



MV Series Repair Kits (Material Code "C" or "K")

All Porting Configurations

Repair Kit Part No.: MV2-C or MV-K

(Valid for Products Manufactured After Jan. 1, 2013)

Caution: These instructions should be thoroughly read and understood before attempting any repairs.

Compatibility: MV2-C Repair Kits may require a valve stem if the valve was manufactured before October 2016 (Date Code I16 or earlier). See "Series MV Repair Kit Selection Guide" for more information.

Additionally, 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. MV-8NR-K requires repair kit MV-K, not MV2-C.

Warning: Repair Kit MV2-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 the 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.**

Disassembly

1. Caution, ensure that all gas is evacuated from the system and no pressure is present on the valve.
2. Remove valve from system.
3. Open valve to full open position, remove handle.
4. Using wrench, unscrew Bonnet from Valve Body, remove Bonnet.
5. Carefully pull valve Stem from Body. The Poppet Assembly, Seal Washer, and Seal Housing will all come out as well.
6. Unscrew Poppet Assembly (LH thread) from Stem and slide Seal Housing and Seal Washer off.
7. Using a 3/8" Allen Wrench and torque extension, if necessary, unscrew Replaceable Seat from Body (LH thread).
8. Using caution not to scratch the Body, remove Copper Crush Washer.
9. Using caution not to scratch metal components, remove all soft seals from Stem and Seal Housing.
10. Remove Bearing Washers and Bearing.

Assembly

1. Using Krytox 205 grease or similar, lightly lubricate Copper Crush Washer and place over Replaceable Seat.
2. Insert Replaceable Seat and Copper Crush Washer into Body and tighten to a torque of 55.0 ft-lbs (LH thread).
3. Lubricate all repair kit seals with Krytox 205 grease or similar.
4. Install 012 O-Ring and Backup Ring on Stem.
5. Install 023 O-Ring and Backup Ring on Seal Housing.
6. Insert Teflon Backup Washer into Seal Housing followed by O-Ring Loaded U-Cup.
7. Lubricate face of Stem between threads and flange.
8. Using caution not to damage O-Ring Loaded U-Cup on Stem threads, place Seal Housing with seals installed over threaded portion of 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. Lubricate Stem threads.
12. Thread Poppet Assembly onto Stem until Poppet bottoms out.
13. Carefully insert entire assembly into valve Body.
14. Press down firmly on Seal Housing until top of Seal Housing is nearly flush with the top of the valve Body.
15. Lubricate Bearing and Bearing Washers and Slide over Stem.
16. Screw on Bonnet while keeping Stem from rotating.
17. Tighten Bonnet to 80 ft-lbs and replace Handle.
18. Reinstall into system.