthetic rubber
Shipping Weight	0.5 lb (0.23 kg)

1. For use on steam systems with 15 psig (103 kPa) or less inlet pressure