ZURN

Z1088 Gate-type Backwater Valve
Installation, Operation, and Maintenance Instructions

Technical Information

The Zurn Z1088 is a spade-type backwater valve. Its Dura-Coated cast iron body offers a restrictive, automatic flapper-type backwater valve and a manually operated gate valve. The flapper-type backwater valve restricts the backflow of wastewater caused by temporary overloading. The manually operated valve can be closed to provide protection during flooding. It's located in the outlet and is manually operated at floor level via a handle and non-rising stem.

The unit incorporates a straight-through inlet and outlet design with no offset. This feature was designed for installation in existing sewer lines or where minimal pitch is required. Moreover, it can be installed in new or existing sewer lines without affecting invert elevations.

The 4-inch [102mm] models utilize a PVC flapper-type valve that hangs in a "closed" position. The 6-inch [152mm] models utilize a conventional brass flapper seal arrangement that hangs 1/4-inch [6mm] open. The unit also features a standard O-ring adjacent to the inlet and an O-ring seat insert adjacent to the outlet. Accessories include a galvanized cast iron body, 12-inch [305mm] and 24-inch [610mm] extensions, and a wheel handle. A bronze flapper valve is available for the 4-inch model.

Installation Instructions

Notice: Although the Zurn Z1088 Backwater Valve may be installed outside the facility, the recommended installation is in the basement floor of the facility. When the unit is installed on the sewer line, it should be placed as close to the wall as possible. Also, remember to turn off the water supply prior to installation on an existing facility.

Example of Installation

1) Begin installation by excavating an appropriately sized pit around the sewer line. If the unit is being installed in an existing facility, cut and remove the concrete and earth above the sewer line.
2) Cut the pipe a little larger than the overall distance of the unit's pipe connections and install according to local plumbing codes and proper plumbing practices.
3) Test system for leaks.
4) Backfill around the valve.
5) Re-cement the floor.

Accessories

1) 12" and 24" extensions (or as required to meet grade).
2) Wheel handle and cover.
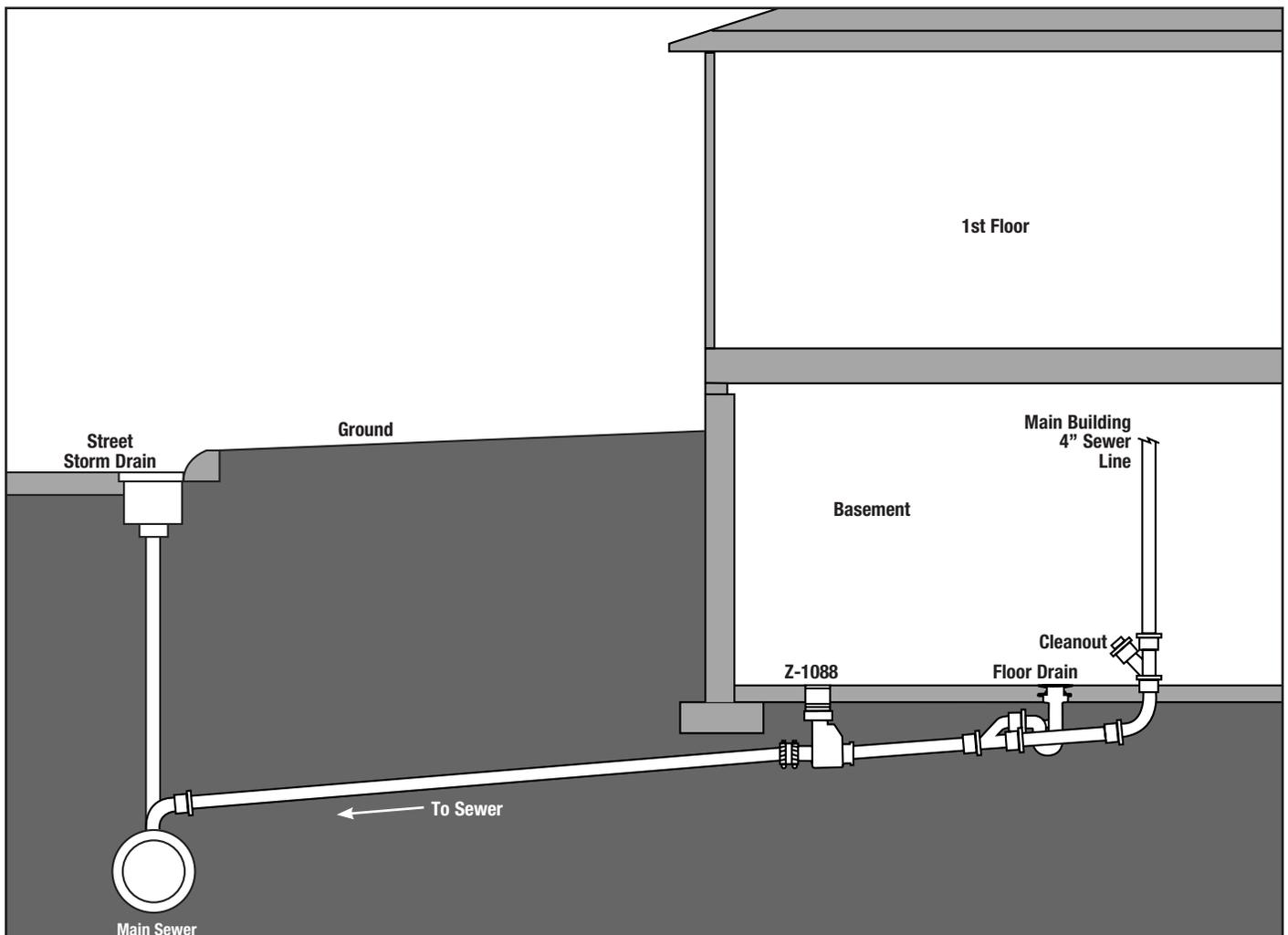
Operation Instructions

The Z1088's gate valve should be closed during storms and/or flooding to prevent sewer from backing up into the facility. Toilets and faucets must not, under any circumstances, be used while the gate valve is closed; to do so would flood the facility's internal sewer lines and back up on floor.

To close/open the gate valve, follow the steps listed below.

Step 1 Remove the cover by placing a screwdriver into the center hole (as shown in Top View With Cover) and prying it out.

Step 2 Turn the brass handle (shown in Top View Less Cover) clockwise until it stops. The gate valve now blocks the outlet, thus preventing the sewer from backing up.

Step 3 Once the storm or flooding is over, turn the brass handle counter-clockwise until it stops. The gate valve no longer blocks the outlet and toilets and faucets may now be used.

Step 4 Replace the cover.

Maintenance Instructions

The backwater valve should be checked periodically by a qualified plumber and cleaned of debris and waste when appropriate. To disassemble the valve, follow the steps below.

Step 1 Remove the cover as in Step 1 above.

Step 2 Remove the four (4) bolts from the handle plate (shown in Top View Less Cover).

Step 3 Pull up on the handle to remove the plate and handle/valve assembly.

Step 4 Clean out the accumulated debris and waste at the bottom of the valve housing.

Step 5 Grease the face of the gate, the screw stem, and the O-ring in the face of valve seat. This will ensure a smoothly operating valve assembly.

Step 6 Reinsert the plate and handle/valve assembly into the valve body.

Step 7 Reinstall the four (4) bolts and tighten.

Step 8 Replace the cover.
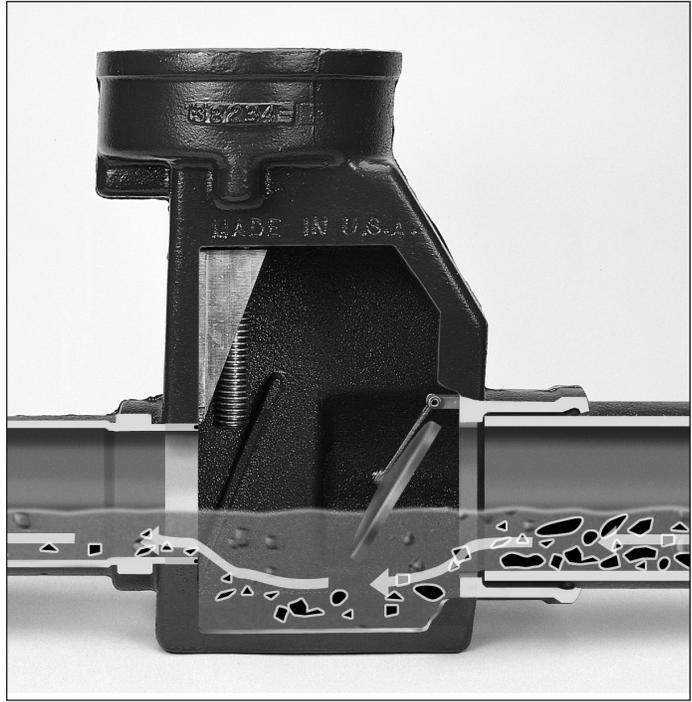
Open Position

Closed Position

Top View With Cover

Top View Less Cover