

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

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.

Selection Chart

Code Number	Description
V-4000-1	Small Pneumatic Actuator

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)



V-4000-1 Actuators

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-3802-1 to valve bodies, refer to *Valve Spring Kits Sorted by Valve Code Number Catalog Page (LIT-1924395)*, online or in the Johnson Controls® Valves and Actuators Catalog.