

EC7 Facilities Engineering Division

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Memorandum

To: Facility Owners with Chlorination, Engineering Design Firms, and Plumbers Installing Chlorine Injector Valve Assemblies

From: R. Allyn Lewis, P.E., Chief, Construction Section, Facilities Engineering Division

Date: May 3, 2011

SUBJECT: CHLORINE INJECTOR CHECK VALVE ASSEMBLY MAY BE INSTALLED INCORRECTLY

Please check the two illustrations below to determine if your injector is properly installed. If it is not, the Water Supply Division will pick up the error during their Water Quality Survey and require it to be corrected. We have found a number of improperly installed injector assemblies that have been installed by plumbers who do good work, but they did not understand the proper installation of the injector. We have found some injector assemblies installed with a valve to isolate the injector so it could be removed and cleaned if necessary. By installing a valve (see Figure A), the injector is not in the flow stream and a more concentrated chlorine solution could sit stagnant and cause corrosion and leaks. At the injection point, the injector tip should be in the center of the pipe so there is a steady stream of water to mix with the chlorine solution as it is pumped into the water supply flow stream (see Figure B).

Figure A - This is an incorrect installation of the Chlorine Injector Check Valve Assembly through a ball valve

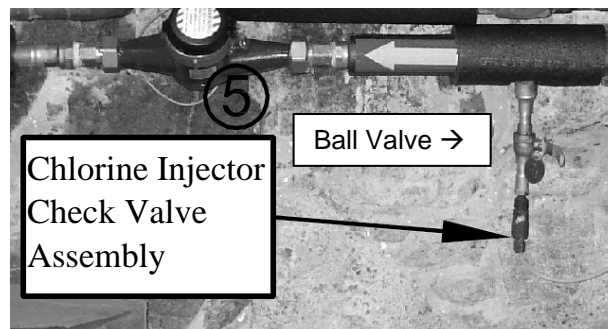


Figure B - This is the proper way to install the Chlorine Injector Check Valve Assembly (note that injector Tee should be Brass or PVC to resist corrosion)

