MAINTENANCE INSTRUCTIONS FOR BVG AERATORS

Scope

The purpose of this document is to outline the steps required to inspect and properly torque an aerator cone (BVG207A) from a BVG style outlet gate.

Procedure

1. The outlet gate will need to be removed from the car prior to continuing. Care should be taken when removing the outlet gate to prevent any damage to the outlet gate, hopper car, fasteners, or gate gasket.
2. With the outlet gate removed from the car, visually inspect all of the blue aerator cones for any signs of damage. Cuts or tears on any surfaces of the aerator cone are not allowed. See figures 1 through 3 for examples of possible aerator cone conditions that would require replacement. See figure 4 for an example of an aerator cone in perfect condition.
3. If an aerator cone requires replacement, loosen and remove the 3/8" hex bolt with a 9/16" ratchet. The hex bolt and aerator cone assembly should be discarded and not reused.
4. A new aerator assembly can be placed over the mounting hole and the new hex bolt should be hand threaded to begin engagement.
5. While pressing down on the aerator cone, a ratchet can be used to tighten the hex bolt until the head of the hex bolt just contacts the aluminum insert of the aerator cone.
6. A torque wrench with 9/16" socket should be used for the final tightening of the hex bolt. The acceptable torque range for the aerator cone is 25-30 ft-lbs.
7. The remaining aeration cones should also be checked with the torque wrench for appropriate torque.
8. The outlet gate is ready to be applied to a car flange with appropriate gate gasket and fasteners. See Salco Products Installation Instructions for Gate Gaskets for proper procedure.
9. After gate installation, ensure the 16" product valve opens and closes completely.
10. Inspect latches, cover, and product valve to ensure they are properly closed once complete.

Figure 1. – Cuts into the cone.

Figure 2. – Cone top not properly seated under aluminum insert bushing.

Figure 3. – Rips and tears in cone.

Figure 4. – A perfect cone with no cuts or tears. The cone top is also perfectly seated under the aluminum.