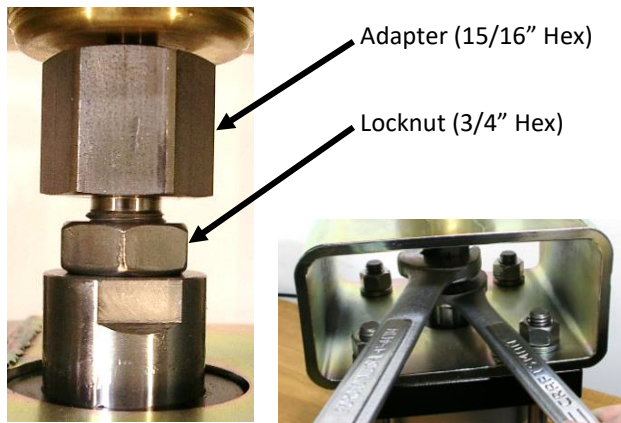


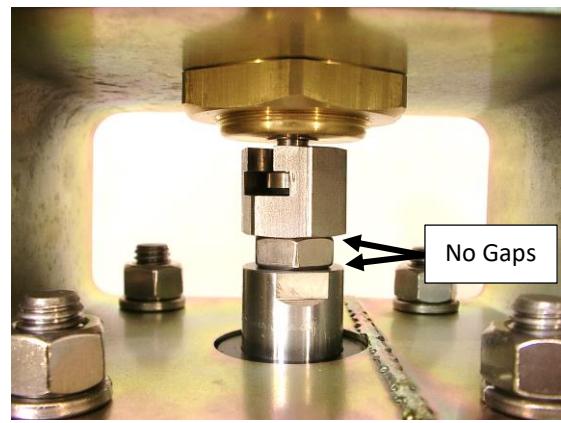
**NOTE:** These instructions should be thoroughly read and understood before attempting any repairs. Ensure device has been disconnected from the system and is completely depressurized before beginning.

**CAUTION:** Valve Actuators are Spring Loaded Devices and are extremely dangerous if improperly disassembled.

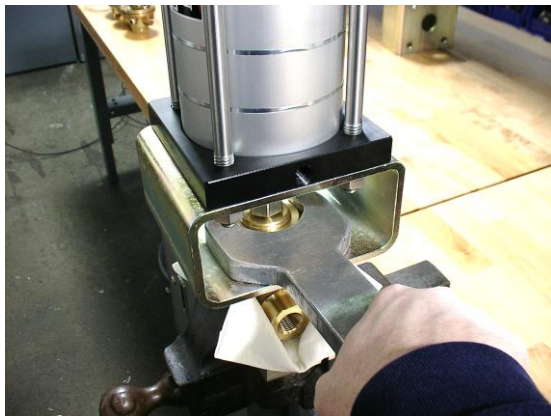
**Disconnecting the Valve from the Actuator:**



1. Using 15/16" and 3/4" wrenches, loosen the locknut from the stem adapter.



2. Use a 15/16" wrench to screw adapter all the way into piston, sandwiching the locknut.



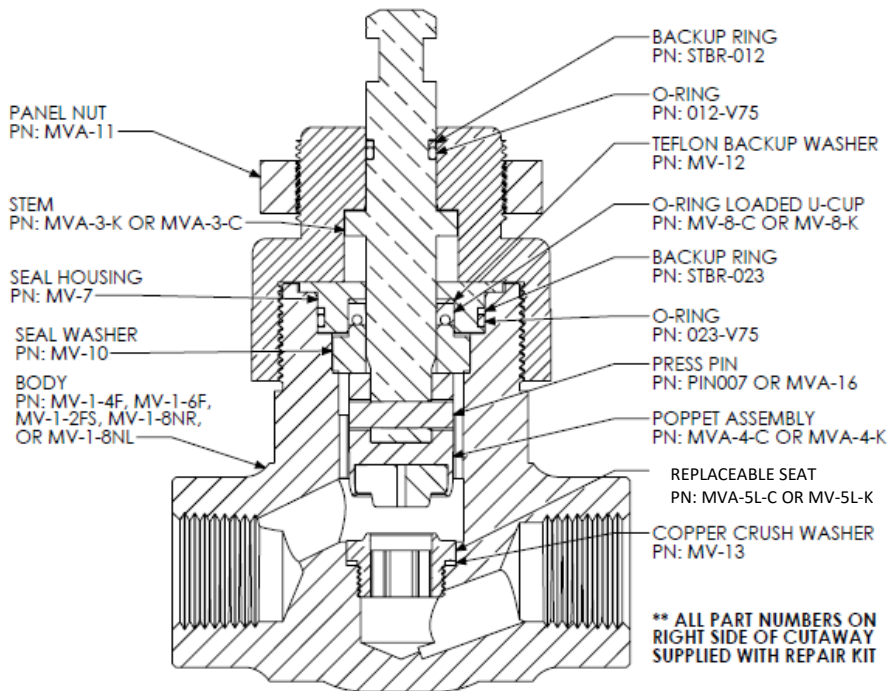
3. Place valve in vise and loosen panel nut from bracket using a 2" wrench.



4. Carefully unscrew the adapter from the piston while guiding valve out of bracket hole.

**Reattachment Process: (Above Process in Reverse)**

1. Ensure panel nut is in place and carefully screw the adapter into piston while guiding valve into bracket hole.
2. Place MVA into vice, and tighten the MVA panel nut to the bracket to a torque of 80 ft·lbs.
3. Using the 15/16" wrench, tighten screw adapter onto MVA stem until there is one thread visible between the lock nut and adapter as shown above in step one. (2-3 full turns)
4. Using 15/16" and 3/4" wrenches, tighten the lock nut to the cylinder piston.



**Warning:** Repair Kit MVA-C is supplied cleaned for use in Oxygen Service. Qualified personnel must perform maintenance work in a clean, dry area. Oil, grease or non-oxygen compatible materials must not be allowed to come in contact with any equipment used in oxygen service. Use extreme care to ensure hands, tools, clothing and work area are completely free of dirt, oils, and foreign matter to prevent contamination of component parts. Components used in service with any other gas cannot be put into oxygen service. Valves should be repaired and bench tested while removed from the system. **Generant assumes no responsibility or liability for products repaired in the field.**

**Compatibility:** To ensure proper repair kit compatibility, please verify that part number engraved on valve body calls out the same seat material as the repair kit.

e.g. MVA-8NR-K-NC requires repair kit MVA-K, not MVA-C.

### Generant's MVA Valve Disassembly/Assembly Process:

#### Disassembly:

1. Using 2-1/8" wrench, unscrew Bonnet from Valve Body.
2. Carefully pull valve Stem from Body. The Poppet Assembly, Seal Washer, and Seal Housing will all come out as well.
3. Push out press pin in Poppet Assembly from Stem.
4. Carefully slide Seal Housing and Seal Washer off.
5. Using a 3/8" Allen Wrench and extension, if necessary, unscrew Replaceable Seat from Body (Left hand thread).
6. Using caution not to scratch the Body, remove Copper Crush Washer.
7. Using caution not to scratch metal components, remove all soft seals from Stem and Seal Housing.

#### Assembly:

1. Place Copper Crush Washer over Replaceable Seat.
2. Insert Replaceable Seat and Copper Crush Washer assembly into Body and tighten to a torque of 55.0 ft·lbs (LH thread).
3. Lubricate all repair kit seals with Krytox 205 grease.
4. Install 012-V75 O-Ring and STBR-012 Backup Ring on Stem.
5. Install 023-V75 O-Ring and STBR-023 Backup Ring on Seal Housing.
6. Insert Teflon Backup Washer (MV-12) into Seal Housing followed by O-Ring Loaded U-Cup (MV-8-C or MV-8-K).
7. Lubricate face of Stem that engages seal with Krytox 205 grease.
8. Place Seal Housing with seals installed over stem. Do Not Press Seal Housing over Stem.
9. Place Seal Washer over Stem until it contacts Seal Housing.
10. Use the Seal Washer to press Seal Housing onto Stem.
11. Align poppet through hole with stem through hole and press new pin into place.
12. Carefully insert entire stem assembly into valve Body.
13. Press down firmly on Seal Housing until top of Seal Housing is nearly flush with the top of the valve Body.
14. Reinstall Bonnet and tighten to 80 ft·lbs.
15. See page 1 for the MVA Reattachment Process (bottom of the page).