

8-1-7: PREMISES REQUIRING A BACKFLOW PREVENTER:

(A) When any of the following items or activities are present or conducted on a premises served by the public potable water supply system, a potential hazard to the public potable water supply system shall be presumed and the user shall insure that a backflow preventer or air gap, of the type specified for that item or activity herein, is in place at each service connection for that premises:

1. Aircraft and missile plants: Reduced Pressure Principle Backflow Prevention Assembly (RPA)
2. Animal veterinary clinics: RPA
3. Automotive plants: RPA
4. Automotive repair with steam cleaners, acid cleaning equipment, or solvent facilities: RPA
5. Auxiliary water systems, public or private that are not approved by the Maricopa County Health Department: RPA
6. Bottling Plants, beverage or chemical: RPA
7. Breweries: RPA
8. Buildings greater than three stories in height or greater than 34 feet in height from curb level: Double Check Valve Backflow Prevention Assembly (DCVA)
9. Buildings used for commercial or industrial purposes where one service connection supplies more than one tenant or occupant of the building: RPA
10. Buildings where the user's water supply system is in violation of the Uniform Plumbing Code as adopted by the City: RPA
11. Buildings with house pumps and or potable water storage tanks: DCVA
12. Buildings with landscape fountains, ponds, or baptismal tanks: RPA
13. Buildings with sewage ejectors: RPA
14. Canneries, packing houses, and reduction plants: RPA
15. Car wash facilities: RPA
16. Cooling towers, boilers, chillers, and other heating and cooling systems utilizing potable water: RPA
17. Chemical plants: RPA

18. Chemically treated potable or nonpotable water systems: RPA
19. Commercial laundries: RPA
20. Dairies and cold storage plants: RPA
21. Film processing laboratories, facilities or equipment: RPA
22. Fire hydrant water meters connected to an irrigation system or any other use included in the Subsection: RPA
23. Food processing plants: RPA
24. Government owned or operated facilities not open for inspection by the Department: RPA
25. Holding tank disposal stations: RPA
26. Hospitals: RPA
27. Industrial or commercial premises not located within the City limits, but served by the City public potable water supply system: RPA
28. Irrigation systems, except as described in Subparagraphs a.-e.: Pressure Vacuum Breaker (PVB)
 - a. Premises where nonpotable water is used for irrigation: RPA
 - b. Systems utilizing fertilizer or pesticide injection systems: RPA
 - c. Systems interconnected by more than one service connection: RPA
 - d. Systems using potable water with nonpotable water piping: RPA
 - e. Systems designed and constructed capable of inducing backpressure at the service connection: RPA
29. Laboratories using toxic or nontoxic materials: RPA
30. Medical and dental buildings, behavioral health centers, rest and convalescent homes engaged in the diagnosis, care or treatment of human illness: RPA
31. Mortuaries: RPA
32. Manufacturing, processing and fabricating plants: RPA
33. Mobile home parks served by master meters: DCVA
34. Motion picture studios: RPA

35. Multiple service connections interconnected for potable uses: DCVA
36. Oil and gas production or storage facilities: RPA
37. Paper and paper product production facilities: RPA
38. Plating facilities: RPA
39. Portable insecticide or herbicide spray tanks: RPA or Air Gap (AG)
40. Power plants: RPA
41. Premises served by water meters 3" or greater in size (vault meters): DCVA
42. Premises where a cross-connection is maintained or where a cross-connection previously occurred within a user's premises: RPA
43. Public swimming pools with self-levelers or automatic fillers: PVB
44. Radioactive material processing facilities: RPA
45. Restricted, classified or other closed facilities: RPA
46. Sand and gravel plants: RPA
47. Schools, colleges, and universities: RPA
48. Shopping centers served by master meters: RPA
49. Sewage collection or treatment facilities: RPA
50. Storm water drainage facilities: RPA
51. Waterfront facilities: RPA
52. Water trucks, water tanks or hydraulic sewer cleaning equipment: RPA or AG

(B) When two or more of the items or activities listed in Subsection A are present or conducted on the same premises and served by the same service connection, the user shall install the most restrictive backflow preventer at the service connection. For purposes of this Subsection the order of most restrictive to least restrictive backflow preventers shall be as follows:

1. Reduced Pressure Principle Backflow Prevention Assembly (RPA)
2. Pressure Vacuum Breaker Assembly (PVB)
3. Double Check Valve Backflow Prevention Assembly (DCVA)

- (C) The department shall perform site surveys of all new water users and existing water users to determine if the degree of hazard requires a backflow prevention assembly to be installed. If an assembly is required, the user shall comply with the standards set forth in this Chapter within a period of time as determined by the Department based upon the degree of hazard.
- (D) A change of type of use shall require the Department to conduct a new survey of use. If the survey determines a backflow prevention assembly is required, installation shall be completed by the user before the City may grant the change.