



## CHEMLOCK® FILTER HOUSING CARTRIDGE AND O-RING

*Replacement guide*

1. Install the o-ring onto the Chemlock® housing using clean gloves to minimize possibility of contamination.

Replace the o-ring every time the housing is opened.



- a. Verify that the o-ring is installed in the housing. If not, properly seat an o-ring into the housing bowl, as described below.
- b. Prewet the housing o-ring with a fluid compatible with your process chemical (such as DI water, IPA, etc.) to aid in installation and ensure a proper seal.
- c. For best results, heat the o-ring to 60°C. prior to installation. Heat the o-ring by immersing in hot water for 2 minutes, or by placing the o-ring 25 mm (1") below a 250-watt heat lamp for 1 minute. Install the o-ring while it is still warm.
- d. For all housings, handle the o-ring with care. Insert the o-ring into the groove and push the o-ring securely and evenly in place. **DO NOT** roll or twist the o-ring.
- e. To remove the old o-ring, slide the hook end of the housing wrench tool under the o-ring, then slide the tool around the bowl.

2. Cut open the bottom of the bag only.



3. To ensure cleanliness, hold the cartridge by the bag, and insert it into the housing bowl.



4. Using the end of the bag, the two finger tabs on the key can be used to turn the cartridge  $\frac{1}{4}$  turn; then lock the cartridge in place. Lock the cartridge in place by turning it clockwise.



7. Once set, twist the lever at the end of the wrench clockwise to **LOCK** the setting in place.



5. Attach and tighten the bowl to the housing head. The housing can be mounted in either a bowl Up or bowl Down position.



8. Tighten the housing ring until the torque wrench clicks. Stop and retighten until another click is heard.



6. Adjust the torque setting to 45 N•m if using an E-FKM o-ring. For other o-ring types, 28.5 N•m.



9. Wait 5 minutes before continuing. After waiting 5 minutes, retighten the locking ring according to the previous step (#7). You may see the locking ring move again. This is normal.

10. Reset the torque setting to 10 N•m for storage.



11. Housing Integrity Testing

Prior to usage, the piping system should be tested to check for leaks. Follow your facility leak checking protocols.

**WARNING:** IF SYSTEM IS SHUT DOWN, IT IS NECESSARY TO RETIGHTEN THE HOUSING IN ORDER TO PREVENT LEAKS.

**CAUTION:** DO NOT tighten or adjust the plumbing at elevated temperatures (>100°C) as you may overtighten the fittings and create excessive stress and leakage either at elevated temperatures or during changes in system temperature.

Note: Yearly calibration of the wrench is recommended. Include periodic seal integrity testing in your system's preventative maintenance schedule.

12. Isolate and drain the housing. If necessary, allow the housing to cool to a workable temperature. Use the housing wrench to loosen the housing ring.



13. Remove the bowl from the head.



14. Turn the cartridge key to unlock the cartridge from the bowl.



15. Lift the cartridge out of the bowl or tip the bowl to gently slide the cartridge out of the bowl.



16. To view a video showing correct procedures for o-ring replacement and housing installation, go to [www.entegris.com](http://www.entegris.com) in the Chemlock housing section.

## For More Information

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