B

Steam from boiler

#8-32 thread to remove steam cone

A

Water from tender

B

C

Delivery to boiler

Overflow*
5/16"-40

Delivery cone is removed along with the cap. The delivery cone can then be unscrewed from the cap with a 5/16" wrench or socket for proper inspection and cleaning.

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) Won't pick up, sputtering overflow, or high starting pressure
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) Injector is abnormally sensitive and tends to dribble
Over time the cones may recieve 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. A 2-3 minute wash in an ultrasonic cleaner is the best and safest way to clean your injector's internals.

3) Injector blows steam out overflow and/or back to tender
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, 19 gauge copper wire may be used to push the obsctruction out through the middle of the cone. Always push from the threaded end of the delivery cone toward the end with the cross drilled holes!
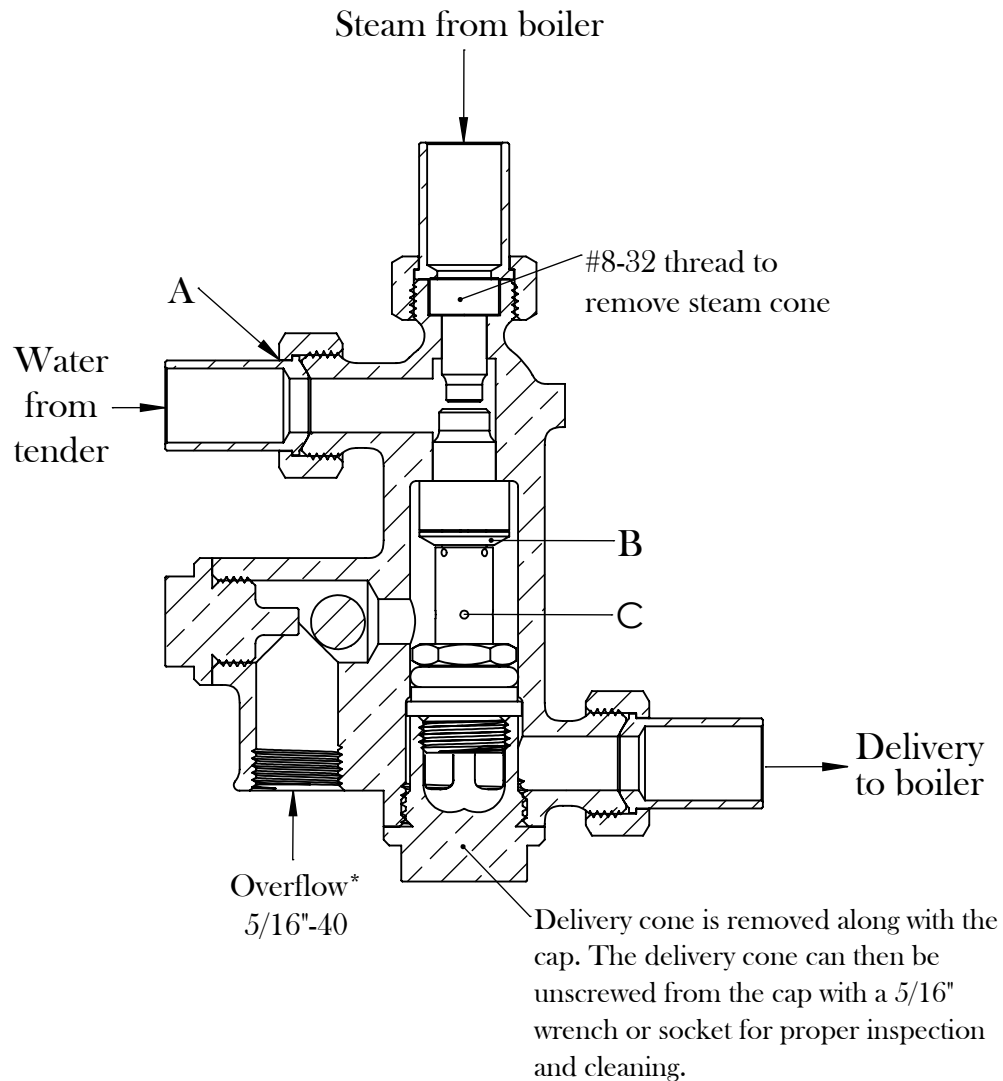
*It is important to note that if water is visible from the overflow during operation, the injector is not properly delivering water. Opening or restricting the water valve will help the injector to run "dry." A water valve with fine adjustment, such as a needle valve, is strongly recommended.

Eccentric Engineer		
TITLE: Intermediate Injector		
SIZE **A**	DWG. NO. Operation Info	REV
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1