



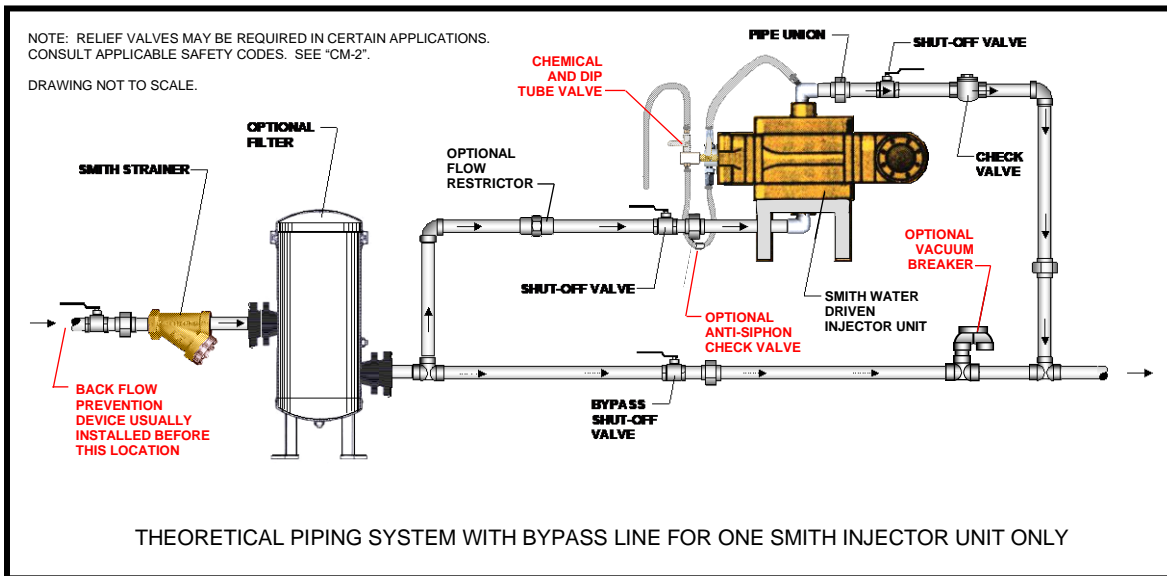
BACK-FLOW PREVENTION DEVICES

Every installation is different, and code requirements vary from one area to another. It is the responsibility of the end user to properly determine, and comply with, back-flow prevention device requirements.

In our literature, we suggest some procedures, and use of certain optional mechanical devices, to reduce unexpected damage to the injector unit, from concentrate siphoning, usually caused by excessive vacuum in the MeaSUREMENT outlet line. **However, the main purpose of such "recommended" procedures, along with "optional" devices, is to protect the MeaSUREMENT unit after installation in the irrigation system at the site. They are definitely not intended to take the place of the positive shut-off back-flow prevention devices that must be installed at the location for reasons such as to avoid contamination of local water supply (see the illustration, below).**

For example, in Manual "CM-2" we recommend that the user close the chemical and dip tube valve after use, to prevent any inadvertent siphoning of concentrate, which could eventually damage the water motor assembly. Likewise, we recommend installing an optional "vacuum breaker", where allowed by law, to further protect the machine by insuring against excessive vacuum transferred to a shut down SMITH MeaSUREMENT unit chronically exposed to irrigation line drainage suction, especially when the chemical and dip tube valve could be frequently left open. In this same light, we also recommend the installation of our optional small spring-loaded SMITH Anti-Siphon Check Valve, which could further help to prevent accidental siphoning.

Never the less, the use of different types of irrigation system devices specifically rated for "back-flow prevention" may be recommended, or required by law at the specific location. The usually required back flow prevention devices are installed in the main line, before the water inlet to the MeaSUREMENT injector unit. Requirements regarding such devices vary greatly from one location to another. Please check with your water company and other local agencies to determine which devices must be used in your system, and exactly where they must be placed.



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