



## UFS Corporation

330 North 400 East  
Valparaiso, IN 46383-9704 USA  
PH: 219-464-2027 FAX: 219-464-8646  
www.ufsc.com  
email: service@ufsc.com

# Installation Reference

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## Topic: Threaded Overflow Nozzles

*Please read all the instructions listed below carefully to familiarize yourself with the project before unpacking any further or attempting to perform any of the work.*

### Required Materials

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- TEFLON Tape

### Required Tools

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- 17 mm (11/16") open end wrench for 12.7 mm (1/2") Return Tubing
- 22 mm (7/8") open wrench for (3/4") Return Tubing

Before you operate your Membrane Shell it needs to have the Overflow Nozzle installed first. In most cases the Overflow Tubing size is 12.7 mm (1/2") by 17.5 mm (11/16") and the OD of the Overflow Nozzle Hose barb is 15.9 mm (5/8") **NOTE:** With the larger hose barb, a hose clamp is not required.

If the Membrane Shell is very long (usually with an effective length of 2900 mm (114.2")), then the larger Overflow Nozzle should be used. Therefore, the Return Tubing size is 19.1 mm (3/4") by 25.4 mm (1") and the Overflow Nozzle Hose barb is 19.1 mm (3/4"). Even in this case a hose clamp is generally not required.

In either case, the actual Overflow Nozzle has male National Pipe Threads (NPT) on one end and a hose barb on the other end.

1. Find the Overflow Nozzles in a separate bag. If the threads do not have TEFLON tape, then apply tape as required.
2. Remove the Membrane Shell from the carton or crate taking care not to damage it.
3. Engage the threaded end of the Overflow Nozzle into the female thread boss in the Neck of the Membrane Shell. This boss is usually about 150 mm (6") from the top of the Membrane Shell. Tighten with the wrench.
4. As an alternate method, the Membrane Shell can be installed in the ED tank first. Use a deep well socket instead of the wrench.

**For more information** see the original manual that came with the equipment or call UFSc at the phone number shown above.