

Spring Return Handle



Instructions for Installing Spring Return Handles on 43G Series Straight or Angle Pattern Valves

The spring return handle can also be installed on 3-port valves with a 90° actuation, specifically the “L” or “H” flow paths.

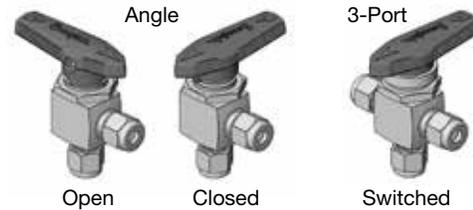
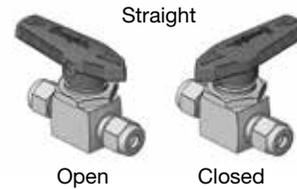
Note: The handle cannot be used with 43GE valves at pressures over 2500 psig (172 bar) or on any 43G valve assembled without lubricant.

⚠ WARNING

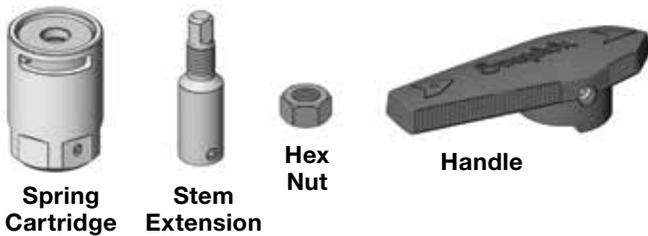
Before removing the valve from service, to avoid personal injury, you must:

- Depressurize the system
- Cycle the valve
- Purge system to remove any residual system media left in valve

1. Before removing the old handle, set the valve to the spring-return position (the position to which valve will return when the spring return handle is released).



Kit Contents



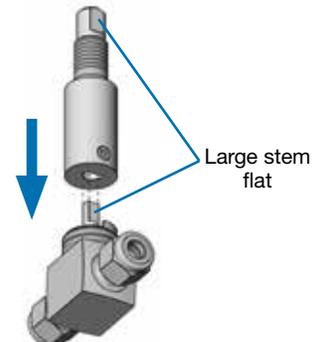
2. Utilizing the 3/32 hex key, loosen the set screw and remove the old handle, handle stop insert (3-port valves only), and panel nut. Discard them.



Tools Required

Part	Size	Tool
Handle set screw	3/32 in. (2.38 mm)	Hex key
Stem extension set screw	3/32 in. (2.38 mm)	Hex key adapter
Handle set screw	5/32 in. (3.97 mm)	Hex key adapter
Jam nut	11/16 in.	Deepwell socket
Spring cartridge	1 3/8 in.	Crow's foot
Set screws, jam nut, and spring cartridge	Capable of up to 300 in.-lb (33.9 N-m)	Torque wrench

3. Line up the large stem flat on the valve with the large flat on the **stem extension**. Then slide the **stem extension** down onto the valve stem.

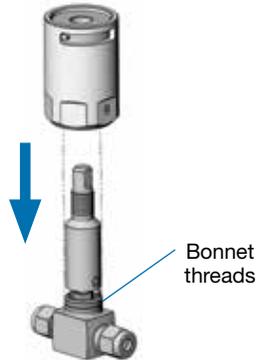


***Bold indicates kit component**

- With the **stem extension** bottomed out on the step of the stem flats, tighten the set screw between 30 to 35 in.-lb (3.4 to 4.0 N-m).



- Thread the **spring cartridge** onto the bonnet threads.



- Tighten the **spring cartridge** to 300 in.-lb (33.9 N-m).



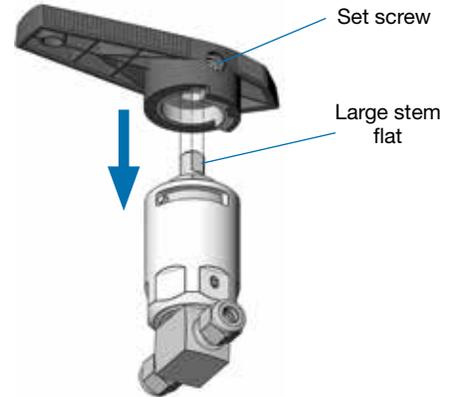
- Thread the **hex nut** onto the **stem extension**.



- Confirm that the **stem extension** is still in the spring-return position, and then tighten the **hex nut** to 200 in.-lb (22.6 N-m).



- Align the **handle** set screw to the large flat on the **stem extension**, and slide the handle onto the **stem extension**.



- Tighten the set screw between 130 to 135 in.-lb (14.7 to 15.2 N-m).



Disassembly and Packing Adjustment

- Remove the nylon handle by loosening the set screw.
- While holding the flats of the stem extension with an adjustable wrench, loosen and remove the hex nut.
- Loosen and remove the spring cartridge.
- Remove the stem extension by loosening the set screw.
- Adjust the valve packing according to the instruction card *40G Ball Valve Packing Adjustment*, [MS-INS-40G](#).
- Reassemble the spring return handle according to steps 3 through 10 above.

For additional information, see www.swagelok.com.

***Bold indicates kit component**