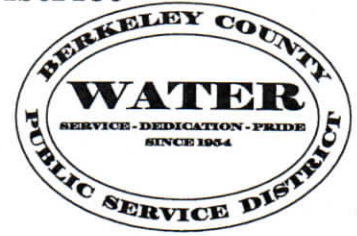


Berkeley County Public Service Water District

Installation Requirements for Backflow Assemblies in accordance with the WV State Manual.



1. **Reduced Pressure Backflow Assembly (RPBA) must be:**
 - a. Installed so as to be readily accessible for inspection, testing and maintenance
 - b. Provided with enough space for testing, maintenance and disassembly
 - c. Installed 12" – 30" above floor or ground
 - d. Installed at least 12" from wall and 24" from other objects unless a different schematic is approved by BCPSWD Cross-Connection Inspector.
 - e. Protected from freezing ; must use an insulated and heated enclosure if placed outside
 - f. Mounted in the horizontal position unless permitted to install vertically by the BCPSWD.
 - g. If indoors, a drain cup and line should be installed. The cup or gate should be Air Gapped 2 x relief valve diameter, but never less than 1".
 - h. NOTE: Installation in pits or below grade vaults is prohibited.

2. **Double Check Valve Assembly (DCVA) is to be installed so as to:**
 - a. Permit easy access and at least 12" from wall; 24" from other objects unless a different schematic is approved by BCPSWD Cross-Connection Inspector.
 - b. Provide adequate space for maintenance, testing and disassembly
 - c. Be 12" – 30" above floor
 - d. Mounted in the horizontal position unless permitted to install vertically by the BCPSWD.
 - e. Prevent submergence
 - f. be protected from freezing; must use an insulated and heated enclosure if placed outside

3. **Atmospheric Vacuum Breaker (AVB):**
 - a. Installed at least 6" above the highest downstream point of water or overflow rim
 - i. Start measuring from the bottom of the AVB
 - b. Absolutely no means of shutoff downstream of the AVB
 - c. Shall not be under continuous pressure; no more than 12hrs. in a 24hr. period.
 - d. Should not be subject to backpressure
 - e. Protected from freezing; must use an insulated and heated enclosure if placed outside
 - f. Accessible for testing and maintenance.
 - g. A shutoff valve may be used upstream or before the AVB but never after.

4. **Pressure Vacuum Breaker (PVB):**
 - a. Installed at least 12" above the highest downstream point of water or overflow rim.
 - b. Should not be subject to backpressure
 - c. Protected from freezing; must use insulated and heated enclosure if placed outside.
 - d. Accessible for testing and maintenance

5. **Air Gap (AG):** Should be 2 x I.D. of the supply pipe but never less than 1".

List of local WV Certified Backflow Assembly Testers on back.