Medium-Pressure Ball Valve
End Screw Replacement Instructions
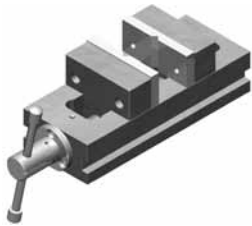
Swagelok

Kit Contents

End screw (1)

Lubricant (MS-LT-1)

Lubricant (MS-LT-WL7)

Tools Required

Tool	Size	Component
Vise	—	Body
Crow's foot Open-ended wrench	6FKB series - All medium-pressure tube fittings: 1 in. 1/4 in. NPT fitting: 1 in. 3/8 in. NPT fitting: 1 3/8 in. 1/2 in. NPT fitting: 1 1/2 in.	End screw
	8FKB series - 1 1/2 in.	
	12FKB series - 1 7/8 in.	
Torque wrench	Capable of 1200 in·lb (135 N·m)	

⚠ WARNING

Before removing a valve from the system for service, you must
- **depressurize system**
- **cycle the valve**
- **purge the valve.**

⚠ WARNING

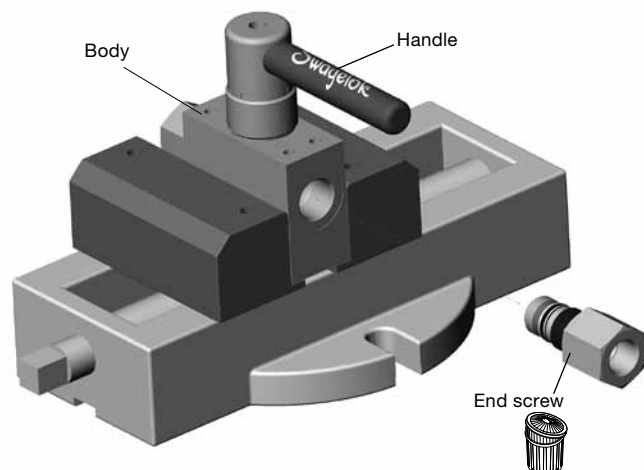**Residual system media may be left in the valve.**

Symbols

Discard

Lightly lubricate

Disassembly

1. Remove the valve from the system.

2. Position the valve in the fully open or fully closed position prior to disassembly.
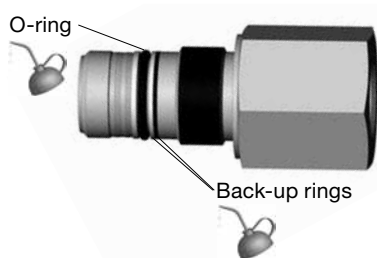
   Note: Damage to the new end screw can occur if the valve is not put in the fully open or fully closed position.

3. Place the valve body in a vise.

4. Loosen the old **end screw** with a wrench and slowly remove from the **body**. Discard the end screw.
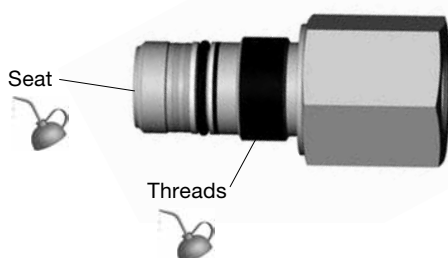

Reassembly

5. Remove the new end screw from the packaging.

   Note: Do not dissassemble the new end screw.

6. Inspect the valve body and new end screw seat for damage and debris.

   Note: If the valve stem or ball have damage, the entire valve must be replaced.

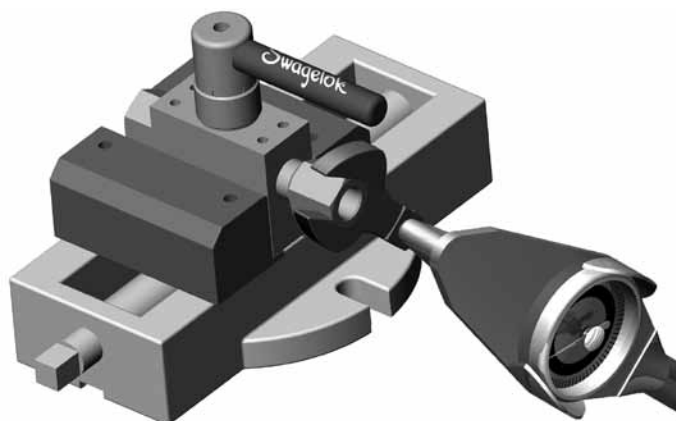7. Lubricate the O-rings and back-up rings lightly with the provided MS-LT-1 lubricant.

8. Lubricate the seat and end screw threads lightly with the provided MS-LT-WL7 lubricant.

9. Carefully thread the new end screw into the valve body until it is fingertight.

10. Tighten the end screw to the appropriate torque according to the table below.

Valve Series	Torque, in.·lb (N·m)
6FKB	640 (72.3)
8FKB	1200 (135)
12FKB	1200 (135)

11. Cycle the valve.

12. Reinstall the valve into the system using a back-up wrench on the end screw.

13. Test the valve for proper operation.