

DIVISION II
DESIGN STANDARDS

SECTION 24

CROSS CONNECTION CONTROL

24.1 GENERAL

In order to protect the public water supply system from contamination due to cross-connections, the DEVELOPER shall install CITY approved backflow prevention devices in accordance with the most recent edition of the CITY's Cross Connection Control Policy.

Buildings and developments containing existing fire protection facilities or any process that may constitute a hazard to the public water supply system shall be retrofitted to CITY standards whenever a building permit is required. All such devices shall be constructed as detailed in the STANDARD DRAWINGS.

All devices shall be tested annually by the OWNER after the initial test with the certified test results forwarded to the CITY.

24.1.1. CROSS CONNECTION CONTROL DEVICES

- 1) Pressure Vacuum Breaker Assembly (PVBA) - For low and high health hazard uses and to be installed twelve (12) inches above highest irrigation sprinkler head, ground level, or risers, but no higher than five (5) feet above ground level. Restricted to irrigation system use only.
- 2) Reduced Pressure Zone Assembly (RPZA) - For high high health hazard uses and to be installed at least twelve (12) inches above ground level, risers, or ground level irrigation sprinkler heads. There are no maximum height limitations.
- 3) Double Check Valve Assembly (DCVA) - For low health hazard uses only and to be installed at least twelve (12) inches above ground level but not more than thirty (30) inches above the ground drainage system or flood elevation.
- 4) Reduced Pressure Zone-Detector Check Valve Assembly (RPZ-DCVA) - Same uses and installation as above for RPZA. Installed where low flows or unauthorized use may occur.
- 5) Double Detector Check Valve Assembly (DDCVA) - Same uses and installation as above for DCVA. Installed where low flows or unauthorized use may occur.

24- 1

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DESIGN STANDARDS

24. 1. 2. VERTICALLY INSTALLED CROSS CONNECTION CONTROL DEVICES

As the normal installation of a cross connection control device is in the horizontal position and is therefore typically designed for that orientation, only devices approved by the University of Southern California's Foundation for Cross Connection Control and Hydraulic Research for vertical installation shall be allowed.