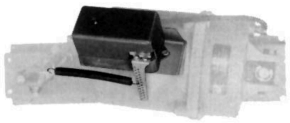
D-9502 Pneumatic Damper Actuator Positioner Catalog Page

2019-10-31 LIT-1921035

Description

Figure 1: D-9502 Pneumatic Piston Damper Actuator



The D-9502 Pneumatic Damper Actuator Positioners are precision relay devices used to adjust and maintain damper actuators in exact positions on those applications requiring precise or otherwise special damper positioning.

Refer to the *D-9502 Pneumatic Damper Actuator Positioner Product Bulletin (LIT-1628399P)* for important product application information.

Features

- provides dynamic stabilization and/or sequential control
- includes mounting bracket for direct attachment to actuator body

Selection charts

Table 1: D-9502 Pneumatic Damper Actuator Positioner

Code number	Description
D-9502-5	D-3244 Actuator
D-9502-8	D-3153 Actuator
D-9502-9	D-3153 Actuator, Two-Stage
D-9502-12	D-4073 Actuator

Table 2: Pilot Positioners for Obsolete Actuators

Code number	Description
D-9502-5	D-251 No. 5 Actuator or D-3246

Accessories and maintenance parts

Table 3: Accessories and maintenance parts

Code number	Description	Weight, lb (kg)
D-9502-609	Spring for use with D-3153, D-3073, and D-4073	0.8 (0.36)
D-9502-610	Spring for use with D-3244	0.8 (0.36)
D-9502-611	Diaphragm repair kit, package quantity of 6	0.8 (0.36)
D-9502-612	Spring for use with D-3246	0.8 (0.36)
D-9502-604	Operating span lever arm assembly	0.8 (0.36)
C-9506-1	Positioner movement complete less springs and operating span lever arm assembly	1.3 (0.59)

Applications

The pneumatic damper actuator pilot positioner provides dynamic stabilization and/or sequential control of pneumatic damper actuators. It is available factory installed on D-4070, D-4073, D-3153, and DS-3153 Damper Actuators. On D-3153 Series Actuators, a special positioner mounting kit (D-9502-9) is available for changing basic D-9502 positioner control to two-stage operation.

Depending on the type of actuator used, up to three additional actuators may be controlled by a single positioner/actuator assembly; for example, multiple actuators modulating large or coupled dampers.

Repair information

If the D-9502 Pneumatic Actuator Positioner fails to operate within its specifications, replace the unit. For a replacement positioner, contact the nearest Johnson Controls® representative.

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Technical specifications

Table 4: Technical specifications

D-9502 Pneumatic Damper Actuator Positioner	
Starting point	Adjustable from 2 to 12 psig (14 to 84 kPa)
Operating span	Adjustable from 3 to 13 psi (21 to 91 kPa)
Maximum supply air pressure	25 psig (175 kPa) 20 psig (140 kPa) for D-9504-13 only air supply must be clean, dry, and oil free.
Air consumption	5 SCIM (1.4 mL/s)
Output flow capacity	1,000 SCIM (273 mL/s) 1,600 SCIM (437 mL/s) D-9502-13 only
Air connections	Barbed fittings for 5/32 or 1/4 in. O.D. polytubing supply S and pilot P: barbed fittings for 5/32or 1/4 in O.D. polytubing D-9502-13 only output O: compression fitting for 1/4 in. O.D. copper tubing D-9502-13 only
Ambient operating conditions	-20 to 150°F (-29 to 66°C)-20 to 250°F (-29 to 121°C) D-9502-13 only based on UL testing for 30 minutes and should not be considered for continuous operation

Table 4: Technical specifications

D-9502 Pneumatic Damper Actuator Positioner	
Effective diaphragm area	15 in^2 (97 cm^2)
Materials	Body - die cast aluminum with irradiate finish Cover - Noryl (D-9502-13 die cast zinc) Diaphragm - fabric-reinforced rubber
Dimensions (H x W x D)	2-1/4 x 3-7/8 x 2-23/32 in.
Shipping weight, lb (Kg)	2.0 (0.91)
Agency listing	UL Recognized component to 350°F (176°C) with compression fitting for copper tubing File No. R15581

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

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