



1201 West Branch Road  
State College, PA 16801-7697

[www.scbwa.org](http://www.scbwa.org)

Telephone: 814-238-6766  
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Backflow Preventer Installation Applications\*

Application	Dual Check Valve	Double Check Valve Assembly	Reduced Pressure Zone Assembly
<b>RESIDENTIAL/APARTMENT</b>			
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	
Apartments (four or less units)	X		
Apartments (five or more units)		X	
<b>COMMERCIAL/INDUSTRIAL</b>			
Low to Intermediate hazard		X	
High hazard			X
<b>TESTING</b>			
Done by Authority personnel during meter maintenance (every 7 years)	X		
Annual Testing Required by plumber with Back Flow certification		X	X
<b>ACCEPTED MANUFACTURES</b>			
	<b>MODEL NUMBERS</b>		
Watts	#7U2-2	#007	#009
Wilkins	#700	#950XL	#975XL
Conbraco	#4P-300	#40-100	#40-200
Febco	#810	#805Y	#825Y
<b>OR ASSE APPROVED EQUIVALENT</b>			

\*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



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## BACKFLOW PREVENTER REQUIREMENTS

**SINGLE FAMILY RESIDENTIAL APPLICATIONS**, (and up to four residential units) : non-testable type double check backflow preventer.

**APARTMENT/RESIDENTIAL TYPE APPLICATIONS**, (consisting of five rental units or more) : 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 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 or irrigation system.
- C. Any type of business at the residence.

### **BACKFLOW PREVENTER APPLICATIONS**

A. Double Check Backflow Preventer : For use in single family residence and apartments (with four units or less) only.

B. Double Check Valve Assembly (with test capability) : For use in multi-family residential and some commercial applications.

C. 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 seat check valve installed between the water meter and the RPZ.