

Flowrite™ AP 599 Series 4-inch Pneumatic Valve Actuator

Product Description

The Flowrite AP 599 Series 4-inch Pneumatic Valve Actuator is designed for use with the Flowrite VF 599 Series valves with a 3/4-inch (20 mm) stroke.

Product Numbers

599-01081 3 to 8 psi (21 to 55 kPa) spring range

599-01082 5 to 10 psi (34 to 69 kPa) spring range

599-01083 10 to 15 psi (69 to 103 kPa) spring range

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 a procedure as specified.

Required Tools

- 5 mm hex wrench
- 5/16-inch hex wrench
- 1/8-inch NPT straight barbed fitting
- Squeeze bulb (baumanometer)

Expected Installation Time

16 minutes for field mounting of the actuator.

36 minutes for removing the old and mounting a new actuator.

Prerequisites



WARNING:

If mounting the actuator to a valve already in line, either close the shut-off valves in the piping (upstream first, then downstream) or switch off the pump to allow the differential pressure to drop.



CAUTION:

Do not damage or scratch the polished surface of the valve stem.

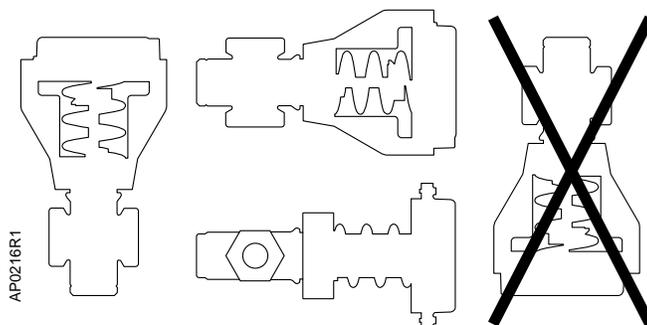


Figure 1. Acceptable Mounting Positions.

The vertical position is recommended for mounting. *Figure 1* shows the acceptable mounting positions.

Installation

If you are not replacing an existing actuator, begin with the instructions of *Figure 5*.

Installation, Continued

Removing an existing actuator from a valve

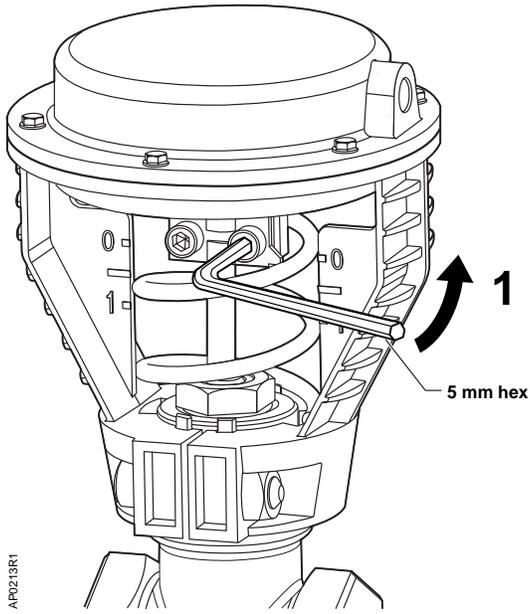


Figure 2.

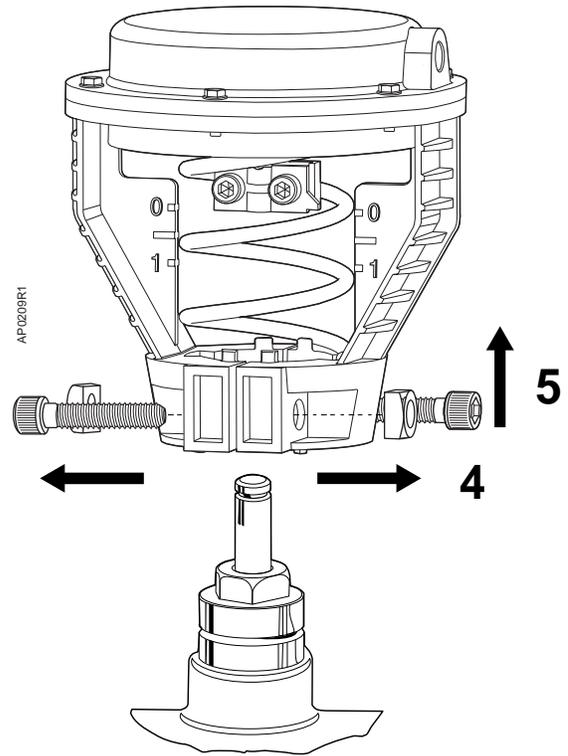


Figure 4.

Preparation before mounting an actuator to a valve

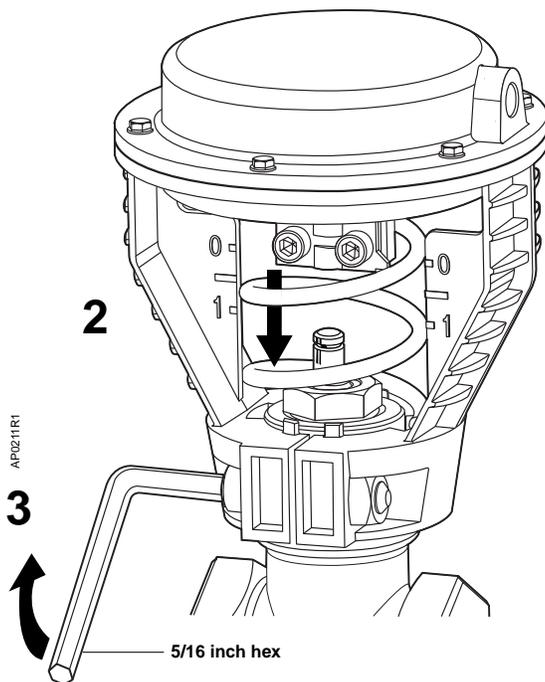


Figure 3.

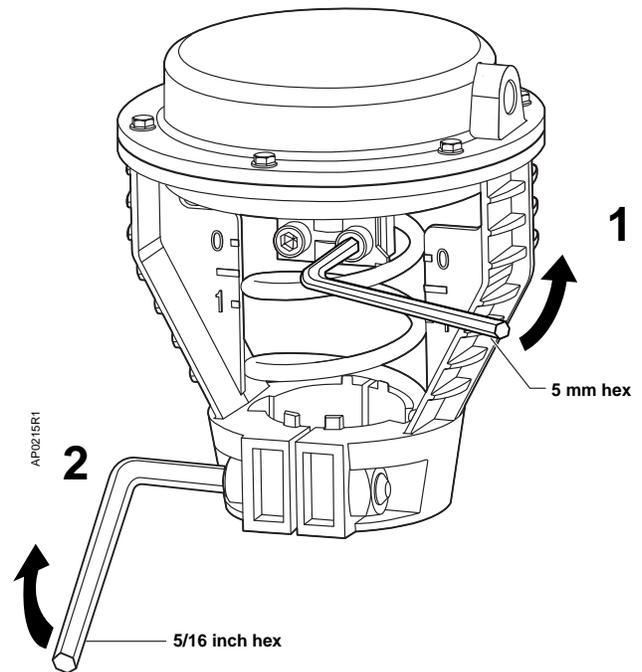


Figure 5.

Installation, Continued

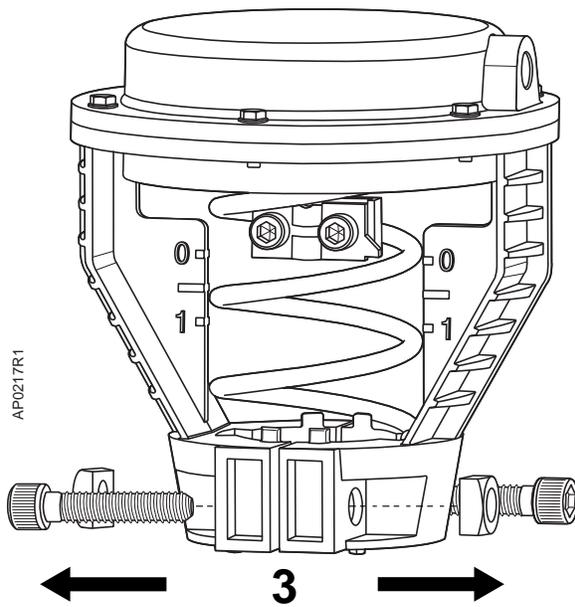


Figure 6.

Mounting an actuator to a valve

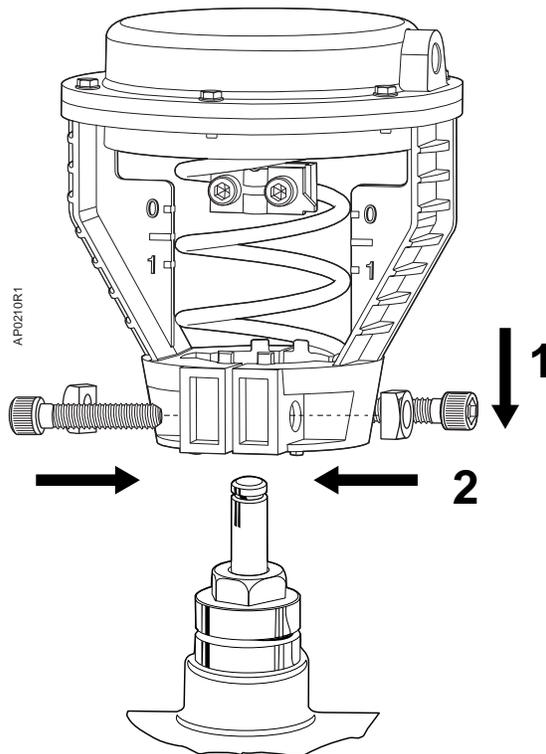


Figure 7.

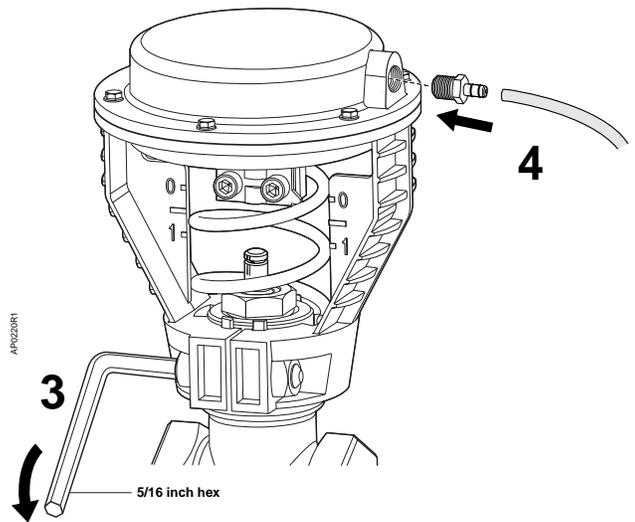


Figure 8.

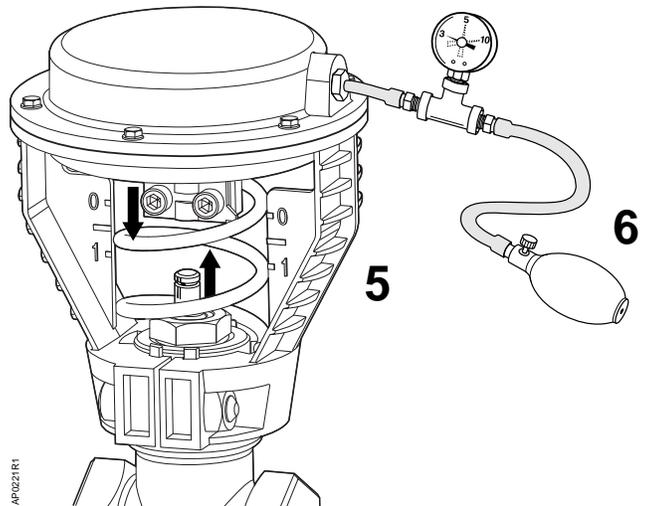


Figure 9.

Raise the valve stem. Apply enough air pressure to lower the stem retainer to meet the valve stem.

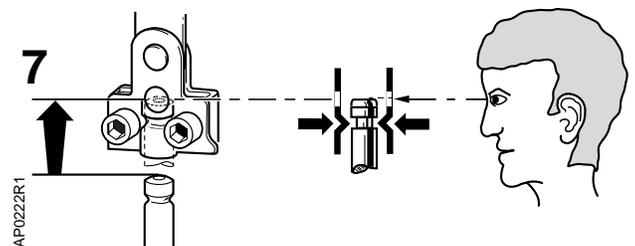


Figure 10.

Installation, Continued

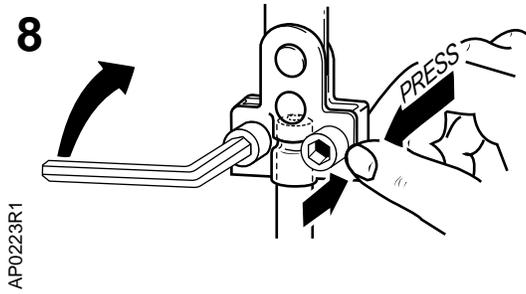


Figure 11.

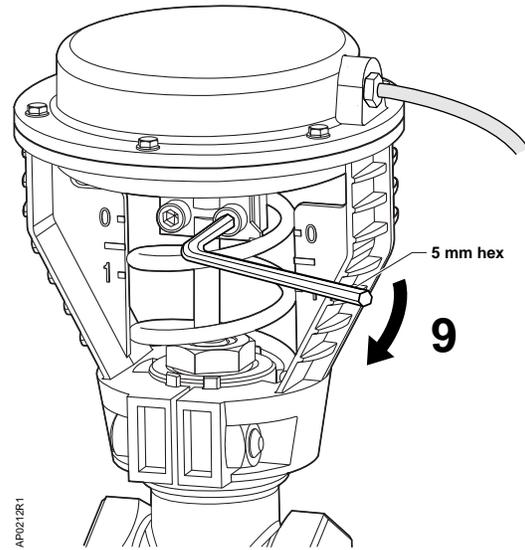


Figure 12.

The installation is now complete.

Reference

Technical Instructions

AP 599-3 Flowrite AP 599 Series
4-inch Pneumatic Valve Actuator
155-183P25

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