

8-inch Adjustable Spring Actuator Rebuilding Kit



Product Description

This 8-inch Adjustable Spring Actuator Rebuilding Kit provides the hardware for rebuilding a Model 3 8-inch actuator used with Flowrite™ valves.

Product Number

672-600

Warning/Caution Notations

WARNING		Personal injury/loss of life may occur if a procedure is not performed as specified.
CAUTION		Equipment damage, or loss of data may occur if the user does not follow procedure as specified.

Required Tools

- 7/16-inch or 5/8-inch wrench
- 1/2-inch wrench
- 3/4-inch wrench

Prerequisites



WARNING:

- Before doing any service work, shut off the medium, (water steam, etc.) to the valve.
- Close the shut-off valve on the outlet of the valve.
- Remove and cap the air line to the valve actuator to prevent personal injury and equipment damage.
- The valve and actuator may be too hot to handle with your bare hands.

Installation

1. Observe and record the valve stem starting pressure. You will reference this in Step 13.

2. Loosen the stem locknuts with a 7/16-inch or a 5/8-inch wrench.
3. Loosen the bonnet lock screw or locknut.
4. Unscrew the actuator from valve body. Prevent the bonnet from loosening at the valve body.

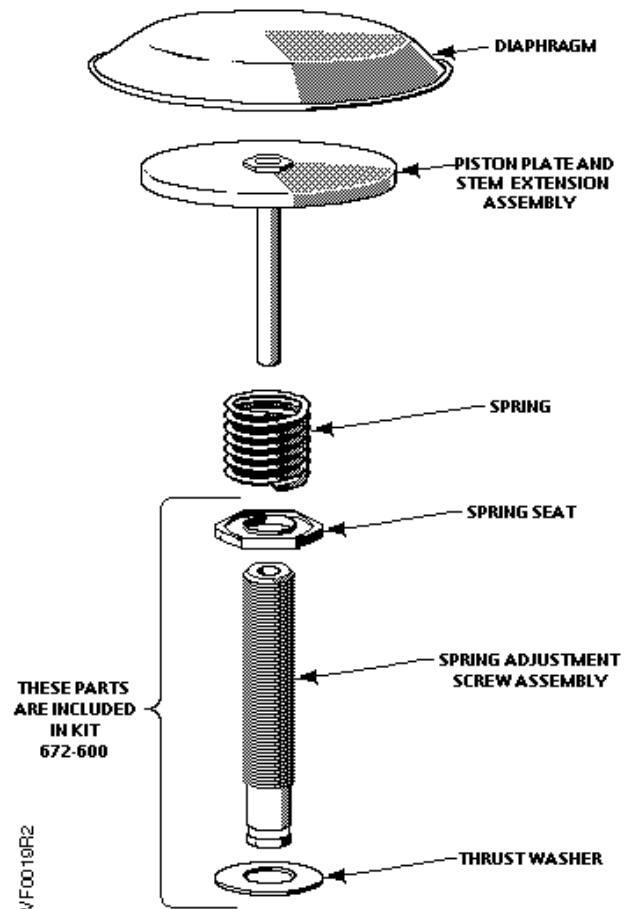


Figure 1.

5. With the actuator resting on a flat surface or secured within a bench vice, release all tension on the spring by rotating the spring adjusting screw with a 3/4-inch wrench from left to right.

Installation, Continued



WARNING:

Failure to release spring tension can result in bodily injury. Use safety glasses to prevent damage to the eyes.

6. Loosen and remove the six cap screws and nuts in the upper housing with a 1/2-inch wrench. Remove the upper housing and inspect the actuator diaphragm; replace if necessary.
7. Remove the diaphragm.
8. Remove the piston plate and stem extension assembly. If these need replacing, see *Table 1*.

Table 1. Piston Plate and Stem Extension Kits.

Stem Extension Overall Length	Kit Number
7-3/4" (197 mm) (3/8" thread)	672-464
7-15/16" (202 mm) (1/4" thread)	672-465
8-3/8" (213 mm) (1/4" thread)	672-466

9. Remove the spring from the lower housing.
10. Remove and discard the spring seat, spring adjustment screw assembly, and thrust washer.

11. Use replacement parts in Kit 672-600. Reassemble in the lower housing the thrust washer, spring adjustment screw assembly, and spring seat. Return the spring and piston plate and stem-extension assembly. If necessary, also replace the diaphragm with a standard (or heavy duty) type.
12. If the actuator-to-valve mounting hardware is rusted or damaged, order Kit 591-962. This kit includes two (2) stem locknuts, a bonnet lock screw, and a copper slug (prevents damage to bonnet threads). Actuator housing cap screws/nuts (6) are also included.
13. Readjust the valve stem starting pressure using the spring adjusting screw and a 3/4-inch wrench. Moving the wrench from left to right decreases spring tension; right to left increases spring tension.



CAUTION:

Maximum air pressure to actuator must be limited to 35 PSI (24 kPa).

The installation is now complete.

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