

TYLER COUNTY PSD

PO Box 138
Friendly, WV 26146

WATER SERVICE LINE CONSTRUCTION SPECIFICATIONS

These specifications are designed to guide anyone who is constructing, replacing or repairing any water service lines outside of the structure, which is intended to be connected to the water system of the Tyler County Public Service District. This information indicates acceptable practice. It is not possible for these rules to cover every possible situation or question. If you have questions regarding water service installation, please contact the Tyler County Public Service District at 304-652-1401 from 8:30 a.m. to 3:30 p.m. Monday - Friday.

1. INSPECTION:

Although not required, any customer may request an inspection of his or her service line construction and tie in. Notify the District office at 304-652-1401 when requesting an inspection. Inspections cannot be performed on weekends or legal holidays. Inspection can be performed during the business day from 8:30 AM to 1:30 PM.

If private water supply exists (well, cistern, etc.) at the customer's residence or place of business, it cannot be connected to public supply. There must be an air gap separation between the two systems. A valve or check valve are not acceptable. Only an approved low-pressure back flow prevention device is acceptable if it is desired to connect the private and public water supply together (THIS IS A REGULATION OF THE WV DEPT. OF HEALTH.)

2. SERVICE LINE INSTALLATION:

- a. A short piece of service line (pig tail) is attached to the meter setting for you to connect your service line to. (See attached drawing). Keep in mind that only the Tyler County PSD personnel are to enter the meter pit.
- b. The use of any plastic fittings for pipe connections before your shut off valve or inside plumbing is discouraged (brass, bronze or steel is recommended).

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- c. Approved pipe materials consist of iron pipe size (IPS), polyethylene (PE) tubing with a minimum pressure rating of 250 PSI (SIDR 7), as required by the District. Materials must contain the NSF stamp of approval. The pipe diameter shall be $\frac{3}{4}$ inch or 1 inch, or greater, depending on the size of your proposed service. If the line is longer than 500 feet, consult the District on proper line size to maintain proper flow.
- d. Back fill materials shall consist of fine suitable material. All material shall be free of cinders, ashes, refuse or organic material. The service line shall have a minimum of 30 inches of cover in the yard area, and 36 inches in roadways and driveways.

Contact Miss Utility at 1-800-245-4848 to locate underground utilities in your area.

- e. The District **strongly recommends a shut off valve**, brass, bronze or steel, with drain and waste, to be located immediately inside the foundation wall, crawl space or basement at or near the point of entrance to your service line or other readily accessible location. The purpose of this valve is for you to be able to shut off your water if the need arises.
- f. At the point where the service line goes through the block or foundation wall, a sleeve is required to protect the pipe.
- g. A pressure gauge is strongly recommended by the District, but not required.
- h. The District **strongly recommends you install a thermal expansion tank** or other approved relief valve, especially if you use copper piping within the structure. (This can be purchased at any hardware store or home center). This is to prevent any damage to your hot water tank or your residence resulting from thermal expansion. This is outlined in section (3) of these regulations.
- i. Cross connections are prohibited. There cannot be a connection between any other water source, (well, cistern, etc.).
- j. The water line must be installed in a trench with at least two feet of separation from other pipes or wires. Follow applicable Health Department regulations as they pertain to separation from sanitary sewers or septic systems.

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- k. The District will not be required to make changes in the customers meter pit elevation. Such changes shall be accomplished by the District, and the customer shall bear the full cost for such changes.

3. BACK FLOW PREVENTION:

The Tyler County Public Service District uses a type of outside meter setting which is equipped with a check valve. The purpose is to prevent the water that has gone through your water meter setting from returning to our water system due to thermal expansion. The installation of a pressure device is required for the purpose of relieving pressure on your hot water tank and house plumbing. As water is heated it expands: your hot water tank will push hot water out the inlet when heating during times of minimal hot water use. Due to the check valve now required at your meter, water can no longer go back through the meter to the main line. If your hot water tank has a pressure relief valve, this expansion of water can result in release of water through this valve and possibly continue dripping of water from the relief valve. Water leaking from this valve may damage your residence. If your hot water tank has no relief valve, then the expansion of water could harm your plumbing and fixtures.

The District therefore strongly recommends that you install a thermal expansion tank. This device is a small tank with an air/water bladder or other approved relief valve. (They can be purchased at any hardware store or home center.) The air in the bladder can be compressed, enabling the water to expand in the tank relieving pressure on other fixtures. This tank is to be located on the cold water side of the hot water tank. See attached drawing.

4. PRESSURE REGULATING VALVE:

Customers with excessive water service pressure, generally greater than 135 PSI, will be provided pressure regulation by means of a pressure regulating valve installed in PSD's water meter pit and will be the property of the PSD. If the Customer chooses to provide further pressure regulation within their structure, this will be at their own cost and will not be the responsibility of the PSD to provide for the installation, maintenance or replacement of this pressure regulating valve. An example of this type of installation is illustrated on the attached drawing "IPS-03".

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5. GENERAL INFORMATION:

- a. Tapping of water lines is only to be done by the Tyler County Public Service District personnel, or a contractor working for the District.
- b. The District is available to inspect all service line construction, replacement or repairs. This is optional and not required.
- c. Only Tyler County Public Service District personnel are to enter the meter pit. Tampering with the District's property will result in legal action.
- d. The use of any plastic fittings for pipe connections on your service line before the Shut off valve, is **strongly discouraged**. (Only brass, bronze or steel is recommended.)

READ AND UNDERSTAND ALL OF THESE SPECIFICATIONS. IF YOU HAVE ANY QUESTIONS PLEASE CALL THE TYLER COUNTY PUBLIC SERVICE DISTRICT AT 304-652-1401 FROM 8:30 a.m. to 3:30 p.m. MONDAY - FRIDAY.