

Dispenser Installation to Water Systems:

It is essential that Streamline air gap dispensers be connected to water supply systems in accord with local regulations. Such regulations are often specific about the materials used to convey water from the supply system to the dispenser and about the effect of the installation on atmospheric vacuum breakers built into a supply source.

1. *Connection materials*

Rigid or flexible pipe and tubing can be used successfully. Since such materials are ahead of the air gap protection dispenser, they are generally required to be approved for potable water contact. In some jurisdictions there are flexible rubber hoses which are acceptable. Water connection by soft copper tubing with compression fittings, "hard plumbing" such as in-building construction, and use of IAPMO listed flexible hose assemblies are generally acceptable. Aqua-Flo is a major brand of IAPMO listed flexible hose assemblies. It is important to know the requirements which apply to the area of intended installation so that they can be properly met.

2. *Pressure Relieving Connection Tee*

There are installation challenges which the desired water source is a faucet with a built-in atmospheric vacuum breaker. Permanent connection to such a faucet prevents other uses of the faucet, and it will probably compromise the effectiveness of the built-in vacuum breaker, since atmospheric vacuum breakers are not to be held under constant pressure. These installations can often be successfully achieved by using a connection device which allows a small discharge of water from a venting port. Such a construction is Hydro's Model 195 (illustrated at right). This device is a tee fitting which quick connects to a faucet outlet. The side leg of the tee is fitted to a flexible tubing assembly to convey water to the dispenser, and this is attached as a permanent part of the dispenser. The other leg of the tee is equipped with a small orifice and outlet fittings such that water always runs from the orifice. With this construction, the water source can be quick connect coupled to the sink, allowing other uses. The regular discharge from the orifice serves as a reminder to shut off water when dispenser use is complete, and when the supply is shut off, the orifice relieves pressure in the supply line to prevent the vacuum breaker in the faucet from being held under pressure.

