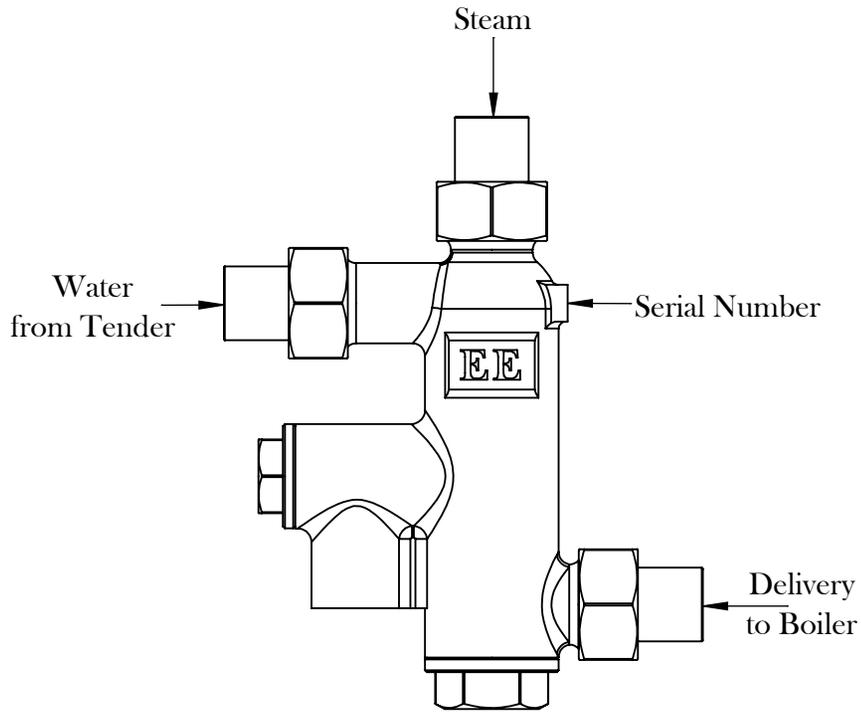


2

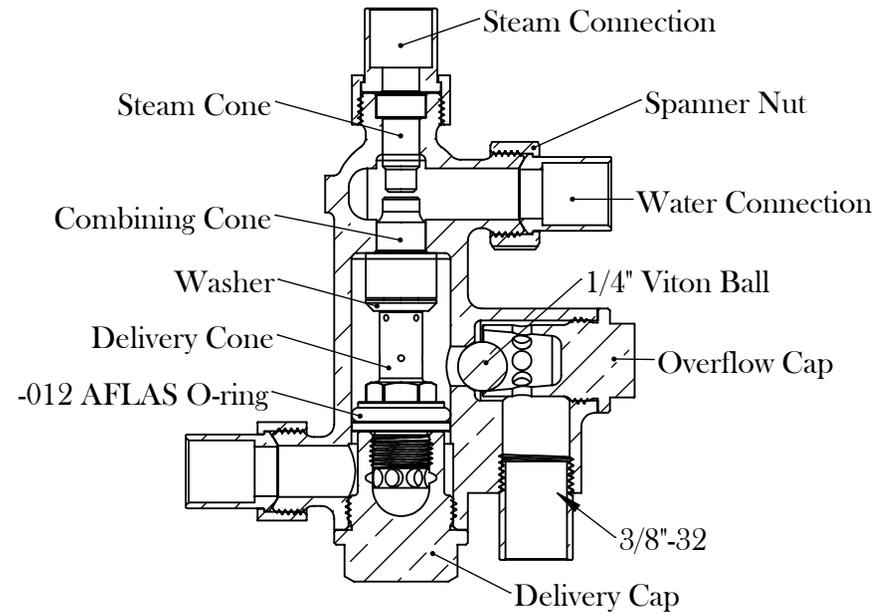
1

B

B



(SuperScale Compatible)



(EE Standard Compatible)

### Notes on Installation

All connections should be silver soldered.

The most critical part of the installation is between your water adjustment valve and the injector. This line must be completely air tight. Use as few fittings as possible to reduce potential failure points, and avoid using compression fittings.

A filter on the water line is strongly recommended to keep your injector working properly. Dorman "Help!" filters have proved to work very well and have a replacable screen. They are available from Amazon and O'Reilly Auto Parts.

Do not use tubing smaller than 5/16" for the overflow. If the overflow tube needs to be particularly long, 3/8" tubing is preferable.

These injectors are designed to lift and are automatically restarting. Feel free to install them bellow the cab or high up against the boiler!

2

1

A

A

### Maintenance & Troubleshooting

If your injector is not working properly look for these common issues:

1) Trouble lifting and sputtering during operation  
Any air leak in the water line can be detrimental to your injector's performance. Check to make sure the water inlet union nut is tight (A), and ensure that all joints and fittings between your tender and this nut are air tight.

2) Difficult to operate with a "dry" overflow  
Over time the cones may receive considerable build up of scale and deposits. This may prevent the washer (B) from moving freely. This scale can also coat the insides of the cones reducing overall performance. The delivery cone and washer can be removed by unscrewing the bottom cap. The delivery nozzle can then be unthreaded from the cap. Briefly soak them in 50/50 CLR and water. For best results use an ultrasonic cleaner for 2-5 minutes. Do not clean your injector more than 1-2 times annually unless it is absolutely necessary.

3) Injector lifts water but won't deliver to boiler  
A fine filter is strongly recommended for your water line from the tender to the injector. However, even with a good filter, sometimes particulates can lodge themselves into the middle of the delivery cone. A clogged delivery cone will prevent an injector from delivering entirely. Upon removal of the delivery cone, make sure light is visible through the 12 holes (C). If they appear clogged, 21 gauge copper wire or smaller may be used to remove any obstructions. The safest way to dislodge debris in the delivery cone itself is to push it out from the threaded end toward the end with the cross-drilled holes.

This may also be caused by operating outside of the injectors pressure range (30-150psi), improperly adjusted water valve, or insufficiently sized piping.

B

B

A

A

