



### TOWN OF PROSPER BACKFLOW PREVENTION INFORMATION SHEET

Project Address: \_\_\_\_\_ Permit Number: \_\_\_\_\_

Project Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Please indicate by placing an X in the appropriate box with regard to the backflow items provided. The completed form will be forwarded to the Public Works department. **To prevent delays at time of final inspection this form must be completed and accurately filled out.**

Place an "X" Here	**Backflow Items**	Type of Protection Allowed	Type of Protection Provided	Number of Assemblies
	Auxiliary water supply mainline & isolation	R.P.Z		
	Boilers/ Chillers for space heating mainline & isolation	R.P.Z		
	Building containing a reclaimed water system mainline & isolation	R.P.Z		
	Carbonated drink dispensers	<b>Stainless Steel R.P.Z. only</b>		
	Car Washes mainline & isolation	R.P.Z		
	Chemical mop bucket washers	A.V.B. with no downstream shut-off valves and an air gap on hose		
	Commercial laundry, Dry Cleaners mainline & isolation	AIR GAP or R.P.Z		
	Cooling Towers/ Evaporative Coolers mainline & isolation	AIR GAP or R.P.Z		
	Dishwasher (Residential Type)	AIR GAP fitting on drain line (loop option is prohibited)		
	Fire protection systems utilizing chemicals or additives (New installations only or complete remodel)	R.P.Z. (Assembly must have U.L. or F.M. and U.S.C. ratings)		
	Fire protection Commercial and Residential systems without chemicals or additives	D.C (Assembly must have U.L. or F.M. and U.S.C. ratings)		
	Food and beverage processing plants	R.P.Z		
	Fountains/ Outdoor decorative pool	R.P.Z		
	Funeral home and mortuary mainline & isolation	R.P.Z		
	Green house or nursery (with toxic chemicals)	R.P.Z		
	Hospital/ Dental/ Doctor/ Veterinarian (Mainline)	R.P.Z		
	Hospital/ Dental/ Doctor/ Veterinarian equipment (Isolation)	R.P.Z		
	Irrigation with Chemical Injection	R.P.Z		
	Irrigation Commercial/ Residential	D.C., P.V.B. or R.P.Z.		
	Laboratories (Including medical, dental, research, and educational labs) Mainline and Isolation	R.P.Z		
	Main Supply for: Hospital mainline & isolation	R.P.Z (Parallel system required)		
	Main supply line for: Building 3 or more stories in height	R.P.Z		
	Manufacturing plant (Toxic) mainline & isolation	R.P.Z		
	Mixing valves with hose attachments	R.P.Z. or A.V.B. with no downstream shut-off		
	Photography Equipment	R.P.Z		
	Plants using radioactive materials mainline & isolation	R.P.Z		
	Plating or chemical plants mainline & isolation	R.P.Z		
	Trap primers	AIR GAP (1 inch minimum)		
	Sewage lift stations mainline & isolation	R.P.Z		
	Swimming Pools (Commercial Only)	R.P.Z		
	Wall Hydrants / Commercial Landscape Areas	A.V.B. unless chemical injectors are to be used.		
	Wall Hydrants/ Commercial Garage Areas	A.V.B. Unless ins is a radiator shop, chemical tanker repair shop etc, then must be R.P.Z.		
	Water injected garbage disposals	A.V.B on water supply line with an AIR GAP on drain line		
	Water injected soap dispensers	R.P.Z. or AIR GAP		
	Water softeners	R.P.Z.		
	Other:	R.P.Z., P.V.B., D.C. and A.V.B		
	<b>None of the Above:</b>			

## TOWN OF PROSPER BACKFLOW PREVENTION INFORMATION SHEET

\*\* Situations which are not covered in the table above shall be evaluated on a case by case basis by the town, and the required backflow prevention assembly shall be determined by the Public Works director or designee(s).

**Mainline; Reduced pressure backflow assembly or Air gap only. No closer than 3 ft from meter & no tee's or branches before assembly.**

**Isolation: Backflow assembly to be installed at the point of a water connection to equal the following:**

R.P.Z. – Reduced pressure backflow assembly (assembly required to be tested)

D.C. – Double check valve backflow assembly ( assembly required to be tested)

Air Gap- to equal separation of one inch (1') minimum or twice the diameter of the pipe whichever is greater.

**No vacuum breaker shall be subject to any type of backpressure situation.**

P.V.B.- Pressure vacuum breaker assembly (Assembly required to be tested) May have downstream shutoff valve

A.V.B.- Atmospheric vacuum breaker (Assemblies are not allowed in any Health Hazard situation and may have no downstream shut-off valves.

**Registration:** Prior to performing any testing of backflow prevention assemblies with the Town of Prosper, a Certified Backflow Prevention Assembly Technician must be registered with the Town of Prosper.

**Testing of Backflow Prevention Assemblies:** The backflow prevention assemblies shall be tested by a 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 Assemblies Required:**

- Each service connection from the public water system to premises having an auxiliary water supply shall be protected against backflow of water from the premises into the public water system with a Reduced Pressure Backflow Prevention Assembly.
- For all newly constructed premises on which a substance is handled so that it may enter the public water system, each service connection from the public water system to such premises shall be protected against the backflow of water from the premises 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 all existing premises on which a substance is handled so that it may enter the public water system, each service connection from the public water system to such premises may be required to be protected against the backflow of water from the premises into the public water system upon the determination of the Public Works director. This requirement shall apply to each premises on which persons handle process waters and waters originating from the public water system, which have been subjected to a deterioration in sanitary quality.
- Backflow prevention assemblies shall be installed on service connection to premises: (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 therein, or (3) where a portion of the premises 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 intersreet main flow may result from two or more services supplying water to the same building, structure, or premises, than 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) that a check valve is inadequate or that an approved backflow prevention assembly is required may be appealed.
- Quick Connect or hose-bib connections from irrigation lines shall require the installation of an RPZ.
- All premises that are High-Hazard installations in the Town of Prosper Backflow Plan require the installation of an R.P.Z. on the domestic main line.

**This form and all Town of Prosper Backflow Test Report forms must be turned into Building Inspections at 409 E. 1<sup>st</sup> Street, Prosper, TX 75078.**

**For additional information contact the Public Works Department at**

**972-347-9969 or**

**214-449-8289**