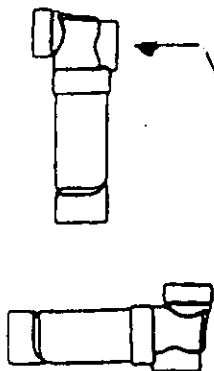
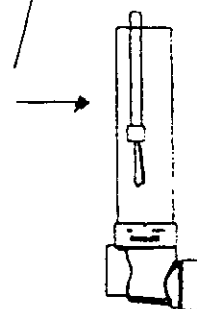
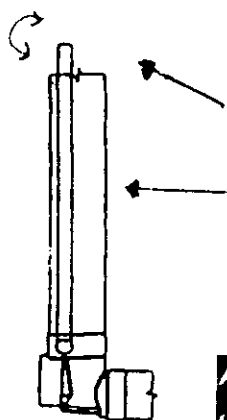
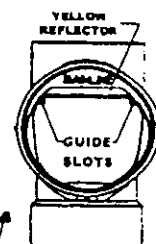
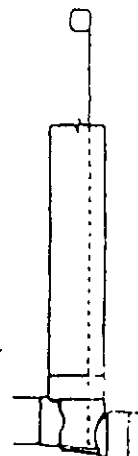


**MAINLINE****ADAPT-A-VALVE™****Extendable  
Backwater  
Valve****Models: ML-3XA (3" ABS)  
ML-3XP (3"PVC)****ML-4XA (4"ABS)  
ML-4XP (4"PVC)****\*\*\*\* Piping and Cleanout Cap supplied by others \*\*\*\*****\*\*\* Body Installation \*\*\***

1. When connecting the valve and associated piping, use approved solvent cement and ensure cement does not enter the body of valve.
2. Calculate and cut extension riser to desired height
3. **RECOMENDATION:** To avoid solvent cement from entering the valve body and cassette area. Step #1 turn valve body upside down and solvent weld extension riser onto pipe Step #2 turn valve body vertically with outlet at the top and inlet at the bottom, solvent weld piping on inlet side (**never use excessive cement**)
4. Install body and riser in sewer lateral with FLOW arrow pointing in direction of flow.
5. Check grade by placing level on inlet and outlet (do not exceed 1/4 inch per ft. grade)
6. Install cleanout cap

**\*\*\* Cassette Installation \*\*\***

7. Through extension riser, lower end of tape to bottom of valve and measure to the top of your DWV riser.
8. Cut the 3/4 inch cassette extension riser pipe approximately 7-inches shorter than measurement.
9. Solvent weld 3/4 inch pipe into the socket of the extension adapter on the cassette (**ensure solvent cement does not penetrate cassette**)
10. Solvent weld supplied tee handle to top of 3/4" pipe lining up tabs of tee handle with tabs on cassette.
11. Screw in supplied screws one on tee handle and one on cassette (see predrilled holes)
12. Place Yellow Cassette Installation Sticker to 3/4" riser pipe preferably just underneath handle and facing downstream.
13. Check and ensure no debris is lying on bottom of valve body, if debris is present flush clean.
14. Inspect front and back o-rings on cassette, ensure they are free of bumps and firmly set (If back-o-ring is not factory lubricated, lubricate to prevent binding)
15. Use yellow fluorescent sticker in valve body to serve as a guide for cassette installation. Lower cassette down riser pipe with backside o-ring facing fluorescent sticker, slide down against valve body face this will line up gate with both guide slots on body.
16. To ensure cassette is properly aligned into body slots apply gentle twisting motion on cassette extension (When cassette properly aligned it will not twist out of slots)
17. Once in slots to ensure cassette is fully inserted into body by gently applying downward force on the cassette until it stops and comes to rest with bottom of valve body. (Once down all the way the cassette will click and lock into position)

**\* If having Problems with installation check to see if solvent cement is present in body****After installation and after construction of building check to ensure that the backwater valve is free debris, flush if necessary****TEST FEATURE:** You can pressure test through your system through the Adapt-a-Valve body by ordering a Test-Eze Gate**MAINLINE BACKFLOW PRODUCTS**[www.backwatervalve.com](http://www.backwatervalve.com)

Toll Free 1-877-734-8691

# CASSETTE INSTALLATION

1. Prior to reinserting, Check all o-rings & lubricate back o-ring.
2. Flush any debris which may be at bottom of valve.
3. Lower and line up back face of cassette (o-ring side) to slide along back flat side of body.

**(Yellow reflector serves as guide)**

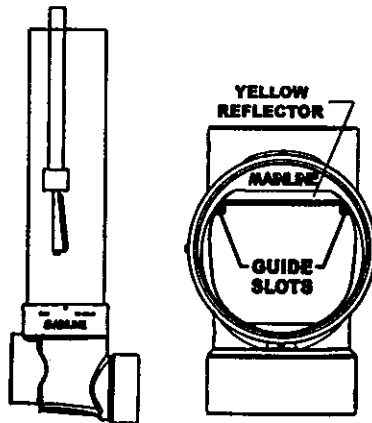
4. Ensure cassette engages both body slots.
5. Once in slot, gently push down to fully insert and lock cassette into body.
6. Use flashlight to check installation.

**WARNING**  
SEWER BACK-UP MAY  
OCCUR IF CASSETTE  
IS NOT FULLY INSERTED.

*if unsure contact  
plumbing contractor  
(Replace any Damaged Parts)*

**Recommended**  
Inspections & cleaning  
at quarterly intervals

More Information:  
See "Adapt-a-Valve" at  
[www.backwatervalve.com](http://www.backwatervalve.com)



## **Maintenance**

### **BUILDING OWNER:**

Mainline Backwater Valves are designed to be virtually maintenance free. However, they are mechanical devices sitting in a sewage environment, and periodic inspections are required. To ensure the satisfactory performance of the backwater valve follow the procedures listed below.

### **Periodic Inspection and Maintenance**

- Remove the cleanout plug on the top of the valve and do a visual inspection.
- Take a flashlight or trouble light to properly see inside the valve body.
- Inspect for debris build-up on the body, gate and beneath the gate.
- If debris build-up is found flush clean.
- The valve's gate seals against an o-ring on the body ( in the closed position). Inspect o-ring and replace if necessary.
- On models fitted with closed cell polyethylene floats, check the condition of floats and replace as necessary. \* Note: these floats are located on both sides of the gate and are protected from sewage contamination by the sidewalls of the gate and body (long life cycle, impervious to sewage). CSA certified floats.
- Ensure gate freely moves up and down.
- Reinstall cleanout plug.

### **Bolted Cover**

If damage is found on the gate, or a more thorough cleaning of the valve is required, remove the bolted cover.

Important: If you have difficulty maintaining these backflow devices, contact your plumber. If you wish to test the unit under a backflow condition refer to Installation for instructions.