V-3000-8012, V-3000-8003 Pneumatic Valve Actuators Catalog Page

2019-10-16 LIT-1924050

Description

Figure 1: Exposed V-3000-8012 and V-3000-8003 Pneumatic Valve Actuators



The V-3000-8012 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 Positioner can be ordered separately for use with the V-3000-8012 only, 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 the *V-3000-8012 (Exposed) and V-3000-8003 (Enclosed) Pneumatic Valve Actuators Product Bulletin (LIT-977252)* for important product application 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-3000-8012 and V-3000-8003 can replace the V-3000-1 and V-3000-2.

Repair information

See the accessories and repair parts table for replacement diaphragms. For a replacement actuator, contact the nearest Johnson Controls representative.

Selection chart

Table 1: Selection charts

Code number	Description
V-3000-8012	Exposed yoke
V-3000-8003	Enclosed yoke

Accessories and repair parts

Table 2: Accessories and repair parts

Code number	Description
Exposed model (V-3000-8012) accessories	
V-3000-600	Replacement diaphragm for V-3000-8012
V-9502-90	Pilot positioner (less spring), mounts to V-3000-8012 only
V-9502-6801	Pilot positioner springs: 5/16 in. stroke (8 mm lift) - 3 psi (21 kPa) span 1/2 in. stroke (13 mm lift) - 5 psi (34 kPa) span 3/4 in. stroke (19 mm lift) - 10 psi (69 kPa) span

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Table 2: Accessories and repair parts

Code number	Description
V-9502-6802	Pilot positioner springs: 5/16 in. stroke (8 mm lift) - 8 psi (55 kPa) span1/2 in. stroke (13 mm lift) - 12 psi (83 kPa) 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.
Enclosed model (V-3000-8003) accessory	
V-3000-6001	Replacement diaphragm for V-3000-8003

Technical specifications

Table 3: Technical specifications

V-3000-8012, V-3000-8003 Pneumatic Valve 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	-20°F to 150°F (-29°C to 66°C)
Maximum storage temperature	150°F (66°C)
Effective diaphragm area	8 $in.^2$ (51.2 cm^2)
Materials	Housing: Die cast aluminum Diaphragm: Synthetic rubber
Shipping weight	V-3000-8012:1.1 lb (0.49 kg) V-3000-8003: 1 lb (0.45 kg)

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Single point of contact

APAC	Europe	NA/SA
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