



4a - TYPICAL FACILITIES AND RECOMMENDED BACKFLOW PREVENTERS

Commercial and industrial customers

Automatic car washes	RP
Auxiliary water systems/interconnected with the public water system	RP
Exterminators/veterinary clinics	RP
Boilers/ condenser water or chilled water systems	RP
Fire systems containing chemical additives	RP
Hospitals, medical clinics, dental clinics, health clinics, sanitariums morgues mortuaries, autopsy facilities, nursing and convalescent homes	RP
Irrigation systems and lawn sprinkler systems ,if chemicals are used	RP
Laboratories /photography/medical Labs	RP
Commercial laundries	RP
Radiator and battery shops	RP
Laundries & dry cleaning	RP
Wastewater treatment plants pump stations and storm water pumping facilities	RP
Marinas and dockside facilities	RP
Commercial, swimming pools	RP
Commercial farms using pesticides and herbicides	RP
Establishments holding livestock for sale or slaughter etc	RP
Machine Tools/ Metal Processing Plants	RP
Paper Product Plant	RP
Petroleum Processing or Storage Plants	RP
Power Plant	RP
Pharmaceutical or Cosmetic Plants	RP

Buildings with (4 units or more)/ Building with water booster pumps	DC
Restaurants/ cafeterias/ suspected medium hazards	DC
Fire sprinkler systems (without chemicals)	DC
Multi-use commercial, office or warehouse facilities	DC
Fast-food marts and other food handling facilities with isolation valves on fountains and CO ₂ tanks	DC
Residential units with 2- 3 units	RDC

All backflow prevention assemblies are required to be ASSE approved. RP: reduce pressure zone assembly, DC: Double Check, RDC: residential dual check

Customers may request a physical inspection to determine the type of backflow preventer required
 When installing a RDC, it is recommended to install an expansion tank to prevent any water pressure buildup inside the premise.

Facilities having booster pumps shall be equipped with a low suction pressure cut-off device to shut off the pump when the pressure in the waterworks drops to a minimum of 10 PSI.

Fire services	Double check Detector Backflow Double check Detector Backflow (DCDA) Preventers are designed to protect against both back-siphonage and backpressure. The DCDA incorporates a meter by-pass to detect leaks and unauthorized water usage.
Irrigation system	Reduced pressure Zone (RPZ) assemblies, Pressure Vacuum Breaker (PVB)

4b- EXAMPLES OF POTENTIAL CROSS CONNECTION SITES IN COMMON FACILITIES

Facility	Potential Cross connection sites
Restaurants	Beverage systems using CO ₂ tanks Dishwashers Steam cooking systems Preparation areas
Health and Fitness Center	Swimming pools/ Saunas/ Jacuzzi's / whirlpools Boiler systems
Parks / Aquariums / Zoos	Viewing tanks Pools/ Ponds Animal feeding systems
Schools / Colleges	Laboratories- chemistry, physics, biology Swimming pool
Hospital / Dental Offices / Morgue/ Funeral Home / Veterinarians	Aspirators Central suction units Spit sinks Laboratories Autoclaves Pipette washer Photo Labs – Xray developing