

BACKFLOW PREVENTION QUIZ

TRUE or FALSE:

1. A cross-connection is a link or union between a potable water supply and any other system or apparatus through which a contaminant or pollutant may be transferred via some form of backflow into the drinking water system.
2. Backflow is the reverse flow of water in a plumbing system.
3. Backpressure is caused by a reduction in the system's pressure.
4. Backpressure can occur through an indirect cross-connection between a system that is operated at a higher pressure than the potable water supply.
5. The least reliable backflow preventer is the dual check valve.
6. A pressure vacuum breaker will protect against back-siphonage, but it will not protect against backpressure.
7. Atmospheric vacuum breakers must always be installed beyond the final control (shut off) valve.
8. An air break is another term for air gap.
9. A typical direct cross-connection is an ordinary hose.
10. Hose bibb vacuum breakers are only approved for noncontinuous pressure situations.
11. The best "fool proof" method of preventing backflow is the installation of the reduced pressure zone backflow preventer (RPZ).
12. The pressure vacuum breaker must be installed at least 6 inches above the highest inlet down stream and conversely the atmospheric vacuum breaker must be installed at least 12 inches above the highest inlet or flood level rim down stream.
13. A reduced pressure zone backflow preventer (RPZ), pressure vacuum breaker (PVB), double check value assembly, and a dual check valve with an intermediate atmospheric vent all require periodic testing to assure proper operation.
14. A backflow device that has a vent to the atmosphere may not be installed in a pit.
15. An inlet from a potable water supply that terminates in a pit would be considered a submerged inlet.

BETC PLUMBING INFORMATION MANUAL

16. The barometric loop is a very effective design of the plumbing system to protect against backpressure. The only limiting factor with its installation is that it requires at least a 35 foot vertical clearance in the facility.

MULTIPLE CHOICE:

17. A garbage disposal typically has a submerged inlet that automatically provides water to the grinding process, when the unit is turned on. Usually this cross connection is protected with an atmospheric vacuum breaker (AVB) that is installed at least 6 inches above the flood level rim of the fixture. Relative to the location of the electronic solenoid shut off valve, which one of the following is true?
- a. The shut off valve can be installed on either side of the AVB.
 - b. The shut off valve must be installed on the down stream side of the AVB.
 - c. The shut off valve must be installed on the supply side of the AVB.
 - d. The shut off valve must be installed on the supply side of the AVB and elevated at least 12 inches above the AVB.