



Recommendations for Dealing with Sodium Hypochlorite Leaks

One of the most commonly reported problems we hear from customers is Sodium Hypochlorite leaking from threaded and solvent welded connections. Offered below are recommendations that can help mitigate this problem.

For pressure applications, CPVC (Corzan) pipe, fittings, valves and accessories are recommended for use with NaOCl.

Normal PVC glue is not recommended for use when solvent welding. Fumed silica is used as a thickening agent in PVC Cement and is dissolved by the Hypochlorite leaving the glue joint porous and susceptible to leaks.

NSF61 approved chemically resistant Weld-On 724 CPVC cement is recommended. Individuals applying this cement should follow the installation practices as found under ASME B 31.3.

Threaded fittings should be avoided when using NaOCl. Flanged and Solvent Welded connections are preferred. But if you are using threaded connections, an online recommendation is to use the adhesive E-6000 as a thread sealing compound. See <http://eclecticproducts.com/products/e6000/>
This product can even be used with solvent weld connections.

This link <https://www.wef.org/globalassets/assets-wef/direct-download-library/public/operator-essentials/wet---operator-essentials---sodium-hypochlorite---march11.pdf> provides best practices when dealing with Sodium Hypochlorite.

Finally, pulsation and vibration caused by most metering pumps can damage glued connections. A properly sized and installed Pulsation Dampener will help with this problem.