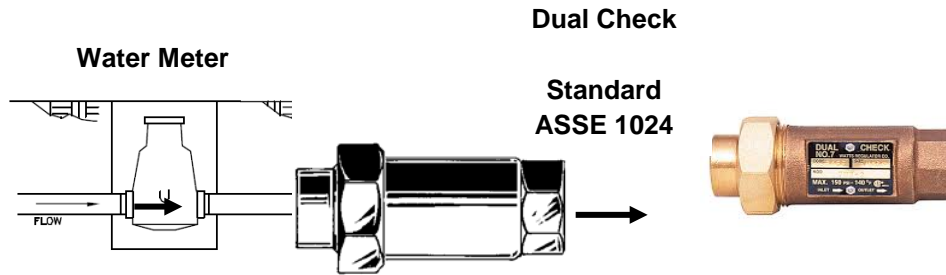


## Dual Check (DuC) (Standard ASSE 1024)



**Description (DuC).** A dual check shall contain two internally loaded, independently operating check valves. A dual check shall be a device approved by an approval agency acceptable to the local administrative authority.

**Function.** A dual check contains two loaded checks. In a backpressure condition, the increase in pressure will force the checks to close tighter. If the second check is not working, the first check can act as a backup to stop the backpressure from going through the device. In a backsiphonage condition, a sub atmospheric condition is present at the inlet, and the loading of the checks will cause the checks to close. Foreign debris or deterioration of the check components can affect both checks simultaneously, rendering the dual check incapable of preventing backflow without an outward indication of failure.

**Application.** For residential use only, in areas irrigating with reclaimed water. A dual check can be used to stop backflow from backpressure and/or backsiphonage and should be used only for low hazard internal protection applications. A Dual Check does not provide the same level of protection as a backflow prevention assembly and should not be used for service line protection unless it is a **low hazard** situation.

**Installation.** Below grade, in a box on the discharge side of the potable water meter. A Dual check must be installed in the orientation as it was approved by the approval agency recognized by the jurisdictional authority and as allowed by regulatory authority. A dual check should be sized hydraulically, taking into account both volume requirement and pressure loss through the device. A dual check must not be subjected to conditions that would exceed its maximum working water pressure and temperature rating. The increased pressure occurring from a closed system must also be evaluated, because excessive pressure can damage the device or other plumbing components.