



## INSTALLING/REMOVING ELEMENTS

Only qualified personnel should install/remove elements. Do not use gas or hydraulic pressure to remove a pressure vessel end plate or element from a pressure vessel.

1. New elements are shipped in vacuum sealed three-ply bags that are packaged in individual cardboard boxes or styrofoam cartridges. Please inspect all elements for signs of physical damage that may have occurred during shipping.
2. Remove the elements from their plastic bags and stand vertically with the brine seals at the bottom. Check that each element brine seal has a light coating of Parker Super-O-Lube or glycerine.
3. Open and remove the pressure vessel end caps and check that the permeate connector O-rings are in place. Place a small amount of Parker Super-O-Lube or glycerine on the permeate connector O-ring.
4. Insure that the inside bore of the pressure vessel are clean and free of dirt, dust, or foreign objects.
5. Load elements from feed side of pressure vessel. Insert the inboard end connector to the downstream end of the first element (side opposite brine seal) and load halfway into the pressure vessel.
6. Insert the element interconnector into the feed end of the element (side with brine seal). Make sure the interconnector O-rings are lubricated with Parker Super-O-Lube or glycerine.
7. While holding the first element, connect the downstream end of the next element to the interconnector of the first element. Load with brine seal facing installer.
8. Push the element stack into the pressure vessel until half of the second element is inside the pressure tube.
9. Repeat steps 6-8 until the vessel is loaded.
10. When all the elements have been loaded into the vessel, push the stack to the downstream side of the pressure vessel until the downstream inboard adapter will connect with the downstream end cap.
11. Install the downstream end cap and spacer tube, then push the entire membrane stack as far as possible towards the downstream end cap.
12. Install the upstream inboard adapter and connect to the upstream end cap. Install the upstream end cap and connecting piping.
13. Repeat steps 3-12 for the remaining pressure vessels.
14. Start the system and run both the concentrate and permeate into the drain for 30 minutes to insure adequate flushing of the preservative solution.
15. After the system has stabilized, take a full set of performance readings.



#### **ELEMENT DISPOSAL:**

Dispose of elements by burying in accordance with locally acceptable landfill regulations. Do not incinerate.

#### **USE OF PRODUCT WATER AND DISPOSAL OF BRINE WATER:**

Check local and all applicable health regulations for standards regarding potable water and follow local and all applicable standards regarding effluent discharge.

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**CAUTION: *Follow manufacturers' recommendations on containers or in product bulletins for the safe handling of all chemicals and cleaning agents used with TriSep reverse osmosis products.***

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