



Village of Ashville

Backflow Prevention Program

The Village of Ashville has placed into effect a comprehensive backflow prevention program. What is this and what does it mean to you as a customer?

Backflow can be described as “a reversal of the normal direction of flow within a piping system” or the flow of water or other liquids, mixtures or substances into the distribution pipes of a potable water supply from any source other than the intended source of the potable water supply.

What it means to you our customer is that once the potable water passes thru your meter into or onto your facility, premise or home it is yours to use as you see fit and the backflow device will protect all other users of our system, just as their device protects your water supply.

While backflow and cross connections (an arrangement whereby backflow can occur) are not new, they are most recently covered by the Ohio Environmental Protection Agency (EPA) under Sections 3745 – 3795 of the Ohio Administrative Code. Locally in the Village of Ashville, Ohio water system it is covered by Codified Ordinances of Ashville, Part Nine – Streets, Utilities, and Public Services, Code Title Three - Utilities Chapter 935 Backflow Prevention. Passed 5-6-96.

Under this ordinance, the water department has deemed that all commercial/industrial facilities are in need of a approved backflow device. Also some residential sites may be required to have some sort of protection based on an on site survey. This survey will be done for all new water connections and may be conducted at an existing site by the water department or the consumer’s request. Devices that may be required by this survey and a brief description of them and what they might be used for are as follows.

Air-Gap Separation - complete physical separation of piping (water free falls from incoming line to users needs) Best form of protection and not usually needed.

Double Check Valve Assembly - two single independently acting check valves used where incoming pressure is a concern and the degree of hazard is deemed by survey to be low.

Double Check Detector Check - same as double check designed to be line size for fire protection. Only with a small bypass line and meter to detect fire flow, line leakage or unauthorized use.

Reduced Pressure Backflow Prevention Assembly - two independently acting check valves operating in a series and automatic relief valve. Second only to air gap in protection and used wherever there is another water source on site, or the ability for your site to generate greater pressure than is being delivered to you.

Reduced Pressure Detector Assembly - same as above used on dedicated fire protection system that uses additives in the system or the site as an auxiliary water source.

Pressure Vacuum Breaker - utilizes spring loading to actuate the valve when a problem is detected, used in all irrigation systems using “pop up” heads.

Low Suction Cut off Controller - senses low incoming pressure and shuts off any and all booster pumps on your site. Used where you have demonstrated a need to have constant pressure greater than is provided to your site and approved by the water department.

Any and all devices that are needed will be required to be tested at time of installation and yearly thereafter by a Department of Commerce certified tester. As a courtesy we have posted a list of approved testers, feel free to use these or any other approved tester of your choice. You can find this list at https://www.comapps.ohio.gov/dic/dico_apps/bdcc/CertifiedBackFlowTesters/.

In addition, under the same mentioned ordinances, we reserve the right to on request and perform additional on site surveys.

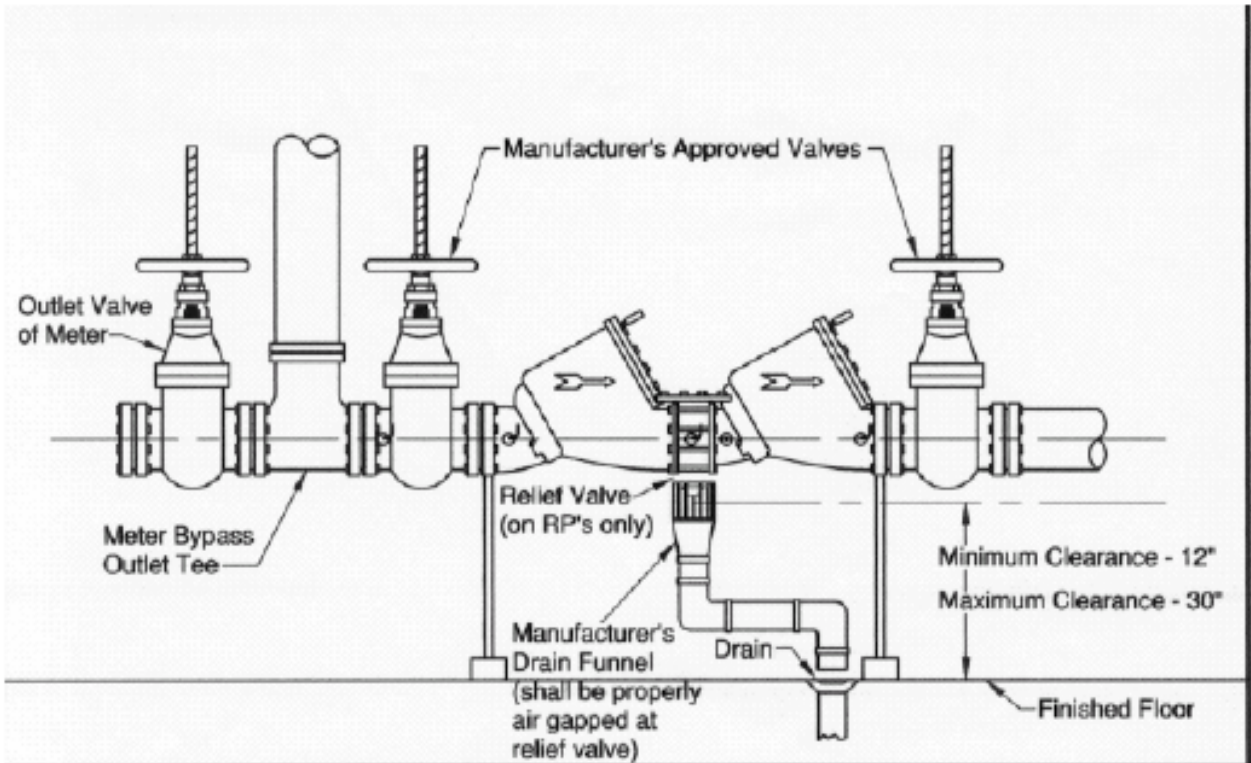
Please feel free to contact Franklin Christman, Village Administrator at 740/983-6367 or James Welsh, Chief of the Utility Department at 740/983-6367

Below is a list of property types and their respective backflow requirements. This list was established as a guideline and is not to be used as a legal requirement without the approval of the Administrator of the Division of Water. Updates to these requirements can be obtained by contacting the Administrative Office at 740/983-6367.

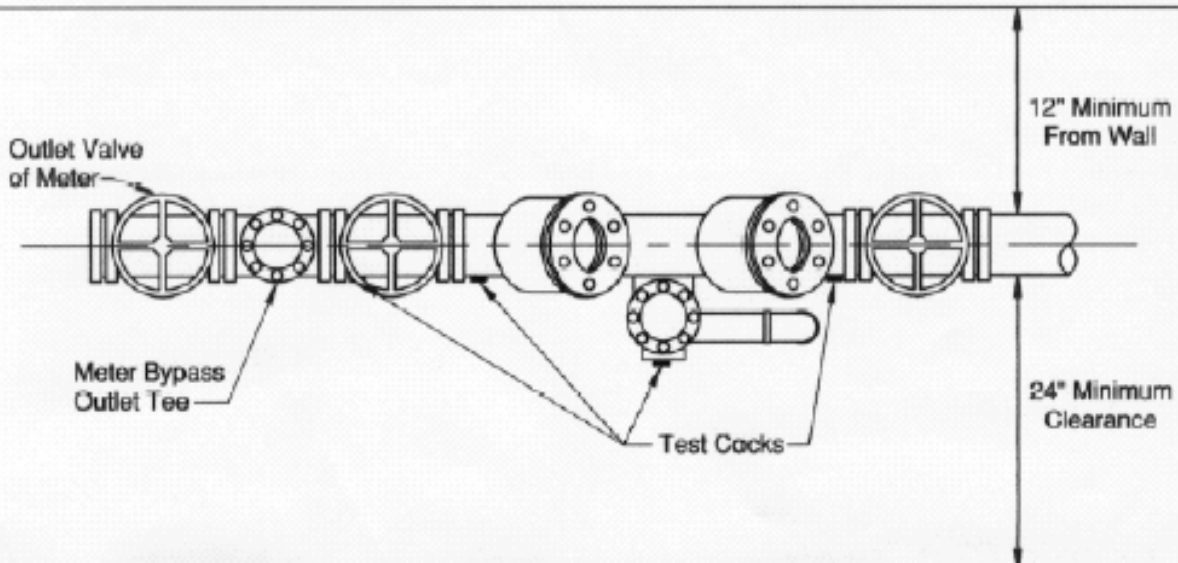
TYPE OF PROPERTY	REQUIREMENTS
Industrial	Reduced Pressure Backflow Prevention Device
Commercial	Backflow protection at this service shall match the highest level of water-use hazard on-site. However, if there is only one water-use hazard on-site and in the opinion of the Chief of the Utility Department, the make-up piping to this hazard can be permanently isolated, an isolated backflow assembly approved for the hazard can be used in lieu of one at the water service.
Residential With Lawn Irrigation or Direct Plumbing Pool	Reduced Pressure Backflow Prevention Device ** **Air gap or Pressure Vacuum Breaker (where no potential for back pressure exists) can be used as isolation in lieu of an RP at the service, with approval from the Chief of the Utility Department.
Residential with water uses other than domestic	Reduced Pressure Backflow Prevention Device
Residential with second source water or access to second source water, unless actual or potential cross-connections are abated or controlled to the satisfaction of the Chief of the Utility Department.	Reduced Pressure Backflow Prevention Device

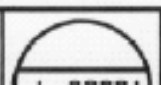
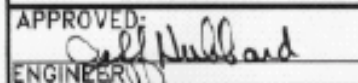
THE FOLLOWING ARE TO BE PROTECTED AS LISTED, REGARDLESS OF THE TYPES OF ON-SITE WATER-USE HAZARDS:

TYPE OF PROPERTY	REQUIREMENTS
Hospitals	Reduced Pressure Backflow Prevention Device
Mortuaries	Reduced Pressure Backflow Prevention Device
Medical Clinics, offices, etc...	Reduced Pressure Backflow Prevention Device
Nursing & Convalescent Homes	Reduced Pressure Backflow Prevention Device
Laboratories	Reduced Pressure Backflow Prevention Device
Sewage Treatment Plants & Pumping Stations	Reduced Pressure Backflow Prevention Device
Storm Water Pumping Stations	Reduced Pressure Backflow Prevention Device
Car Washes	Reduced Pressure Backflow Prevention Device
Lawn Irrigation	Reduced Pressure Backflow Prevention Device
Automotive & Body Repair Shops	Reduced Pressure Backflow Prevention Device
Commercial Lease Accounts	Reduced Pressure Backflow Prevention Device
Full Service Restaurants	Reduced Pressure Backflow Prevention Device



**ATTACHED SET OF INSTALLATION RULES L-9002B
ACCOMPANY THIS DRAWING.**



CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL BACKFLOW PREVENTER SETTING	
APPROVED:  ENGINEER		
DATE 4/1/01		

Backflow prevention assemblies shall be installed so that the inlet shut-off valve of the backflow preventor is the next piped fitting (including piping) after the water meter, except where a meter bypass, limited area fire system or strainer is needed.

Where the meter is located in the pit and the backflow preventor has been approved to be installed in the building, the backflow assembly inlet valve shall be twelve (12) inches from the wall or immediately after the ninety degree bend where the supply enters from the floor.

All assemblies are to be installed in a horizontal orientation.

Minimum and maximum ground clearance is measured from the floor to the lowest part of the assembly.

Each installation shall include properly located test cocks and manufacturer approved tightly closing shutoff valves.

No Backflow Prevention Assembly shall be subject to excessive heat or freezing.

It is recommended that a floor drain be installed as close as possible to the Assembly.

Reduced Pressure Principal Backflow Assemblies shall not be installed in a pit, vault or any area subject to flooding and shall always have an approved Air Gap Assembly.


Pressure Vacuum Breakers shall never be subject to back pressure and must be installed a minimum of 12" above the highest downstream discharge.

Lawn Irrigation Systems shall not have any outside exposed tees, drains or hose bibbs.

Backflow Prevention Assemblies shall prevent the release of on-site pressure to the public distribution water system. Therefore, internal compensation in accordance with the Ohio Plumbing Code shall be considered and made when needed, to relieve any excessive increase in on-site pressure due to hot water heating systems or other heat sources.

No Backflow Prevention Assembly shall be bypassed unless the bypass line contains equal backflow protection and the approval of the Division of Water.

NOTE: If there is a reason any of these criteria cannot be met, you will need to contact the Backflow Prevention Office at 645-6674.

CITY OF COLUMBUS DEPARTMENT OF PUBLIC UTILITIES DIVISION OF WATER	STANDARD DETAIL BACKFLOW PREVENTER SETTING INSTALLATION RULES	
APPROVED: <i>Jeff Hubbard</i> ENGINEER		
4/1/01 DATE		