



Public Works Department
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Backflow Prevention Information Sheet

<u>Backflow Items</u>	<u>Type of Protection Allowed</u>
Auxiliary Water Supply	Main Line and Isolation: RPZ
Boiler/Chiller for Space Heating	Main Line and Isolation: RPZ
Building containing a reclaimed water system	Main Line and Isolation: RPZ
Building three (3) or more stories in height	Main Line: RPZ
Carbonated Drink Dispenser	Stainless Steel RPZ only
Car Wash	Main Line and Isolation: RPZ
Chemical Mop Bucket Washer	AVB with no downstream shut-off valves and an air gap on hose
Commercial Dishwasher	RPZ
Commercial Laundry/Dry Cleaner (Except drop off only locations.)	Main Line and Isolation: AIR GAP or RPZ
Cooling Tower/Evaporative Cooler	Main Line and Isolation: AIR GAP or RPZ
Fire Protection System utilizing chemicals or additives (New installation or complete remodel ONLY)	RPZ (Assembly must have U.L. or F.M. and U.S.C. ratings)
Fire Protection System (Without chemicals or additives)	DC (Assembly must have U.L. or F.M. and U.S.C. ratings)
Food and/or Beverage Processing Plant	RPZ
Fountain/Outdoor Decorative Pool	RPZ
Funeral Home/Mortuary	Main Line and Isolation: RPZ
Greenhouse and/or Nursery (with toxic chemicals)	RPZ
Hospital/Dental/Doctor/Veterinarian Equipment	Isolation: RPZ
Hospital/Dental/Doctor/Veterinarian Office	Main Line: RPZ (Parallel system required for Hospital)
In-Line Cartridge Filter (Not using chemical injection, reverse osmosis, or deionization)	DC
In-Line Cartridge Filter (Utilizing chemical injection, reverse osmosis, or deionization.)	RPZ
Irrigation System with Chemical Injection	RPZ
Irrigation System with On-Site Septic System	RPZ
Irrigation System (all others)	DC, PVB or RPZ
Laboratory (medical, dental, research, and/or educational lab)	Main Line and Isolation: RPZ
Manufacturing Plant (Toxic)	Main Line and Isolation: RPZ
Mixing Valve with hose attachments	RPZ or AVB with no downstream shut-off
Photography Equipment	RPZ
Plant Using Radioactive Materials	Main Line and Isolation: RPZ
Plating and/or Chemical Plant	Main Line and Isolation: RPZ
Sewage Lift Station	Main Line and Isolation: RPZ
Swimming Pool (Commercial Only)	RPZ
Trap Primer	AIR GAP (1 inch minimum)
Wall Hydrant/Commercial Garage Area	AVB (Unless it's a radiator shop, chemical tanker repair shop, etc., then must be RPZ.)
Wall Hydrant/Commercial Landscape Area	AVB (unless chemical injectors are to be used)
Water Injected Garbage Disposal	RPZ, PVB, or SVB on water supply line with an AIR GAP on drain line
Water Injected Soap or Foam Dispenser	RPZ or AIR GAP
Water Softener	RPZ or PVB
**Other	RPZ, PVB, DC, and AVB

** Situations which are not covered in the table above shall be evaluated on a case by case basis by the Town. The required backflow prevention assembly shall be determined by the Public Works Director or designee(s).

Registration

A Certified Backflow Prevention Assembly Technician shall be registered with the Town of Prosper prior to testing any backflow prevention assemblies within Town boundaries.

Testing of Backflow Prevention Assemblies

The backflow prevention assembly shall be tested by a registered Town of Prosper BPAT. In order to properly register a backflow prevention assembly with the Town of Prosper, a Town of Prosper Backflow Assembly Test Report Form shall be completed by a Prosper BPAT on each backflow prevention assembly tested. Each completed original form, together with the records of such tests, repairs, or replacement, shall be received by the Public Works Department of the Town of Prosper within ten (10) calendar days after the testing, repair, replacement or work performed upstream of the assembly.

Backflow Prevention Assembly Requirements

- Main Line Backflow Prevention shall be a reduced pressure backflow assembly (RPZ) or air gap. The backflow assembly shall be installed no closer than three (3) feet from the meter with no tee's or branches before the assembly.
- Isolation Backflow assembly is to be installed at the point of a water connection with a reduced pressure backflow assembly (RPZ), double check valve backflow assembly (DC), or air gap. The RPZ or DC assembly is required to be tested. An air gap shall have equal separation of one (1) inch minimum or twice the diameter of the pipe, whichever is greater.
- A pressure vacuum breaker assembly (PVB) and an atmospheric vacuum breaker assembly (AVB) shall not be subject to any type of backpressure situation. A PVB or AVB assembly is required to be tested. A PVB may have a downstream shutoff valve. An AVB is not allowed in any Health Hazard situation and may have no downstream shut-off valves.
- Each service connection from the public water system to a premise having an auxiliary water supply shall be protected against backflow of water from the premise into the public water system with a Reduced Pressure Backflow Prevention Assembly (RPZ).
- For a newly constructed premise on which a substance is handled in a manner that it may enter the public water system, each service connection from the public water system to such premise shall be protected against the backflow of water from the premise into the public water system. This requirement shall apply to each premise on which persons handle process water and water originating from the public water system, which has been subjected to deterioration in sanitary quality.
- For an existing premise on which a substance is handled in a manner that it may enter the public water system, each service connection from the public water system to such premise may be required to protect against the backflow of water from the premise into the public water system as determined of the Public Works Director. This requirement shall apply to each premise on which persons handle process waters and waters originating from the public water system, which have been subjected to deterioration in sanitary quality.
- A backflow prevention assembly shall be installed on service connections to any premise: (1) having internal cross-connections that cannot be permanently corrected and controlled; (2) upon the Town Official's determination that an intricate plumbing and piping arrangement exists which makes it impractical to ascertain whether cross-connections are located therein; or, (3) where a portion of the premise cannot be readily accessed for inspection purposes making it impractical or impossible to ascertain whether cross-connections exist. The customer connected to the public potable water system shall make all the necessary arrangement, at its sole expense, to remove without delay security barriers or other obstacles to access by the Public Works Director.
- If an interstreet main flow may result from two (2) or more services supplying water to the same building, structure, or premise, a standard check valve shall be installed adjacent to the respective meters and on the owner's property. If a check valve is not adequate to protect the public water system's mains from pollution or contamination, the installation of an approved backflow prevention assembly may be required by the Public Works Director. Approval will be given if a backflow prevention assembly is functioning. A determination by the Public Works Director, Building Official, or their respective designee(s) of a check valve is inadequate or the requirement of an approved backflow prevention assembly may be appealed.
- Quick Connect or hose-bib connections from an irrigation line shall require the installation of an RPZ.
- **All premises that are considered to be High Health Hazard Installations in the Town of Prosper Backflow Plan require the installation of an RPZ on the domestic main line.**

For additional information, please contact the Public Works Department at 972-347-9969 or 214-449-8289.