Latch/Lock Handle for 43X and 43GX Series Ball Valves

Assembly Instructions

This document contains instructions for replacing a standard valve handle with a latch/lock handle on the following 3-way ball valves:

**43X series**
- 43X (180° Rotation)
- 43XHL (180° Rotation)
- 43XH (90° Rotation)
- 43XL (90° Rotation)

**43GX series**
- 43GX (180° Rotation)
- 43GXHL (180° Rotation)
- 43GXH (90° Rotation)
- 43GXL (90° Rotation)

**Tool Requirements**

<table>
<thead>
<tr>
<th>Valve Series</th>
<th>Hex Wrench</th>
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<tbody>
<tr>
<td>All 43X</td>
<td>3/32 in.</td>
</tr>
<tr>
<td>All 43GX</td>
<td></td>
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**Kit Contents**
- Latch/lock handle assembly
- Detent plate (1 of 2 styles)

Valve contents may be under pressure. See packing adjustment note, page 2.

**Detent Plate Identification**

X, XHL Pattern (180° Rotation) | XH, XL Pattern (90° Rotation)

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Shown: Swagelok® 43GX series valve with latch/lock handle
Replacing Standard Handle with Latch/Lock Handle

Handle Disassembly
1. Before removing the standard handle, make note of current handle direction; the latch/lock handle must be installed in the same direction.
2. Loosen the handle set screw and remove the standard handle from valve.

Handle Reassembly
1. Install the detent plate as shown. The relief on the bottom of the detent plate fits over the handle stop on the valve body.

2. Align the set screw of the latch/lock handle with the stem flat (use large flat if stem has two flats).
3. Slide the latch/lock handle down the stem until the handle rests on the detent plate. The stop lug should be located in the stop lug recess.
   • X, XHL patterns only: Lock pin should be in lock pin recess or in either side of the stop lug recess, depending on the direction of the handle.
   • XH, XL patterns only: Lock pin should be in one of the two lock pin recesses.

4. Tighten the set screw to 30 to 35 in.-lb (3.4 to 4.0 N·m).
5. Test valve and handle for proper operation.

Note: Packing adjustments may be required during the service life of the valve to prevent leakage. See instructions for Swagelok 40 series valves, MS-INS-40, or 40G series valves, MS-INS-40G, for details.

Caution: Do not mix or interchange valve components with those of other manufacturers.