


### Manually Actuated with Directional Handle

- High-Pressure
- Low-Pressure



### Definitions

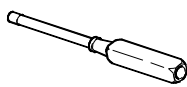
Statements and symbols are used in this document to identify safety concerns. Read the definitions below before performing the service instructions.

 This symbol indicates cautionary information.

**Caution:** Indicates a potentially hazardous situation. It may also be used to alert against unsafe practices.


### Tool Requirements

11/32 in. nut driver





### Torque Conversions

25 in.·lb. = 2.8 N·m or 29 cm·kg.

 **Caution**  
Before servicing any installed valve, you must:

- depressurize the system
- purge the valve

 **Notice**  
If the valve is disassembled, new diaphragms must be installed.

 **Caution**  
Do not interchange high- and low-pressure components

### Directional Handle Kit



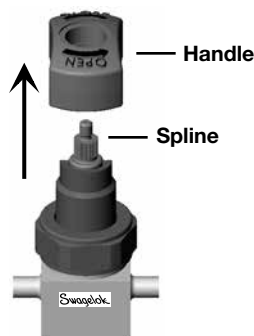
### Directional Handle Replacement

1. Turn the handle to the OPEN position.

2. Pry off the **cap insert**, then remove the **nut/lock washer** with an 11/32 in. nut driver. **Do not remove the handle.**




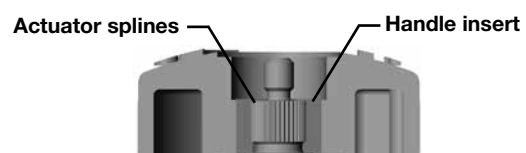
3. Turn handle to the CLOSED position, then lift up on the **handle** and remove from valve.



4. Place the **new directional handle** on the spline, aligning the OPEN label over the front of the valve body. Handle will be perpendicular to the ports.



 **Caution**  
Top of handle insert must be level with the top of the actuator splines. If it is not level, lift up on the handle to clear the spline. Turn handle counterclockwise one spline, and reposition the handle down on the spline.



5. Install the **nut/lock washer** and tighten. (Approximately 25 in.·lb of torque)

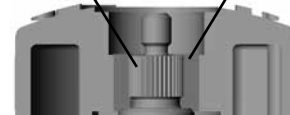
- Press the **cap insert** into the top of the handle.



### Caution

Top of handle insert must be level with the top of the actuator splines. If it is not level, lift up on the handle to clear the spline. Turn handle counterclockwise one spline, and reposition the handle down on the spline.

Actuator splines      Handle insert



- Test the **valve** for leaktight integrity and proper operation. See **Testing**, below.
  - If the valve passes testing, reinstall the valve into the system.
  - If the valve fails any of the tests, reset the handle. See **Resetting the Directional Handle**, below.

- Install the **nut/lock washer** and tighten. (Approximately 25 in.·lb of torque)

## Resetting the Directional Handle

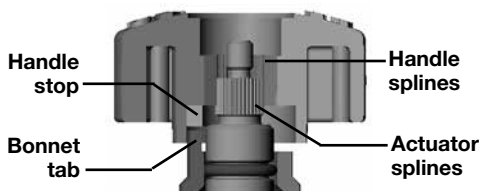
- With the handle in the OPEN position, pry off the **cap insert**, then remove the **nut/lock washer** with an 11/32 in. nut driver.



- Press the **cap insert** into the top of the handle.



- Lift the **handle UP** approximately 1/8 in. to allow the **handle stop** to clear the **bonnet tab**. Keep the **handle splines** engaged with the **actuator splines**.



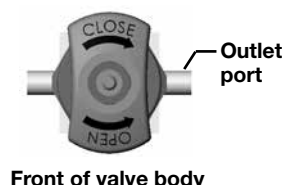
- Test the **valve** for leaktight integrity and proper operation. See **Testing**, below.
  - If the valve passes testing, reinstall the valve into the system.
  - If the valve fails any of the tests, repeat steps 1 through 7.

## Testing

- Turn the **handle** clockwise until the valve is fully CLOSED.



- With the valve in the CLOSED position, lift up on **handle** and reposition the **handle** on the actuator aligning the OPEN label over the **front** of the valve body. Handle will be perpendicular to the ports.



### WARNING

Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.