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Installation Reference

Topic: Some PVC Assembly Required

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

Required Materials

- PVC Primer and Heavy Body Glue
- Teflon Pipe Thread Tape

Required Tools

- Pipe Wrench
- Open Wrench(es)

In some cases, it is not practical to ship a complete Membrane Electrode Cell, or PVC Manifold, due to the overall length and width that might make the shipping charges exorbitantly high. For these situations, UFS Corporation recommends to ship these products in a knocked down or kit form. Please refer to the drawing of your product(s). It might be a TECTRON™ Cell, Electrolyte Circulation System, or a Supply and/or Return Manifold. The connection required in the field could either be threaded, flange, or solvent weld (glue).

1. Use the diamond match marks and the number to match together the two pieces of PVC that are to be joined.
2. For example, the diamond with the number one inside of it should be matched up to another piece with the diamond and the number one. In the same manner, the two pieces with the diamond and the number two need to be joined, and so on until there are no more un-matched items.
3. Start with the lowest number first. Determine if the joint type is one of the following:
 - A. **Threaded:** Use a single layer of Teflon pipe tape on the threads in the same direction as the threads. Thread the two pieces together and remember that the pipe threads do not really seal until they are fully engaged because they are tapered.
 - B. **Flange:** All flanges require a gasket. (Ask your paint supplier for a

compatibility list, if there is a question.) If the joint is to be submerged, then use only stainless hardware. **NOTE:** The diamonds must be aligned afterwards for proper operation.

- C. **Solvent Weld:** Clean off both pieces with dry cloth. Apply the primer to each surface a minimum of two times, then quickly apply the glue to both surfaces. Insert the smaller piece and give a 1/3 twist about half way in and then set the two parts together and hold the parts for at least 15 seconds. **NOTE:** The diamonds must be aligned afterwards for proper operation.

For more information refer to the instructions on the containers of the PVC primer and glue. Check your plant vendor library for any booklets from a supplier of PVC fitting, such as Spears, or equal.