

Pneumatic Valve Actuators

Description

The V-3000-8011 and V-3000-8003 Pneumatic Valve Actuators are designed to accurately position steam or water valve modulating plugs in response to a pneumatic signal from a controller. A V-9502 Valve Pilot Positioner can be ordered separately (V-3000-8011 only) for use in applications where sequential operation is desired or additional positioning power is necessary. The actuators have a molded synthetic rubber diaphragm design. This molded diaphragm provides a constant effective area throughout the actuator stroke. All parts are protected by a sturdy die-cast aluminum housing.

Features

- universal valve mounting design is compatible for use on all Johnson Controls valves with V-3000 mounting configurations
- rolling diaphragm design provides constant effective diaphragm area throughout stroke for optimal force output
- integral stroke position indicator provides visual reference to valve position

Applications:

Used on the following: VG7000 Series, VTM Series, V-3752 Series, V-3754 Series, V-3762 Series, V-3766 Series, V-3966 Series, V-3974 Series, V-4324 Series, V-4332 Series, V-4334 Series, and V-4440 Series.

The V-3000-8011 and V-3000-8003 can replace the V-3000-1 and V-3000-2; however, the reverse is not true.

Repair Information

If the V-3000 Series Actuator fails to operate within its specifications, replace the unit. See the Accessories chart for replacement diaphragms for the V-3000-8003 enclosed model. For a replacement actuator, contact the nearest Johnson Controls® representative.



**Exposed
V-3000-8011
Actuator**



**Enclosed
V-3000-8003
Actuator**

Selection Charts

V-3000 Series Actuators

Code Number	Description
V-3000-8011	Exposed Yoke
V-3000-8003	Enclosed Yoke

Accessories for V-3000 Series Actuators (Order Separately)

Code Number	Description
For Exposed Model (V-3000-8011)	
V-9502-90	Pilot positioner (less spring) will mount to V-3000-8011 only.
V-9502-6801	Pilot positioner springs: 5/16 in. stroke (8 mm lift) - 3 psi span 1/2 in. stroke (13 mm lift) - 5 psi span 3/4 in. stroke (19 mm lift) - 10 psi span
V-9502-6802	Pilot positioner springs: 5/16 in. stroke (8 mm lift) - 8 psi span 1/2 in. stroke (13 mm lift) - 12 psi span
V-9502-6803	Pilot positioner springs: 3/4 in. stroke (19 mm lift) - 4 psi span
	Valve spring kits: refer to the specific valve product for spring kit code numbers.
For Enclosed Model (V-3000-8003)	
V-3000-6001	Replacement Diaphragm for V-3000-8003 only

Technical Specifications

V-3000 Series Actuators	
Maximum Control Pressure	30 psig (207 kPa)
Air Connection	Barb Fitting: 5/32 or 1/4 x 1/8 NPT
Ambient Operating Temperature Limits	-20 to 150°F (-29 to 66°C)
Maximum Storage Temperature	150°F (66°C)
Effective Diaphragm Area	8 sq. in.
Materials	Housing: Die-cast Aluminum Diaphragm: Synthetic Rubber
Shipping Weight	V-3000-8011: 0.9 lb (0.40 kg) V-3000-8003: 1 lb (0.5 kg)