

### 9.10.3 Chemical Dispensers

Chemical dispensers are typically connected to potable water systems and therefore need backflow protection to prevent the concentrated cleaning chemicals from contaminating the water distribution system.

A PWS may allow the installation of chemical dispensers provided they have been approved by the Board of State Examiners of Plumbers and Gas Fitters and are installed with the following conditions:

#### HARD PIPED

1. The dispensers shall be installed by a Massachusetts licensed plumber.
2. The installation of the dispenser shall be hard piped using Board of State Examiners of Plumbers and Gas Fitters product approved materials.
3. Chemical dispensers equipped with an internal Air Gap or an alternative Certification of Listing under the ASSE 1055B Standard shall at a minimum have a dual check valve with an intermediate atmospheric vent installed at the incoming water supply line to the dispenser.

Chemical dispensers not equipped with an internal Air Gap or an alternative Certification of Listing under the ASSE 1055B Standard shall have a reduced pressure backflow preventer (RPBP) installed at the incoming water supply line to the dispenser.

#### HOSE CONNECTION

1. All dispensers shall have an Air Gap or, an alternative Certification of Listing under the ASSE 1055B Standard.
2. Dispensers shall include a dual check valve with an atmospheric vent device installed at the water inlet as a secondary backflow protection.
3. A stainless steel braided hose must be used.
4. A pressure bleeder device shall be provided which will visually free flow water through the atmosphere from the faucet connection to a sink or drain. The purpose of the bleeder device is to indicate that the water is running and should be shut off to prevent hot water migration. The bleeder device shall connect to the water source utilizing a quick disconnect coupling.
5. All external components will be permanently installed on the dispenser by the manufacturer and be ready for installation and use. External components include the dual check valve with atmospheric vent, stainless steel braided hose and the pressure bleeder device.
6. Chemical dispensers not equipped with an internal Air Gap or an alternative Certification of Listing under the ASSE 1055B Standard shall have a reduced pressure backflow preventer (RPBP) installed at the incoming water supply line to the dispenser.

#### Note:

Devices that attach to the Faucet shall be arranged so it is one piece that will not allow the removal of the bleeder from the Quick disconnect portion of this device.

<http://www.mass.gov> Board of State Examiners of Plumbers and Gas Fitters Board Policies (PL)  
Regarding Chemical Cleaning Dispensers