

V-3802-1

LIT-19024065

Oval Top Actuator

Description

The V-3802 Pneumatic Oval Top Actuator positions steam or water valve modulating plugs in response to a pneumatic signal from a controller.

Features

- designed for use where mounting space is restricted
- die cast aluminum housing and a molded, synthetic elastomer diaphragm that provides a constant effective area throughout the valve stem stroke

- comparatively small oval enclosed actuator has sufficient force to handle most seating pressures
- remove or reposition actuator by loosening a single set screw
- easily field mounted to the valve bonnet with a single set screw.

Applications

VT Series Valves only. Also available to replace older, installed V-3800 Series Oval Top Actuators.

Not for use with VG7000 Series valves.



V-3802-1 Compact Actuator on two-way valve

Selection Chart

V-3802 Pneumatic Oval Top Actuators

Code Number	Description
V-3802-1	Pneumatic Oval Top Actuator

Repair Information

Actuator	Replacement Diaphragm
V-3802-1	V-3100-611

Technical Specifications

V-3802 Pneumatic Oval Top Actuators	
Media Temperature	281°F Maximum
Maximum Control Pressure	30 psig
Available Spring Ranges	3-6, 4-8, and 9-13 psi ¹
Air Connection	1/8 in. NPT Barbed Fitting for 5/32 in. O.D. Poly tubing
Size (in.)	2-7/16 H x 1-5/8 W x 4-31/32 Diameter

1. A spring is assembled with valve body, not in the actuator. For spring kits to field mount V-3802-1 to valve bodies, refer to *Valve Spring Kits Sorted by Valve Code Number Catalog Page (LIT-1924395)* on Page 288.

V-4000-1

LIT-1924070

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.

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)

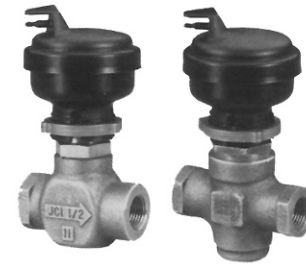
Selection Chart

Code Number	Description
V-4000-1	Small Pneumatic Actuator

Technical Specifications

V-4000-1 Pneumatic Actuator		
Ambient Temperature Limits	-20 to 150°F (-29 to 66°C)	
Relative Humidity	5 to 90% RH	
Fluid Operating Temperature Limits	35 to 200°F (2 to 93°C)	
Storage Condition Limits	-20 to 150°F (-23 to 66°C) 5 to 95% RH	
Dimensions (H x Diameter)	3.27 in. x 2.84 in. Diameter (83.1 mm x 72.1 mm Diameter)	
Maximum Control Pressure	30 psig (210 kPa)	
Control Signal Air Connection	Dual Barbed Fitting for 5/32 or 1/4 in. O.D. Tubing	
Effective Diaphragm Area	4 square inches (2581 square mm)	
Materials	Yoke and Cover	Glass-Reinforced Nylon
	Piston	Glass-Reinforced Nylon
	Diaphragm	Fabric Reinforced Synthetic Rubber
	Retaining Nut	Chromate-Coated Zinc
Available Spring Ranges	3-6, 4-8, 9-13 psi ¹	

1. A spring is assembled with valve body, not in the actuator. For spring kits to field mount V-4000-1 to valve bodies, refer to *Valve Spring Kits Sorted by Valve Code Number Catalog Page (LIT-1945395)* on Page 288.



V-4000-1 Actuators

Applications

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

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.