

Installation, Maintenance and Troubleshooting:

Silver Solder is highly recommended for the installation of your water and steam lines to the injector. Soft solder may result in a failed joint and a face full of hot steam.

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

1) Trouble lifting and sputtering during operation

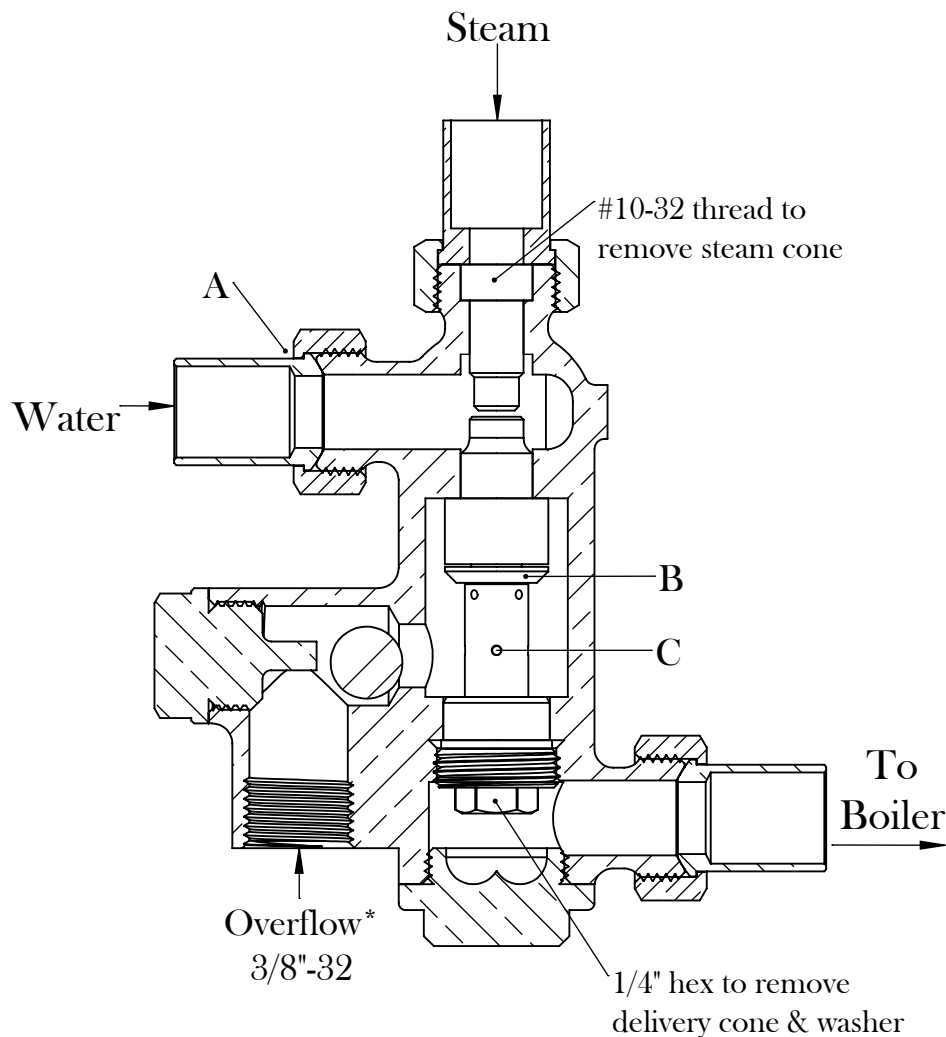
Any air leak in the water line can be detrimental to your injector's performance. Check to make sure the water inlet union nut is tight (A), and ensure that all joints and fittings between your tender and this nut are air tight.

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 them from the body with a 1/4" socket. Briefly soak them in warm vinegar and rinse thoroughly to clean these components.

3) Injector entrains water but won't deliver

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. But take great caution not to damage the internal surface of this cone!



*It is important to note that if water spills from the overflow during operation, the injector is not properly delivering water. Above 75psi, the injector should operate with a dry overflow with the water valve wide open. However, if water begins to dribble out of the overflow, restricting the water valve will allow it to deliver to your boiler properly. When boiler pressure returns, the water valve will need to be opened wider again to resume proper operation.

Eccentric Engineer

TITLE:

Standard Injector

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SIZE

A

DWG. NO.

Operation Info

REV

SCALE: 1:1

WEIGHT:

SHEET 1 OF 1