

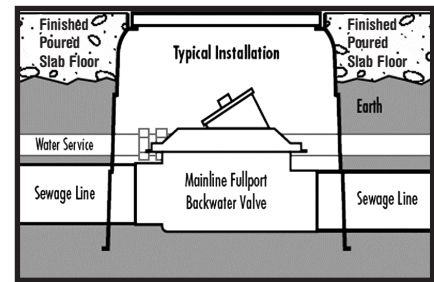
>> Backwater Valve Installation

Prior To Installation

- Inspect unit through cleanout
- Check o-rings
- Make sure flotation devices are in place (one on each side of gate)
- Check the gate and ensure it moves freely.

Installation

- Allow maximum grade when possible – 4% or higher
- NOTE: min. grade must be at least 2% - 1/4 inch per foot
- Check grade with level by placing it on the bolts
- See arrows for direction of flow
- Do not install any fittings within 2 feet of inlet side of valve. This will ensure laminar flow through valve body (as there is no control of fitting layouts, in retrofit installations this rule may be waived by the enforcing authority)
- Care should be taken when solvent welding pipe into valve. Ensure solvent does not enter the body as it will affect the valve's function
- Re-inspection of unit-remove sand, gravel, dirt or any other debris which may have entered the body and hinge area upon installation
- Tighten cleanout
- Install Mainline Access Box



Testing the Unit

All backwater valves are factory tested through our certified quality control program. If you wish to test the backwater valves, follow these instructions.

1. Place a "Test Ball" through the cleanout plug on the body, downstream of the valve into the outlet drainage piping leading away from the valve.
2. Inflate the test ball.
3. Through the cleanout opening, stretch a garden hose down to the "Test Ball" and begin filling the pipe with water.
4. Watching through the cleanout opening, you should see the gate rise into the closed position. This means the valve is closing properly. During a sewer back surge, back pressure will increase downstream of the valve, and the gate will seat onto the valve's o-ring, protecting the building from backflow.
5. Deflate the "Test Ball" to release the water. This will allow the gate to fall back into the open position.

WARNING

- Improper installation may result in valve failure
- Follow installation procedures carefully, with special care and attention to be taken when retrofitting valve into existing systems
- Do not install if proper grade cannot be achieved

>> Retrofit Backwater Valve Installaton

- Failures may occur due to back grade on valves. In order to achieve grade in retrofit installations, an installer must expose approx. 4-5 feet of piping. Often sewers are at a minimum, flat, or back grading. Since there is 3/4 of an inch difference in height from inlet to outlet on your Mainline valve, it may be necessary to adjust the grade on the piping leading up to the valve, to achieve required grade on the backwater valve
- In retrofit installations, always run and test all fixtures to ensure each one runs through the backwater valve, and nothing remains unprotected
- Check that the sewer is unrestricted (roots, blockages, etc.) downstream of valve.
- Ensure weeping tiles (French drains) tie in downstream of valve

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