

Element Loading Guide Unloading of Pressure Vessels

The following guide is intended to provide information on safely loading with TRISEP® reverse osmosis (RO), nanofiltration (NF), ultrafiltration (UF) and microfiltration (MF) elements. For additional unloading instructions, please contact MANN+HUMMEL Water & Fluid Solutions Technical Service or the individual pressure vessel manufacturer.

SAFETY EQUIPMENT

Having proper equipment is essential for safely executing the following start-up procedure. Appropriate gloves, shoes and safety glasses should be worn at all times. Additional equipment may be necessary depending on specific system design.

ELEMENT UNLOADING

Two operators are recommended when removing elements from pressure vessels. Remove elements from each pressure vessel as follows:

1. Disconnect the hard plumbing at each end of the pressure vessel.
2. It is recommended to mark or tag all of the removed items (end cap assemblies, etc.) and note which pressure vessel they came from to make re-installation easier. This will ensure that all connections will line up properly.
3. Remove the end cap assemblies from each end of the pressure vessel.
4. Push the elements in the same direction that feed water flows and out the concentrate end of the pressure vessel. Push the elements out one at a time, supporting each element as it is being pushed out of the vessel until the element is free of the pressure vessel.
5. Repeat steps 1 through 4 until all of the elements have been removed from the pressure vessels.

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