



CITY OF PLANO BACKFLOW PREVENTION INFORMATION SHEET

PROJECT ADDRESS: _____
 PROJECT NAME: _____
 CONTACT PERSON: _____

APPLICATION NUMBER: _____
 PHONE NUMBER: (____) _____

Please indicate by placing an X in the appropriate box with regard to the backflow items provided. Completion of this form will be forwarded to the Utility Operations Department. To prevent delays at time of final inspection this form must be completely and accurately filled out.

Place "X" here	Backflow Items	Type of Protection Required	Type Protection Provided	Number of Assemblies Provided
	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	STAINLESS STEEL R.P.Z.		
	Car Washes mainline & isolation	R.P.Z.		
	Chemical Mop Bucket Washers	A.V.B. w/no downstream shut-off Valves & an Air Gap on Hose		
	Commercial Laundry Washers, Dry Cleaners mainline & isolation	AIR GAP or R.P.Z.		
	Cooling Towers/Evaporative Coolers mainline & isolation	AIR GAP and R.P.Z.		
	Dishwasher(Residential type)	AIR GAP fitting on drain line (loop option prohibited)		
	Fire protection systems utilizing chemicals or additives (new installations or remodels of existing system)	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 (new installations or remodels of existing system.)	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	AIR GAP, R.P.Z. or P.V.B. with no downstream pump.		
	Funeral home and mortuary mainline & isolation	R. P. Z.		
	Green house or nursery (with toxic chemicals)	R. P. Z.		
	Hospital / Dental / Doctor / Veterinarian Equipment(All medical equipment) mainline & isolation	R.P.Z. or AIR GAP		
	Irrigation Commercial / Residential	D.C., P.V.B. or R.P.Z.		
	Irrigation Chemical Injection	R.P.Z.		
	Laboratories (including medical, dental & research labs, and labs at educational facilities) mainline & isolation	R.P.Z.		
	Main supply line for: Hospital mainline & isolation	R.P.Z. (parallel system required)		
	Main supply line for Buildings 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.		
	Temporary construction fire hydrant meters	R.P.Z. or AIR GAP		
	Trap Primers	Air Gap (1 inch minimum)		
	Sewage lift stations mainline & isolation	R.P.Z.		
	Sewage treatment plants mainline & isolation	R.P.Z.		
	Stationary construction fire hydrant meters	R.P.Z. or AIR GAP		
	Swimming Pools	AIR GAP or 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 it is a Radiator Shop, Chemical Tanker Repair Shop etc. then R.P.Z.		
	Water Heaters	AIR GAP (6 – inch minimum) on T&P Drain Line		
	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., A.V.B.		
	None of the Above			



This handout is for informational purposes only and should not be relied on in place of official regulations and/or policies. The CITY OF PLANO makes no representations, guarantees, or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the handout. Customers and citizens are personally responsible for complying with all local, state and federal laws pertaining to projects within the city. Copies of the CITY OF PLANO adopted codes and Zoning Ordinances can be found on the city website at www.plano.gov or at the CITY OF PLANO Municipal Center at 1520 Avenue K, Plano, Texas.

Building Inspections Department ~ 1520 Ave K, Suite 140 Plano, TX 75074 ~ 972-941-7140 fax 972-941-7187
www.buildinginspections.org
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** Situations which are not covered in the Table above shall be evaluated on a case-by-case basis by the City, and the required backflow prevention assembly shall be determined by the Utility Operations Superintendent (see reverse side).

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 point of water connection to eq.

R.P.Z.-Reduced Pressure Backflow Assembly (Assembly required to be tested – see reverse side) A.V.B -Atmospheric Vacuum Breaker
D.C.- Double check Valve Backflow Assembly (Assembly required to be tested– see reverse side) Air Gap-A separation of 1-inch minimum or twice the diameter of the pipe whichever

P.V.B's can have a downstream shut-off valve is greater

A.V.B's are not allowed in any Health situation and no downstream shut-off valves. No Vacuum Breaker shall be subjected to any type of backpressure situation.

Spill Proof Vacuum Breakers are not allowed in Plano P.V.B.-Pressure Vacuum Breaker (Assembly required to be tested-see reverse side)

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REGISTRATION: Prior to performing any testing of backflow prevention assemblies within the City of Plano, a licensed backflow prevention assembly technician must be registered with the City of Plano Utility Operations Department.

TESTING OF BACKFLOW PREVENTION ASSEMBLIES: The backflow prevention assemblies shall be tested by a Plano BPAT. In order to properly register a backflow prevention assembly with the City of Plano, a City of Plano Backflow Prevention Assembly Test Report form shall be completed by a Plano 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 Utility Operations Department of the City of Plano within ten (10) calendar days after the testing, repair, replacement or work performed upstream of the assembly.

BACKFLOW PREVENTION ASSEMBLIES REQUIRED:

- (a) 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.
- (b) 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.
- (c) 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 Superintendent. 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.
- (d) Backflow prevention assemblies shall be installed on a service connection to premises: (1) having internal cross-connections that cannot be permanently corrected and controlled, (2) upon the appropriate City 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 necessary arrangements, at its sole expense, to remove without delay security barriers or other obstacles to access by the Superintendent.
- (e) If an interstreet main flow may result from two or more services supplying water to the same building, structure, or premises, then 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 Utility Operations Superintendent. Approval will be given if a backflow prevention assembly is functioning. A determination by the Utility Operations Superintendent, 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.
- (f) Quick connect or hose-bib connections from irrigation lines shall required the installation of an RPZ..

For more information, contact City of Plano Utility Operations Department. 4120 W. Plano Pkwy, Plano, Texas 75075, (972) 769-4160

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