



FILMTEC™ Membranes

Loading of Pressure Vessels: Element Removal

Element Removal

Standard elements - Two operators are recommended when removing NF or RO elements from a train or system. Remove the element from each pressure vessel as follows:

- a. Disconnect the hard plumbing at each end of the pressure vessel. Refer to the vessel manufacturer's drawing as required. Mark or tag all removed items for return to the same location. Note: Numbering of the endplates and reinstalling in the same vessel is very important, this makes reinstallation much easier and all the connections will line up properly.
- b. Remove the end cap assemblies from each end of the pressure vessel.
- c. Push the NF or RO elements from the pressure vessel in the same direction as feed water flows. Push the elements out one at a time. Support each element as it is being pushed out of the vessel until the element is free of the pressure vessel.

ILEC™ elements - With the vessel endplug removed, the downstream vessel adapter can be disconnected. This is done by reaching into the vessel and applying counter-clockwise torque to the downstream adapter.

- a. Attach the optional pulling tool with a clockwise twisting motion
- b. Pull the stack of elements far enough out of the vessel so that the first element can be safely removed.

Remember, elements may become disconnected inside the vessel during unloading, so use caution when pushing or pulling elements from the vessel.

- c. With the element supported, de-couple the element with a counter-clockwise twist. Sometimes, it works best to face away from the vessel when unlocking.
- d. Repeat this operation until the vessel is emptied. As an alternative to pulling the elements from the vessel, the entire stack can be pushed from the opposite end of the vessel with a push rod, or with replacement elements.

FILMTEC™ Membranes
For more information about FILMTEC
membranes, call the Dow Water
Solutions business:

North America: 1-800-447-4369
Latin America: (+55) 11-5188-9222
Europe: (+32) 3-450-2240
Pacific: +60 3 7958 3392
Japan: +813 5460 2100
China: +86 21 2301 9000
<http://www.filmtec.com>

Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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