

D-9502-5 Positioner Kit (For D-3244 & D-3246 Series Actuators)

Kit Includes

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|--------------------------------|-------------------------------------|
| 1. 1 Positioner w/Cover | 5. 2 Self-Tapping Holding Screws |
| 2. 1 Positioner Mounting Plate | 6. 1 Positioner Spring (For D-3244) |
| 3. 1 Pull Arm (For D-3244) | 7. 1 Installation Instructions |
| 4. 2 #8-32 Screws | |

Note: To install a D-9502-5 positioner on a D-3246 series actuator, a new positioner spring (D-265-603) and pull arm (D-9502-100) are required and must be ordered separately.

Specifications

Maximum Pressure		25 PSIG (175 kPa)
Starting Point		Adjustable From 2 to 12 PSIG (14 to 84 kPa)
Operating Span		Adjustable From 3 to 13 PSI (21 to 91 kPa)
Output Capacity	1/4 or 5/32 in. Barbed Fitting	1000 SCIM (273 mL/s)
	1/4 in. Barbed Fitting	1600 SCIM (437 mL/s)
Air Connections		Barbed Fittings for 5/32 or 1/4 in. O.D. Poly tubing
Air Consumption		5 SCIM (1.4 mL/s)
Ambient Operating Temperature Limits		-20 to 150°F (-29 to 66°C)
Repair Parts (Order Separately)		D-9502-600 Diaphragm
		D-265-603 5-7/8 in. Spring for D-3246
		D-9502-610 5-1/4 in. Spring for D-3244

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

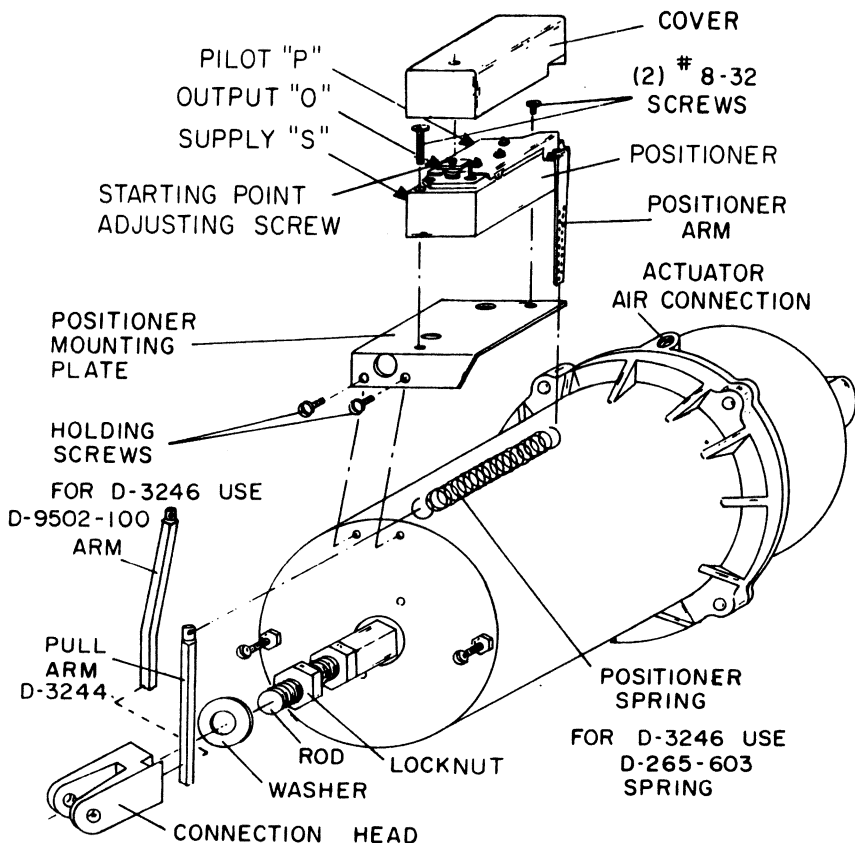


Fig. 1

Mounting Procedure (See Fig. 1)

1. Secure the positioner mounting plate to the actuator with the two self-tapping holding screws.
2. Remove the cover from the positioner.
3. Secure the positioner to the mounting plate with the two #8-32 screws.
4. Remove the connection head from the actuator.
5. Slide the washer onto the rod up to the locknut.
6. Screw the connection head onto the rod up to the washer.
7. Slide the pull arm into the slot in the connection head.

8. Secure the assembly by tightening the locknut in place.
9. Attach one end of the spring to the pull arm and the other end to the positioner arm. Note: If there is slack in the spring, disconnect the spring from the pull arm, loosen the locknut, and rotate the connection head and pull arm away from the actuator to a position where the spring would be just taut. Tighten the locknut in place and reconnect the spring to the pull arm.

Adjustments

The holes in the positioner arm determine the operating span. The hole nearest the fixed end represents an operating span of 3 PSI (21 kPa) and the hole furthest from the fixed end represents an operating span of 13 PSI (91 kPa).

The starting point adjustment is the brass screw located on the positioner (under the cover). Note: The other three screws on the positioner are factory settings and should not be adjusted. When adjusting the positioner starting point, keep in mind that the sum of the starting pressure and the span must not exceed the supply pressure. If the sum exceeds the supply pressure, the actuator will not move over its full stroke.

Operational Checkout

To check the operation of the positioner, proceed as follows:

1. Apply 20 PSIG (140 kPa) to the supply "S" port.
2. Apply variable air (0 to 20 PSIG) to the pilot "P" port.
3. Connect the output "O" port of the positioner to the actuator connection.
4. Vary the pressure to the pilot "P" port. The actuator should begin to stroke when the pilot pressure reaches the starting point. The actuator should be fully stroked when the pilot pressure reaches the high end of the operating span.

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