



**V-9502-75 Positioner Kit for  
V-3000-8001 Pneumatic Actuators Mounted to  
VG7000 Series Bronze Valves**

Note: The positioner spring must be ordered separately. Refer to Table 1 for appropriate code number.

**Kit Includes (See Figure 1)**

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- one positioner with cover and mounting bracket
- one feedback connector
- one No. 8 x 32 x 1/2 in. flat head mounting screw
- one elbow barbed fitting
- two spacers
- two No. 10-24 x 15 mm (5/8 in.) mounting screws

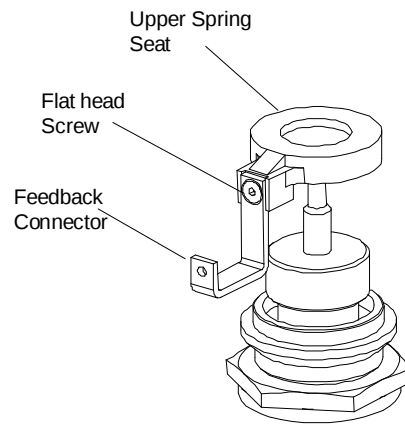
**Tools Required**

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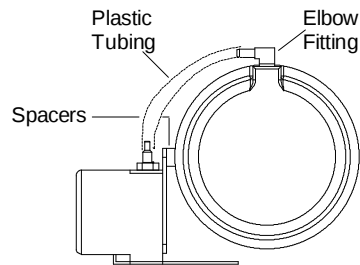
- standard screwdriver
- 7/16 in. open end or adjustable wrench
- 3/16 in. Allen wrench

**Table 1: Accessories**

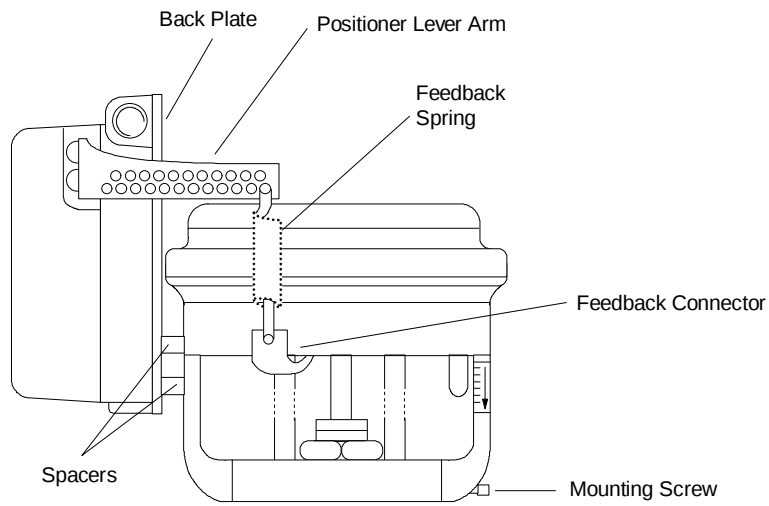
| Description                               | Code Number |
|-------------------------------------------|-------------|
| <b>Pilot Positioner Springs:</b>          |             |
| 5/16 in. Stroke (8 mm Lift) - 3 psi Span  | V-9502-6801 |
| 1/2 in. Stroke (13 mm Lift) - 5 psi Span  | V-9502-6801 |
| 3/4 in. Stroke (19 mm Lift) - 10 psi Span | V-9502-6801 |
| 5/16 in. Stroke (8 mm Lift) - 8 psi Span  | V-9502-6802 |
| 1/2 in. Stroke (13 mm Lift) - 12 psi Span | V-9502-6802 |
| 3/4 in. Stroke (19 mm Lift) - 4 psi Span  | V-9502-6803 |



**Figure 1: Upper Spring Seat Assembly**



**Figure 2: V-3000-8001 Positioner Mounting**



**Figure 3: Actuator Fittings**

## Actuator Removal

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1. Disconnect the air line attached to the actuator and cap it to prevent control system operation problems.
2. Make sure that the pressure in the actuator has been relieved.
3. Using a screwdriver, remove the V-3000-8001 Actuator from the valve by loosening the mounting set screw. See Figure 3.



**CAUTION:** The spring under the actuator is attached to the valve stem and is precompressed. Unknown damage to the valve stem may create a hazardous condition.

## Mounting Procedure

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1. Attach the feedback connector to the upper spring seat with flat head screw (refer to Figure 1) and using an Allen wrench, tighten the screw.
2. Remove the straight barbed fitting on the actuator and replace it with the elbow fitting. See Figure 2.
3. Using the two No. 10-24 screws and the two spacers, mount the positioner to the actuator through the two lower mounting slots of the positioner back plate (refer to Figure 3). Do not tighten the screws at this time.
4. Place the actuator over the valve spring assembly and feedback connector. Using a screwdriver, tighten the mounting screw against the valve bonnet.
5. Rotate the feedback connector until the hole is directly under the positioner lever arm.
6. Attach one end of the feedback spring to the first hole in the positioner lever arm and attach the other end to the feedback connector. See Figure 3.
7. Slide the positioner until the spring is just snug and tighten the screws from Step 3 with a screwdriver.
8. Using plastic tubing, connect the actuator to the Output "O" port on the positioner. See Figure 2.
9. Adjust the positioner starting point to suit your application. The operating span is determined by the spring used (refer to Table 1). Refer to *the V-9502 Product Data in the Valve and Actuator Manual (FAN 977)* for the procedure.

