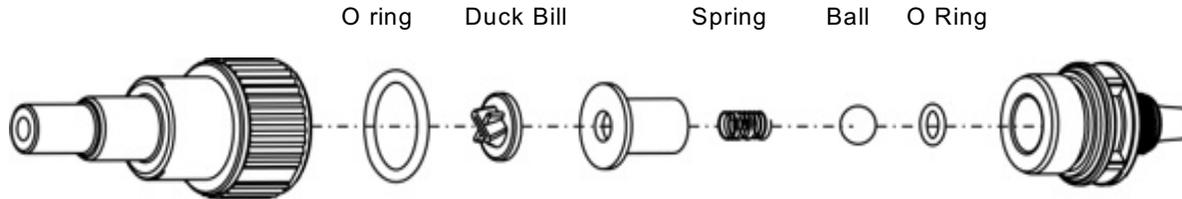




## FEED PUMP CHEMICAL INJECTORS



Exploded View (ball check valve)

### Injection Fitting

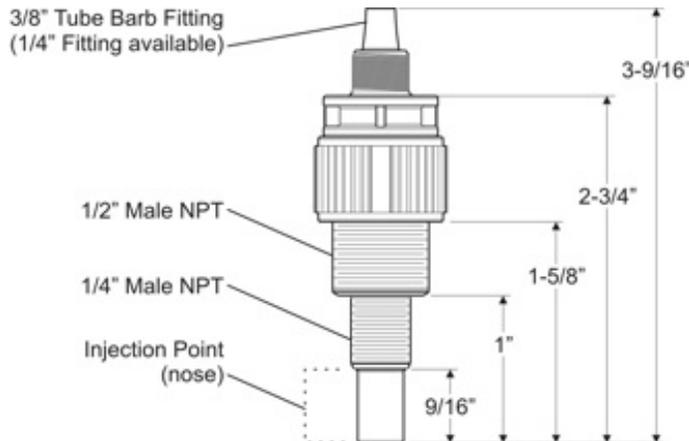
Cut an appropriate length of discharge tubing (opaque tube). Push one side of the tubing onto the compression barb of the Injection Fitting. Use the tube nut to secure the tube. Hand tighten only.

The exploded view drawing above shows the "tube nut" on the far right hand side. The part to the left side of the "tube nut" is the "compression fitting" that the tube must fit onto.

### Cleaning:

The Injection Fitting (check valve) will require periodic cleaning, especially when injecting fluids that calcify such as sodium hypochlorite. See our "How To" page on cleaning your Injection Fittings.

### Injection Fitting (check Valve) installation.



The Injection Fitting is designed to install directly into either 1/4" or 1/2" female pipe threads (NPT).

You can trim the injection point (nose) if needed.

The nose section is designed to inject the chemical away from the wall of your pipe.



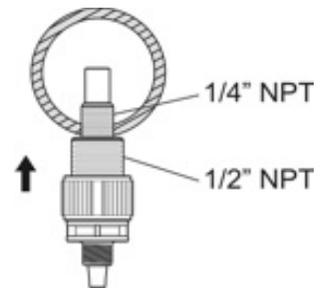
## FEED PUMP CHEMICAL INJECTORS

A Injection fitting prevents backflow from a treated Line. They must be checked on a Regular basis for proper operation of you pump. They have 1/4" and 1/2" Male NPT Threads for pipe installation.

### You can install the Injection Fitting directly into pipe.

Drill the correct size hole and then tap the hole for 1/4" or 1/2" NPT. Use Teflon<sup>®</sup> thread sealing tape on the pipe threads of the Injection Fitting.

This illustration shows the Injection Fitting installed directly into pipe using the 1/4" threads. The injector can be installed at any angle, top of pipe, side or bottom as shown

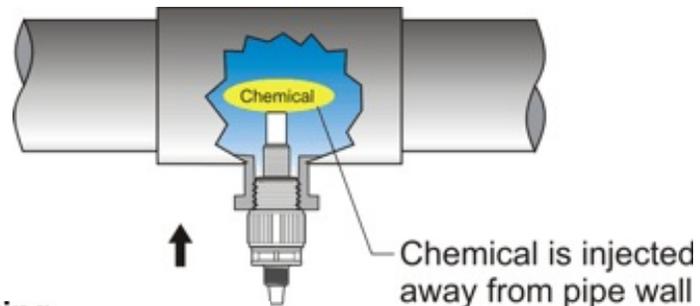


### You can install the Injection Fitting directly into a tee fitting.

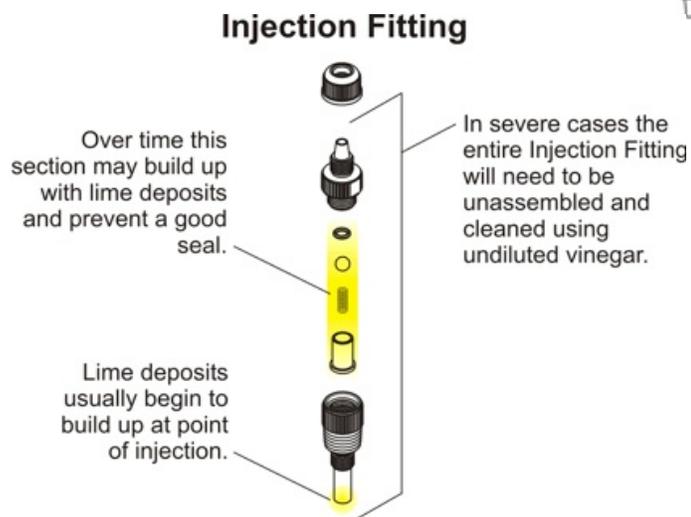
The solution must inject directly into the flow stream.

Use Teflon<sup>®</sup> thread sealing tape on the pipe threads of the injector

This illustration shows the Injection Fitting installed in a tee fitting using the 1/2" threads.



### Injection fitting maintenance



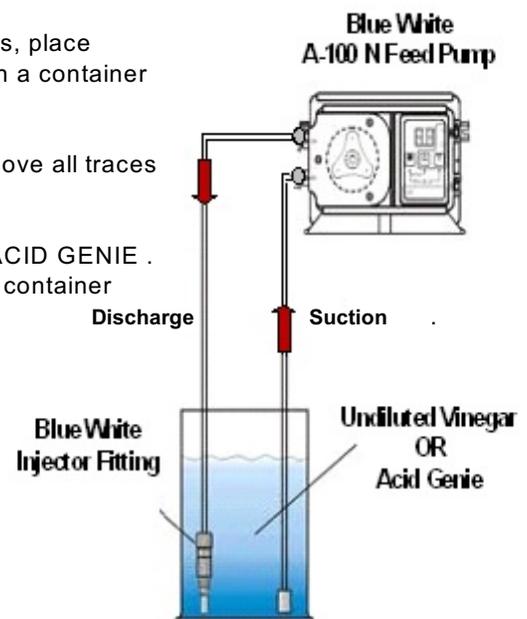


## How to Clean your Chemical Injector Fittings and Feed Pump

Periodically clean the injection fitting / check valve assembly, especially when injecting fluids that calcify such as sodium hypochlorite.

These lime deposits and other build ups can clog the fitting, which will increase the back pressure and interfere with the pump accuracy. **Warning:** Severe cases can physically damage the injection fitting and the increase back pressure can cause increased wear on the pump components; gears, bearings and pump tubes. Please follow these steps when cleaning your injection fitting / check valves.

1. Wash the pump, tubing and fittings out with clean water. To do this, place the "suction tubing" and "discharge tubing" (injection fitting too) in a container full of clean water.
2. Let the pump run in the clean water for about 10 minutes to remove all traces of chemicals
3. Remove the lime deposits with undiluted vinegar or **ACID FREE ACID GENIE**. To do this, place the "suction tubing" and "discharge tubing" in a container full of undiluted vinegar or Acid Genie See image to the right
4. Let the pump run in the undiluted vinegar for 5 to 10 minutes (longer if needed).
5. Flush out your pump, tubing and fittings to remove any excess vinegar. To do this, repeat steps 1 and 2.



Tip: Follow the same steps above to clean a foot valve.

Tip: Standard Injection Fittings are made of Polypropylene. PVDF Injection Fittings are recommended for use with aggressive chemicals which are not compatible with Polypropylene. PVDF Injection Fittings should be considered for use with chlorine at elevated temperatures.

Tip: Blue-White recommends that you purchase a spare Injection Fitting for your pump. This is commonly the most neglected part of most pump installations.

**Caution:** Always wear protective clothing, face shield, safety glasses and gloves when working on or near your Chemical feed pump. Additional precautions should be taken depending on the solution being pumped. Refer to MSDS precautions from your chemical supplier.

