

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 *V-3801-8001 Pneumatic Valve Actuator Product Bulletin (LIT-977253)* for important product 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 Series Actuator fails to operate within its specifications, replace the unit. For a replacement actuator, contact the nearest Johnson Controls® representative.

## Selection Charts

### V-3801-8001 Pneumatic Valve Actuator

Code Number	Description
V-3801-8001	Pneumatic Valve Actuator

### Accessories for V-3801-8001

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 9-13 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. Poly tubing
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.