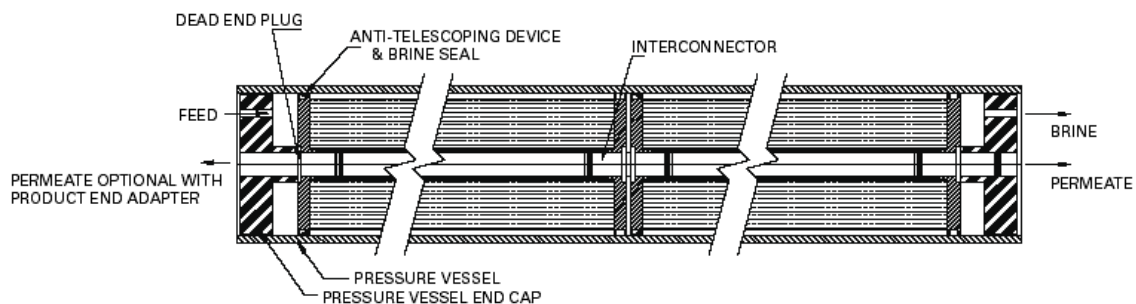


Element Loading Instructions

TECHNICAL BULLETIN

1. Load the first element into the upstream or feed end of the pressure vessel. The brine seal should face the upstream end of the vessel to prevent feed bypass when the unit is in operation. Leave 6" of the element exposed beyond the end of the pressure vessel to facilitate loading succeeding elements.
2. Record the serial number and location of the element.
3. Apply a Veolia approved lubricant¹ to the O-rings of an interconnector and the element brine seal. With a twisting motion, insert the interconnector into the central tube on the upstream end of the loaded element. Rotate the interconnector to ensure that the O-rings have been seated.
4. Line up another element, so it connects with the interconnector of the previous element. Push all elements forward until about 6" of the latest inserted element extends beyond the feed end of the pressure vessel.
5. Record the serial number and location of the second element.
6. Repeat the loading process from step 3 above for the remaining elements.
7. When all elements have been loaded into the pressure vessel, insert permeate end adaptors with O-rings that have been lubricated with a Veolia approved lubricant into the first and last elements in the vessel.
8. Install the thrust ring at the downstream end of the vessel.
9. Connect the pressure vessel end caps to the respective permeate end adaptor and secure the end caps.
Note: If the vessels require a thrust cone/load transfer device, ensure this is installed at the downstream end of the vessel (based on direction of feed flow through the housing).
10. The following figure illustrates the correct placement of interconnectors and elements within a vessel.

Typical Installation



¹Glycerol, glycerin, and silicone grease (but not silicone oil) are approved Veolia lubricants for elastomers in membrane systems. Some industries do not approve of silicone grease because of the remote possibility that excess grease is released and contaminates downstream equipment. Examples of these industries are the semiconductor industry and ED-paint plants.