

V-3000-8011, V-3000-8003 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.

Refer to *V-3000-8011 (Exposed) and V-3000-8003 (Enclosed) Pneumatic Valve Actuators Product Bulletin (LIT-977252)* for important product information.

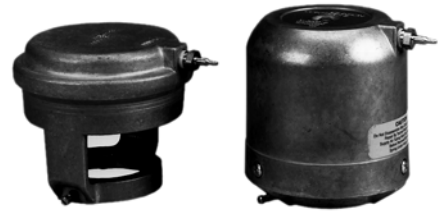
Features

- 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.



Exposed V-3000-8011 and V-3000-8003 Pneumatic Valve Actuators

Repair Information

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

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 (Ordered Separately)

| Code Number | Description |
|---|--|
| Exposed Model (V-3000-8011) Accessories | |
| V-9502-90 | Pilot positioner (less spring), mounts to V-3000-8011 only. |
| V-9502-6801 | Pilot positioner springs: 8 mm lift (5/16 in. stroke) - 3 psi (21 kPa) span 13 mm lift (1/2 in. stroke) - 5 psi (34 kPa) span 19 mm lift (3/4 in. stroke) - 10 psi (69 kPa) span |
| V-9502-6802 | Pilot positioner springs: 8 mm lift (5/16 in. stroke) - 8 psi (55 kPa) span 13 mm lift (1/2 in. stroke) - 12 psi (83 kPa) span |
| V-9502-6803 | Pilot positioner springs: 19 mm lift (3/4 in. stroke) 4 psi span |
| | Valve spring kits: Refer to the specific valve product for spring kit code numbers |
| Enclosed Model (V-3000-8003) Accessories | |
| V-3000-6001 | Replacement diaphragm for V-3000-8003 only. |

Technical Specifications

V-3000 Series Actuators

| | |
|---|---|
| Maximum Control Pressure | 25 psig (172 kPa) |
| Air Connection | Barb Fitting: 5/32 or 1/4 x 1/8 National Pipe Thread (NPT) |
| Ambient Operating Temperature Limits | -29 to 66°C (-20 to 150°F) |
| Maximum Storage Temperature | 66°C (150°F) |
| Effective Diaphragm Area | 51.2 cm ² (8 in. ²) |
| Materials | Housing: Die-cast Aluminum Diaphragm: Synthetic Rubber |
| Shipping Weight | V-3000-8011: 0.40 kg (0.9 lb) V-3000-8003: 0.5 kg (1 lb) |