




O-Ring Replacement and Recommended Lifetimes

For o-rings used in a variety of housings

 **WARNING!** Wear chemical-resistant garments and eye protection appropriate for your installation and chemical. Obtain the chemical supplier's MSDS sheets for specific health and safety information.

 **WARNING!** Teflon®-encapsulated o-rings are not recommended for use with hydrofluoric acid.

 **CAUTION!** Fittings and components damage easily; handle with extreme care. Do not twist, roll, or scratch any o-ring or part. Never over-tighten any part.

This document summarizes the steps to replace an o-ring in a variety of housings. Please refer to your housing documentation for specific instructions for o-ring replacement and bowl tightening specifications.

Recommended lifetimes for Teflon encapsulated and Viton® o-rings used with NH₄OH:

- 25°–40°C (77°–104°F): 2 years
- 40°–70°C (104°–158°F): 1 year
- 70°–100°C (158°–212°F): 6 months
- >100°C (212°F): Not recommended

NOTE: Frequent opening of the housing will reduce the lifetime.

REPLACING AN O-RING

1. Isolate the housing from any flow; turn off upstream and downstream valves.
2. Open the housing vent; then open the drain and drain all fluid.
3. Use an appropriate housing wrench to carefully open the housing bowl and remove the used filter.
4. Use an appropriate tool (nonmetal) to remove the o-ring.
5. Rinse the housing thoroughly with DI water.
6. Pre-heat Teflon-encapsulated or Viton o-rings in hot water or with a heat lamp as follows:
 - Hot water: immerse the o-ring in hot water (50°–60°C [122°–140°F]) for two minutes.
 - Heat lamp: place the o-ring 1" from a 250-watt heat lamp for one minute. Heat only one side.
DO NOT overheat.

NOTE: Do not let the o-ring cool down. Continue with the installation procedure while the o-ring is still warm.

7. Gently push the o-ring into the o-ring groove on the housing with clean gloved fingers. **DO NOT STRETCH or ROLL** the o-ring.
8. Install a filter in the bowl, then reinstall the bowl on the housing head. Gently tighten to the required torque for your housing.
9. For a Teflon-encapsulated o-ring, allow the head to sit for one hour while the o-ring cools and sets.
10. Resume flow and check for leaks. Reinspect the o-ring and retighten if required.

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PURE ADVANTAGE

Corporate Headquarters

129 Concord Road
Billerica, MA 01821
USA

Customer Service

Tel +1 952 556 4181
Fax +1 952 556 8022
Toll Free 800 394 4083

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