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Backflow Preventer Installation Applications*

Application	Dual Check Valve	Double Check Valve Assembly	Reduced Pressure Zone Assembly
RESIDENTIAL/APARTMENT			
Standard Single Family	X		
w/closed loop geo-thermal	X		
w/open loop geo-thermal			X
w/on site well		X	
w/alternate water source		X	
w/underground sprinkler system			X
w/water powered sump pump		X	
Rental properties		X	
COMMERCIAL/INDUSTRIAL			
Low to Intermediate hazard		X	
High hazard			X
TESTING			
Done by Authority personnel during meter maintenance (every 7 years)	X		
Annual Testing Required by plumber with Back Flow certification		X	X
ACCEPTED MANUFACTURES			
	MODEL NUMBERS		
Watts	#7U2-2	#007	#009
Wilkins	#700	#950XL	#975XL
Conbraco	#4P-300	#40-100	#40-200
Febco	#810	#805Y	#825Y
OR ASSE APPROVED EQUIVALENT			

*Individual applications may vary. Contact the State College Borough Water Authority Backflow Specialist to determine the correct device.

Contact your plumber for options to relieve possible high water pressure due to Thermal Expansion.

Local Vendors: Krentzman Supply, Bi-Lo Supply, Folcarelli Supply

BACKFLOW PREVENTER REQUIREMENTS

SINGLE FAMILY RESIDENTIAL APPLICATIONS – Non-testable type double check backflow preventer

APARTMENT/RESIDENTIAL TYPE APPLICATIONS – Testable type of backflow preventer. Check with the Water Authority for the specific type.

COMMERCIAL/INDUSTRIAL TYPE APPLICATIONS – Testable type of backflow preventer. Check with the Water Authority for the specific type.

FIRE SYSTEMS: Separate fire lines must have a double-check detector check assembly, with a double-check valve assembly (testable device) on the by-pass line.

NOTE: A single family residence that has any of the following will be required to use a testable type backflow preventer:

- A. On site well or other alternative water source
- B. Underground sprinkler, irrigation system, or geothermal system
- C. Any type of business or rental unit at the residence

BACKFLOW PREVENTER DEVICES

- Double Check Backflow Preventer – for use in single family residence and apartments only
- Double Check Valve Assembly (with test capability) – for use in multi-family residential and some commercial applications
- Reduced Pressure Zone Assembly – for use for industrial and some commercial applications. When using a Reduced Pressure Zone Assembly (RPZ), it must have a soft seal check valve installed between the water meter and the RPZ.