



# TOWN OF NORTON

Water & Sewer Department

P.O. Box 1168 Norton, Massachusetts 02766

Tel. (508) 285-0280 Fax (508) 285-0298

## TOWN OF NORTON

### SEWER CONNECTION PERMIT APPLICATION

Owner's Name: \_\_\_\_\_

The undersigned, being the OWNER, of the property located at:

Address: \_\_\_\_\_

hereby request a permit to install and connect building sewer to serve said location.

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#### SECTION I

1. PROPERTY TYPE: Residential Single Family \_\_\_\_\_  
Residential Multi Family \_\_\_\_\_ (# of units including in-law)  
Commercial \_\_\_\_\_  
Industrial \_\_\_\_\_  
Multi Use \_\_\_\_\_ (Explain)

2. The name, address and phone number of person or firm who will perform the proposed work:

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## **SECTION II**

In consideration of granting this permit, the undersigned agrees:

1. To accept and abide by all provisions of the Town of Norton Rules & Regulations for the use of PUBLIC SEWER, and all other pertinent Water and Sewer ordinances or regulations that may be adopted in the future.
2. To maintain the building sewer service at no expense to the Town.
3. To notify the Superintendent of the Water/Sewer Department when the Building Sewer is ready for inspection and connection to the public sewer but before any portion of the work is covered. A seven day notice is required.
4. Residents who utilize a private well for domestic water must have a water meter installed at the current cost for the purpose of billing for sewer based on water usage.

### **NOTE:**

#### **RULES AND REGULATIONS FOR THE USE OF PUBLIC SEWER**

Article IV Section I, B All costs and expenses incidental to the connection of the building sewer shall be borne by the owner. The owner shall indemnify the Town from any loss or damage that may directly or indirectly be occasioned by the installation of the building sewer.

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Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
(Owner)

Address: \_\_\_\_\_ Phone # \_\_\_\_\_

Address if not owner occupied: \_\_\_\_\_

### SECTION III

TO: Town of Norton Water/Sewer Department  
166 John Scott Blvd.  
Norton, MA 02766

RE: Sewer Service Connection

I/We the undersigned understand that if the sewer service connection does not go under the basement floor of my/our residence that I/we will be unable to install any plumbing fixtures in the basement of the residence. I/We will assume full responsibility for any future changes of the sewer service connection.

Signed: \_\_\_\_\_  
(Owner)

PRINT NAME AND ADDRESS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SECTION IV**

PERMIT and INSPECTION FEES: Due by the Contractor at the time of application.

RESIDENTIAL:                      \$ 200.00

COMMERCIAL/                      \$ 550.00  
INDUSTRIAL:

DATE: \_\_\_\_\_

CHECK # \_\_\_\_\_

**AT THE TIME OF APPLICATION PROPER DOCUMENTATION FROM THE BOARD OF HEALTH REGARDING SEPTIC SYSTEM ABANDONMENT MUST BE PROVIDED.**

\_\_\_\_\_  
Contractor's Signature

\_\_\_\_\_  
Date

**APPLICATION APPROVED AND PERMIT ISSUED:**

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
(Water & Sewer Superintendent)

Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_

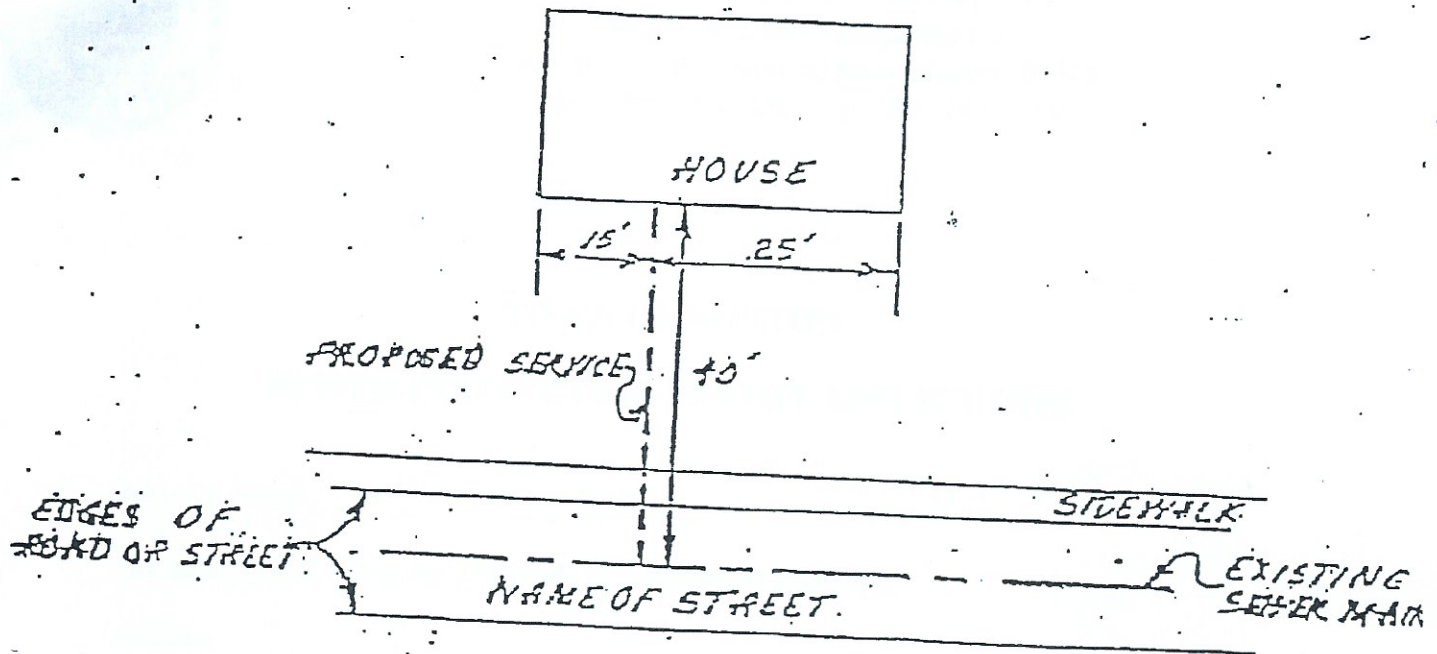


## **SECTION V**

In the area below, a sketch IS REQUIRED to show building, property line(s), streets, and sidewalks, existing mains, and proposed sewer service with appropriate distances indicated. Plan view and elevations are required. (See example on next page.)

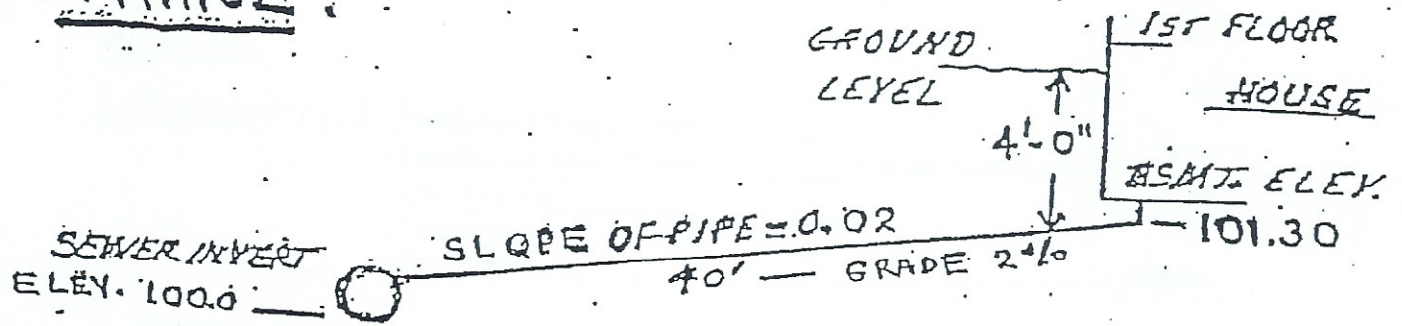
**A FINAL AS-BUILT DRAWING WILL BE REQUIRED WHEN TIE-IN IS COMPLETE.**

# PLAN VIEW



# ELEVATION

## EXAMPLE :



TYPICAL 6"  
SEWER LATERAL

Effective 12/22/2020 the Norton Water & Sewer Department requires the following:

**GRAVITY SEWER MAIN TIE-IN:** A Mainline Adapt-A-Valve (or equivalent with approval of the Water & Sewer Department) backwater valve must be installed to prevent any risk of backflow into the dwelling. This backwater valve will require an accessible cleanout and is to be installed between where the sewer line leaves the foundation and the cleanout at the curb.

**SEWER FORCE MAIN TIE-IN:** The only types of pipe that will be allowed for the discharge side of a pump are ENDOT HDPE Green Sewer Pipe (from Virgin PE4710 resin) or equivalent with approval from Water/Sewer Department. A push together pipe with a rubber seal may also be allowed with prior approval of the Superintendent. **Glued pipes will NOT be allowed** due to the significant risk of Inflow & Infiltration. All sewer service lines are required to have a swing check valve installed, between pump discharge and tie in to the main, to prevent any risk of backflow.

Effective 4/6/2021 the Norton Water & Sewer Department requires the following:

**GRAVITY SEWER MAIN TIE-IN:** An InsertaTee Fatboy (or equivalent with prior approval of the Water & Sewer Department) gasketed bell must be installed to prevent any risk of Inflow and infiltration into the main and prevent any risk of leakage into the ground. This gasketed bell is to be installed any time a new service is connected to a gravity main and must be inspected and approved by a designated department representative at time of installation. InsertaTee must be installed following manufacturer's instructions and specifications.

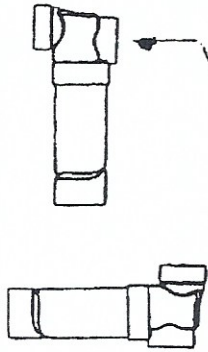
Effective 4/26/22 the Norton Water/Sewer Department requires the following:

**SEWER FORCE MAIN TIE-IN:** A Spears PVC & CPVC Hot-Tap Saddle (or equivalent with prior approval of the Water & Sewer Department) Industrial Grade Bolt-on Saddle with EPDM or FKM O-ring Seals, with Built-in Brass or Stainless-Steel Cutter and Type 316 Stainless Steel Hardware. This will be required for all connections to the municipal sewer force main.

**SEWER FORCE MAIN TIE-IN:** A Lateral Connection 316 Stainless Steel Curb Stop / Swing Check FIPT Assemblies for PE/PVC pressure piping applications (or equivalent with prior approval of the Water & Sewer Department) on all sewer service lines connecting to the municipal sewer force main.

**ALL SEWER TIE-INS:** Any tie-in must be completed within five business days of initial excavation. There will be no tapping of the sewer main and leaving the stub, for an undetermined amount of time, to finish the connection at a later date. **NO** back filling will be allowed without being previously inspected by a sewer department employee. Whenever any excavation is expected, the contractor must schedule an inspection with the Sewer Department no less than **SEVEN DAYS** in advance. When applying for a sewer permit, there must be a proposed drawing included with permit and an AS-BUILT drawing must be provided at final inspection.

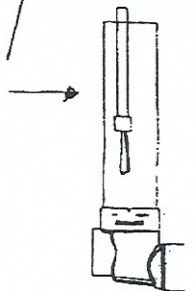
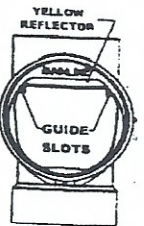
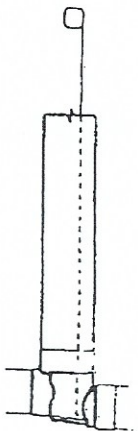


**MAINLINE****ADAPT-A-VALVE™****Extendable  
Backwater  
Valve****Models: ML-3XA (3" ABS)  
ML-3XP (3" PVC)****ML-4XA (4" ABS)  
ML-4XP (4" PVC)****\*\*\*\* Piping and Cleanout Cap supplied by others \*\*\*****\*\*\* Body Installation \*\*\***

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. **RECOMONDATION:** 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.backwatervalue.com](http://www.backwatervalue.com)

Toll Free 1-877-734-8691

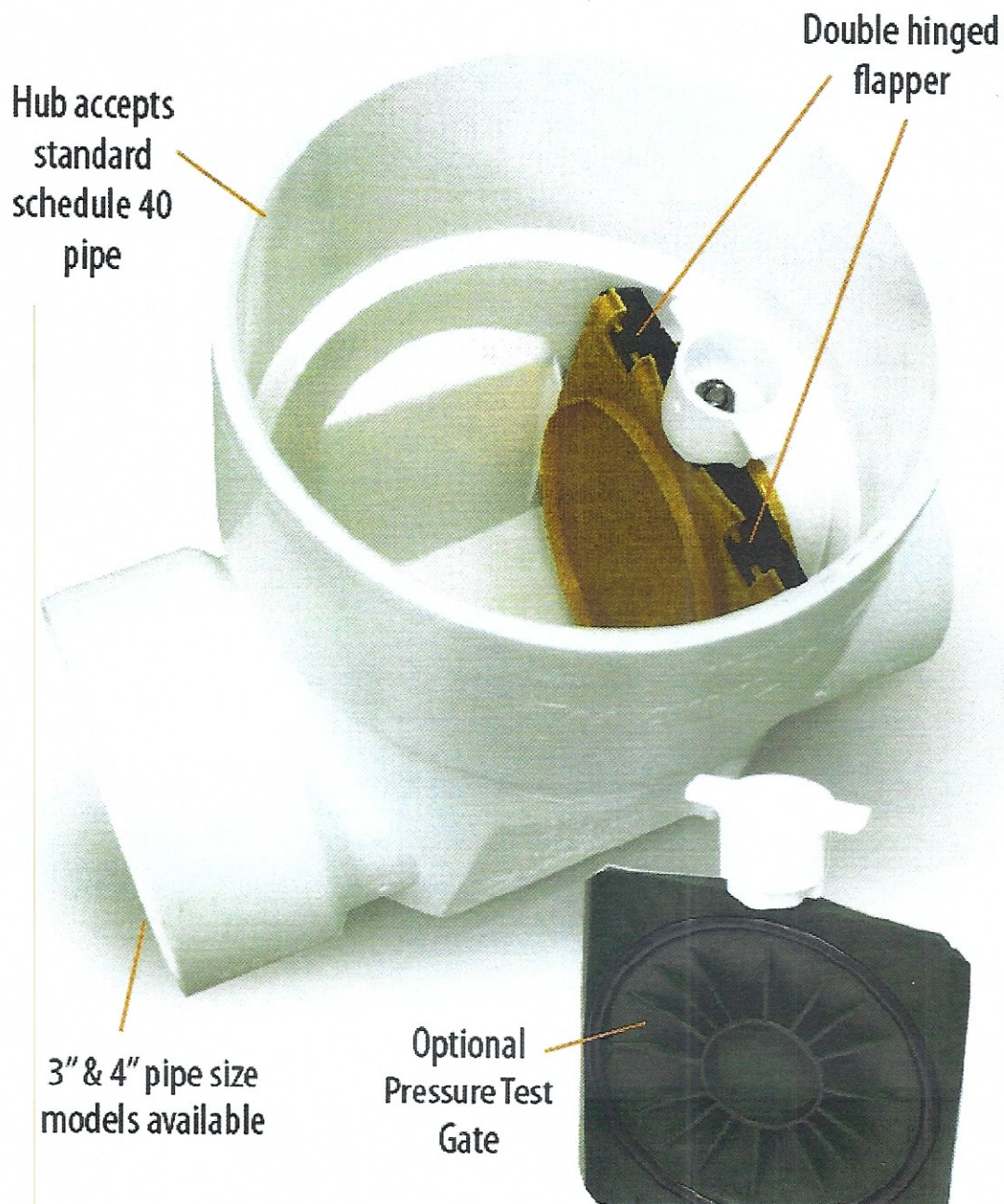
- [Diagram](#)
- [Valve](#)
- [ABS Adapt-a-Valve](#)
- [PVC Adapt-a-Valve](#)
- [ABS Open Gate](#)
- [ABS Closed Gate](#)
- [Diagram - Open](#)
- [Diagram - Closed](#)

[Home](#) > [Products](#) > Adapt-a-Valve

## Adapt-a-Valve Extendable Backwater Valve

The Adapt-a-Valve Extendable Backwater Valve was invented because there was a need to have easy access to enable servicing of backwater valves deeper than 2 feet. The only other options were expensive and unsightly 'vaults' or 'access culverts' in which someone had to crawl down to service the backwater valve. Another option, which was strictly against code but done by unscrupulous persons, was to completely bury a valve with no intention of ever servicing the backwater valve. The Adapt-a-Valve not only made extendible backwater valves easy to install, inspect and service, but with the special gate slot molded right into the body, it could easily be used for 'pressure' testing the ground works by adding the Test Gate feature. Hence, the name Adapt-a-Valve – because it could be adapted to various functions!





Available in ABS and PVC

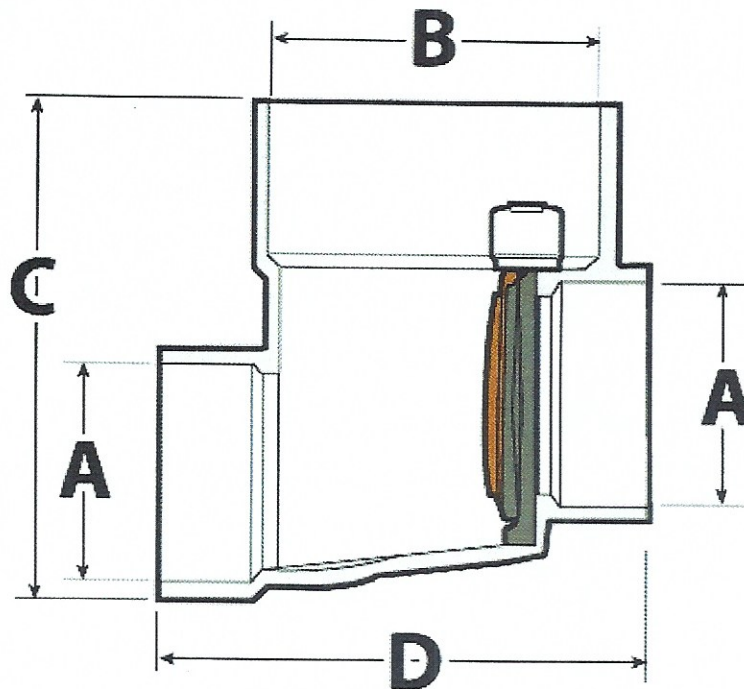
The combination Mainline "Adapt-a-Valve" Backwater valve is a break through in technology and is quickly setting a New Standard across North America.

## Physical Properties

The Adapt-a-Valve comes in two sizes; 3" with a 4" riser and 4" with a 6" riser.

The Adapt-a-Valve has integrally molded guide slots in the body which allow the fitting to be converted at any time to a backwater valve or a pressure testing device by simply adding from the list of the accessories available, should the need arise!





A	B	C	D
<b>3" Size Models</b>			
3"	4"	7"	7.5"
<b>4" Size Models</b>			
4"	6"	9-7/8"	9.5"

## Accessories

"Adapt-a-Valve" backflow accessories are what excel this extendible backwater valve years ahead of its time. The

"Test-Eze" gate for the Isolation of the sewer system

"Normally-closed" cassette (swing check)

"Normally-open" cassette which maintains the free circulation air from the plumbing system to the city sewer system.(available on 4" model only)

These optional accessories give the fitting the versatility that no other fitting has! (*Details Yellow Brochure*)

## Design / Engineering

### Reliability

In the engineering of the Mainline "Adapt-a-Valve" reliability was placed at the forefront.

We know that backwater valves are mechanical devices and require maintenance/cleaning to work effectively. They are products which are generally never maintained and are out of site - out of mind therefore the failure rate is high because they are only maintained or serviced after failure.

Because they sit in a sewage environment with little or no maintenance, Mainline's engineering staff knew that they needed to design a fitting that promoted "self cleaning".

The "self cleaning" - type action was achieved 3-ways!

The offset "step through design" from inlet to outlet gives the valve the grade that no other valve has, ensuring that no solids will build up in the valve body.(3/4" offset for 3" and 1 3/4" for the 4")

Using the valve in the "Normally- open" configuration allows this grade to continue through the body and offers zero flow restriction.

Utilizing the valve with the "Normally-closed" Cassette / Gate (swing check) we used a light weight gate with a lubricous shinny face that would not collect with sewage and restrict the flow.

In studying industry standard backwater valves (swing check) we found three common design flaws with every valve on the market:

#1. Every manufacturer has the seal on the gate, whether through the use of an o-ring or the use of a solid rubber gate. The problem with this is that because sewage has to push this gate open sewage easily collects and adheres to the o-ring or rubber gate.

#2. Some manufacturers use a heavy gate design with rubber gates and have a 'living' hinge for the swinging motion. This heavy gate can cause flow restriction and can attribute to solids building up on the gate making them ineffective during sewer back-up occurrences.

#3. All manufactures have minimal drops 1/4" through the valve bodies with little or no grade built through the body.

The result of these three design flaws means that sewage hits a heavy gate and slows right down, sewage collects on gate sealing surface and sewage stops with the minimal grade through the body. Stopped or slowed sewage will rest and settle at the bottom of the valve. All three of these flaws are common denominators to a high maintenance valve.

In the designing of "Adapt-a-Valve's" "Normally-closed" Cassette / Gate (swing check) the approach was simple: avoid the three contributing factors to valve failure. Because "Adapt-a-Valve" uses a cassette style cartridge, the seal is on the cassette not on the gate. The gate has a shiny lubricous face where sewage does not collect. "Adapt-a-Valve" utilizes a gate so light that one can literally 'blow' it open. Result? Next to no flow restriction. "Adapt-a-Valve" has a 1 3/4 " drop through the body on the 4" valve and 3/4" drop on the 3" valve which means ample grade through the body. This ensures that no sewage will remain in the valve body.

The advantage is that you have the very best in valve design when maintenance is of a concern. The step through design does limit "Adapt-a-Valve" to new construction and retrofits are allowed only when replacing the entire line to make up the inlet to outlet differences.

Test-Eze Gate (Isolation Valve and Pressure Testing)

The insertion of the Test-Eze Gate allows the system to be pressure tested as well as 'isolation' of the lateral . Isolation gates are used for closing off of the sewer system for flushing of city mains, servicing of sewer lines, abandonment of premises, disconnection due to non-payment of utilities, isolation of seasonal properties / hurricanes / etc., diversion valves for septic fields and for contractors pressure testing of plumbing systems upstream of the Inspection chamber / cleanout. A very versatile accessory!



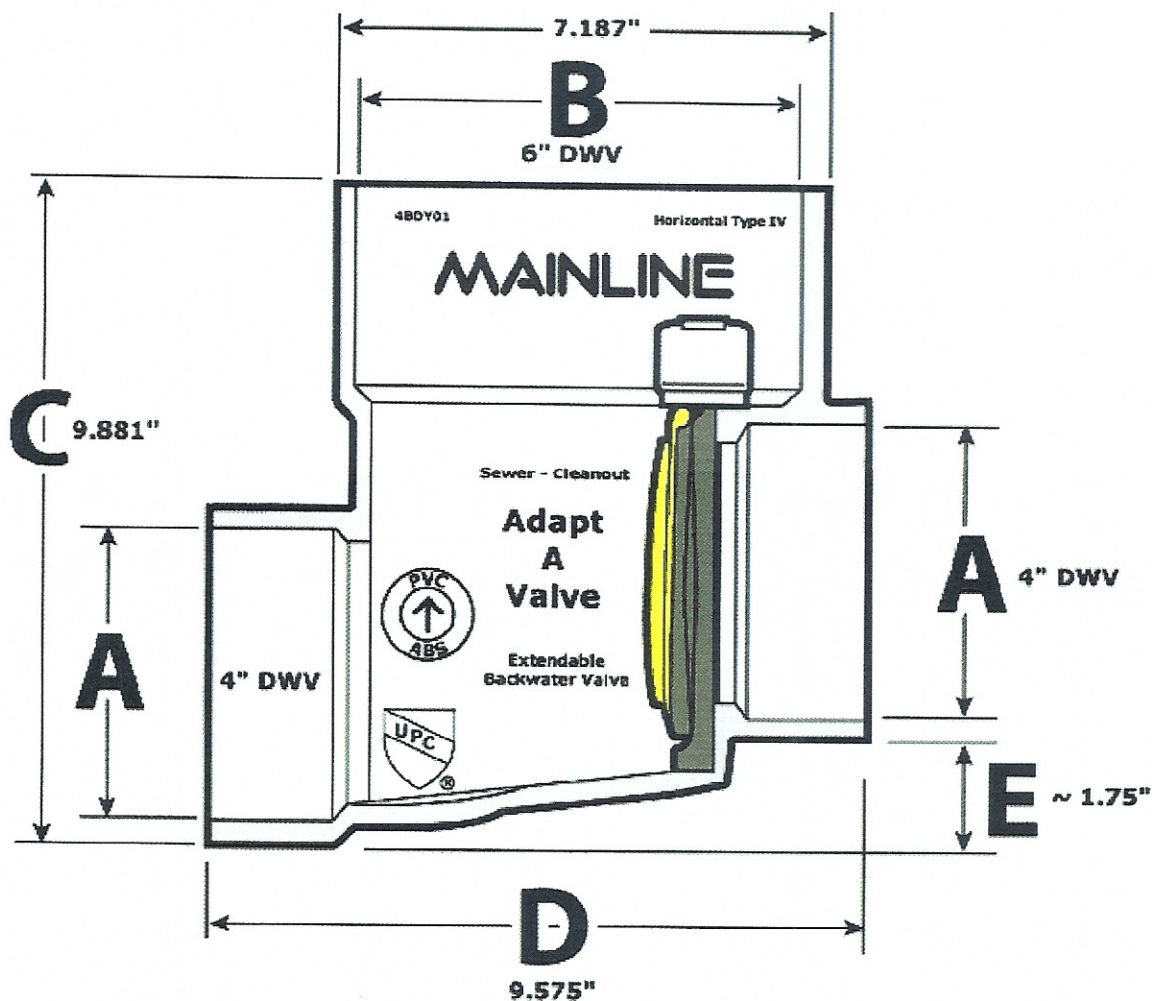
## Extendable Feature “EASY ACCESS”

Because backwater valves are mechanical devices and require access for maintenance, plumbing codes state any backwater valve deeper than 24” requires them to be installed in vaults or manholes. The “Adapt-a-Valve’s” ‘extendable features’ allow the body to be extended with standard DWV pipe and the cassette to be extended with standard ¾” PVC pipe. By extending the body and cassette the backwater valve feature can easily be removed or inserted from the top of the valve body opening this allows for easy servicing at any depth, eliminating the need for expensive vaults or manholes.

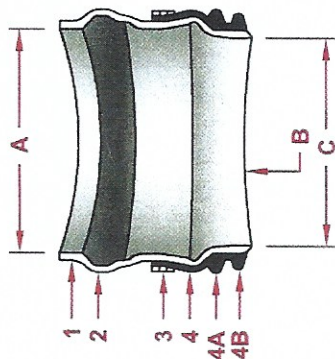
## Summary

By installing the “Adapt-a-Valve” Backwater Valve municipalities North America wide will have at their disposal the very best in technology. A municipality would have a “quick fix” solution with “Adapt-a-Valve’s” exceptional backflow protection options should a municipality ever experience a problem with sewer backups in any lateral. These backflow options would protect the lateral from backup thus saving the building from thousands of dollars in damage that could result in potential claims against the municipality.

## Diagrams ( ML-4XA/P Adapt-a-Valve)



# FATBOY, SDR 26, SDR 35 GASKETED BELL GRAVITY APPLICATIONS



- A.** BELL END ACCEPTS PIPE WITH SDR 26, SDR 35 AND ASTM D3034 OR EQUIVALENT O.D. SPECIFICATION IN 4" AND 6" SIZES.
- B.** CURVATURE VARIES WITH MAINLINE DIAMETERS.
- C.** SPIGOT END SDR 26, PVC SDR 35, ASTM D3034 DIAMETERS: 4" AND 6"

**MATERIALS**  
PVC SDR 26 ASTM D3034  
ASTM F477  
BAND SS #301  
SCREW SS #305  
HOUSING SS #301  
ASTM F477

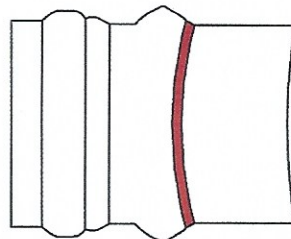
PART	PART NAME
1	HUB ADAPTOR
2	RUBBER GASKET
3	SECURING CLAMP*
4	RUBBER SLEEVE (AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
4A	UPPER SEGMENT**
4B	LOWER SEGMENT***

\* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING

\*\* DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE

\*\*\* WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

INSERTA TEE SIZE	HOLE DIAMETER
4" (100 mm)	4 1/2" (114 mm)
6" (150 mm)	6 1/2" (165 mm)



BUILT IN STOP  
FOLLOWS CONTOUR  
OF MAINLINE PIPE  
(PATENT PENDING)

CUSTOM MADE TO MATCH  
THE INTERIOR RADIUS OF THE  
MAINLINE PIPE OR STRUCTURE

NOTE: RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE INSTALLATION INSTRUCTIONS. HOLE SAWS ARE AVAILABLE FOR PURCHASE OR RENT.)



INSERTA TEE | PO BOX 714  
CORNELIUS, OR 97116  
PH: (503) 357-2110 FAX: (503) 359-5417  
SALES@INSERTATEE.COM

FATBOY, SDR 26, SDR 35 GASKETED BELL GRAVITY APPLICATION SPECIFICATIONS

SCALE:	NTS
DATE:	9/12/2013
DRAWN BY:	KLJ

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH INSERTA-TEE HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM INSERTA-TEE.



## Inserta Tee® Installation Instructions

Be sure you have the right hole saw. Each Inserta Tee requires a specific hole. Hole Saws are available for immediate shipment from the factory. 503-357-2110.

Drill Sizes Needed		Tools Required
4"	4 1/2"	8 lb Hammer
6"	6 1/2"	4 x 4 wood board
8"	8 3/4"	Inserta Tee Solution
10"	10 7/8"	(formula, 1 Tsp of dish
12"	12 7/8"	Soap in 16 oz of water)
15"	15 13/16"	
18"	19 3/16"	
24"	25 5/16"	
30"	32 1/2"	

### Installation

1. Core hole perpendicular to main (90 degrees), debur hole.
2. Insert rubber sleeve into hole with Gold line on sleeve facing up, at the 12:00 o'clock position. On manholes Gold line should face 9:00 or 3:00 o'clock. On ribbed pipe, rubber sleeve sits on top of ribs. Do not modify ribs.
3. Apply Inserta Solution to rubber sleeve and PVC hub. **DO NOT USE PIPE SOAP.** Pipe soap causes the hub to bounce out of sleeve when hit by hammer.
4. Push hub into sleeve using Red line on hub to match up to Gold line on sleeve.
5. Place 4x4 board across top of PVC hub and hit straight with hammer. Board facing up in ditch like Gold line works best. If hub goes in crooked, pull out and straighten. Hitting a crooked hub can cut sleeve. When Red line on PVC hub meets rubber sleeve, Stop. If you go past Red line gently tap PVC hub until hub backs out, to where Red line is visible.
6. When PVC hub is properly positioned with Red line meeting sleeve, tighten SS band. Primary purpose of SS band is for an immediate Air Test.

Note: CIPP & FFP installations, consult Factory for recommended tapping right onto liner. 503-357-2110

**"THE USE OF INSTALLATION METHODS OR HOLE SAWS NOT PURCHASED FROM INSERTA FITTINGS WILL VOID THE PERFORMANCE WARRANTY OF THE PRODUCT."**



# ENDOT INDUSTRIES, INC.

PIPE AND TUBING • DUCT AND INNERDUCT



## HDPE GREEN SEWER PIPE

HDPE pipe and tubing is an excellent choice for force main sewage or grinder pump applications because of its chemical and corrosion resistance. Endot has recognized the need for such applications and offers **Green Sewer Pipe** produced from Virgin PE4710 resin.

Utilizing the same co-extrusion process used to make our widely accepted Endopure potable water products, we have once again met the emerging demand for specifiable, color-coded, identification of buried underground utility lines.

### Endot **Green Sewer Pipe and Tubing** has the following features:

- Produced from 100% Virgin NSF Certified PE4710 HDPE Resin
- **Green** exterior shell co-extruded over a virgin clear HDPE core clearly identifies the pipe for sewage and non potable waste water applications only, minimizing harmful cross contamination errors that could occur in the field
- UV Protected for outdoor storage and to prevent sunlight deterioration
- Long seamless coil lengths ensures a leak free system
- Consecutive footage marks every 2 feet
- Permanent indent printing
- Minimum four point coil taping every 100 feet of pipe
- Available with an optional tracer-wire for ease of underground location (See our EndoTrace product)

**Green Sewer Pipe** is available in the following HDPE ASTM Standards from 1" – 2"

- ASTM D3035 IPS OD Controlled – SDR 11 200PSI
- ASTM D2737 CTS – SODR 9 250PSI

For more information regarding Endot **Green Sewer Pipe** or any Endot HDPE products, please contact your local Endot Sales Representative or contact us directly at 1-800 – 44ENDOT or email to [info@endot.com](mailto:info@endot.com)

**ENDOT INDUSTRIES, INC.**

[www.endot.com](http://www.endot.com) - e-mail [info@endot.com](mailto:info@endot.com)

CORPORATE HEADQUARTERS: 60 Green Pond Road, Rockaway, NJ 07866 – 800 443 6368 – FAX 973 625 4087

TENNESSEE OPERATIONS: Greeneville, TN 37745

OKLAHOMA OPERATIONS: Pryor Creek, OK 74361

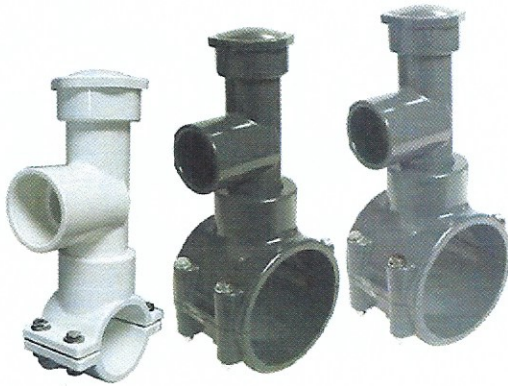




# PVC & CPVC Hot-Tap Saddles

HT-2-1112

## Allows Connection to Existing Pipelines Under Pressure



Specially designed tapping saddle allows pipe branch connection to pressurized "Hot" lines without system shut-down. Available in PVC White, Gray or CPVC Gray configurations.

- Industrial Grade Bolt-on Saddle with EPDM or FKM O-ring Seals and Choice of Zinc Plated Steel or Type 316 Stainless Steel Hardware.
- Built-in Brass or Stainless Steel Cutter Easily Cuts Hole in PVC, CPVC, HDPE and PP Pipe. Special Design Captures and Retains Coupon from Hole.
- Pressure Rated up to 235 psi @ 73°F.
- Available to fit IPS Pipe 2" through 8" with Versatile 3/4" Socket - 1" Spigot Combination Branch Outlet or 1"-1/2" Socket - 2" Spigot Combination Branch Outlet

### TECHNICAL DATA

#### Maximum Service Temperatures

PVC 140°F

CPVC 200°F

**Note:** Elevated service temperatures require system pressure de-rating.

#### Pressure Rating @ 73°F

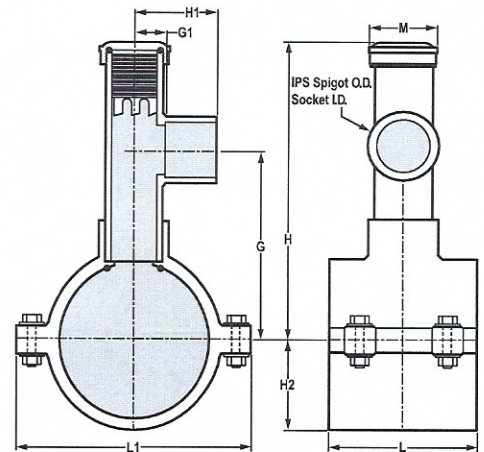
2" - 4" 235 psi

6" 200 psi

8" 150 psi

#### Not for Distribution of Compressed Air or Gas

Some leakage is possible during the tapping process, therefore "hot-taps" are not recommended for corrosive or dangerous fluid medium.



#### Dimensions - Saddle x Socket (Spigot)

Size	G	G1	H	H 1	H2	L	L1	M
2 x 3/4 (1)	3-9/16	1	6-3/16	2	1-1/2	2-7/16	3-1/2	2
2 x 1-1/2 (2)	4-9/16	1-1/4	8-15/16	2-11/16	1-1/2	2-7/16	3-1/2	2-7/8
2-1/2 x 3/4 (1)	3-15/16	1	6-9/16	2	1-3/4	4-1/8	4-1/8	2
2-1/2 x 1-1/2 (2)	4-13/16	1-1/4	9-3/16	2-11/16	1-3/4	4-1/8	4-1/8	2-7/8
3 x 3/4 (1)	4-1/6	1	6-11/16	2	2	3	4-3/4	2
3 x 1-1/2 (2)	5-1/4	1-1/4	9-5/8	2-11/16	2	4-1/8	4-3/4	2-7/8
4 x 3/4 (1)	4-11/16	1	7-5/16	2	2-5/8	3	5-13/16	2
4 x 1-1/2 (2)	5-13/16	1-1/4	10-3/16	2-11/16	2-5/8	4-1/8	5-13/16	2-7/8
6 x 3/4 (1)	6	1	8-5/8	2	3-7/8	3	8-1/8	2
6 x 1-1/2 (2)	7-1/8	1-1/4	11-1/2	2-11/16	3-7/8	4-1/8	8-1/8	2-7/8
8 x 3/4 (1)	7-1/4	1	9-7/8	2	4-7/8	8-1/2	10-1/8	2
8 x 1-1/2 (2)	8-9/16	1-1/4	12-9/16	2-11/16	4-7/8	8-1/2	10-1/8	2-7/8

PROGRESSIVE PRODUCTS FROM SPEARS' INNOVATION & TECHNOLOGY



## Basic Installation

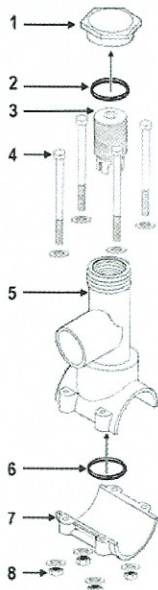
Hot-Tap Saddles are designed for adding branch connections to piping systems under live ("hot") pressure. Hot-Tap Saddle branch outlets are either 3/4" socket (with 1" Spigot O.D.) or 1-1/2" socket (with 2" Spigot O.D.) in saddle sizes 2" through 8" to fit IPS pipe using a built-in O-ring seal. Internal cutter is operated using conventional ratchet and drive extension and permanently retains coupon cut from pipe. Maximum operating pressure at 73°F is 235 psi for saddle sizes 2" - 4", 200 psi for 6" saddles & 150 psi for 8".

### SEE PRODUCT INSTALLATION INSTRUCTION FOR DETAILS

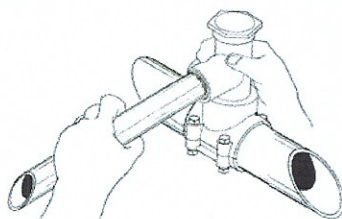
#### COMPONENTS

The Hot-Tap Saddle includes the following components:

1. Cap
2. Upper O-ring
3. Hot-Tap Cutter
4. Bolt/Washer
5. Saddle Body
6. Lower O-ring
7. Saddle Bottom
8. Nut/Washer



#### STEP 3 Cement Branch Take-off

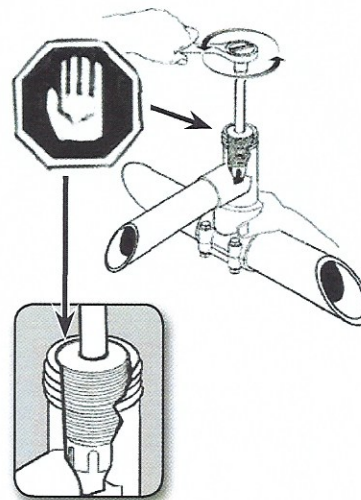


Allow joint to cure.

#### STEP 4 Remove Cap



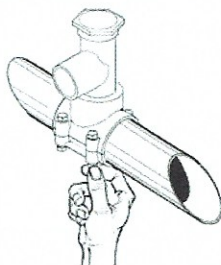
#### STEP 6 Back-off Cutter to Top to Open Flow



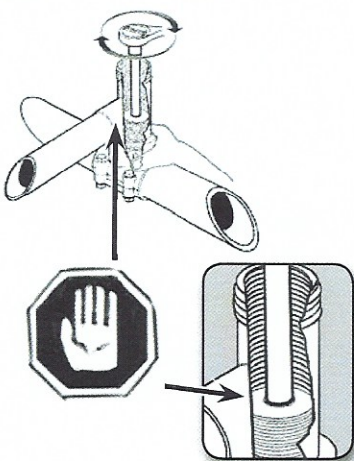
#### STEP 7 Reinstall Opening Sealed Cap



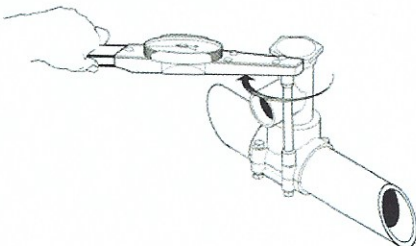
#### STEP 1 Assemble on Pipe



#### STEP 5 Tap to Required Depth



#### STEP 2 Torque to Specifications



**NOT FOR DISTRIBUTION OF COMPRESSED AIR OR GAS.**



**SPEARS® MANUFACTURING COMPANY**  
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# CURB STOP/SWING CHECK VALVES

## 316 STAINLESS STEEL

### DESCRIPTION

316 Stainless Steel Curb Stop / Swing Check FIPT Assemblies for PE/PVC pressure piping applications.

### TUBE

IPS(OD) For use on HDPE Pipe SDR 7.3 thru SDR 17 (Sizes 1-1/4" - 2" with Cepex Male Adapters)  
For use on Sch 40/80 PVC Pipe with SS Gripper Ring (Sizes 1-1/4" - 2" with Cepex Male Adapters)

CTS(OD) For use on Certified PE Pipe SDR 9 & SDR 11 (Sizes 1-1/4" - 2" with Cepex Male Adapters)  
For use on Cross Linked Pipe PE SDR 9 for Cold Water Only. (Sizes 1-1/4" - 2" with Cepex Male Adapters)

### WORKING PRESSURE

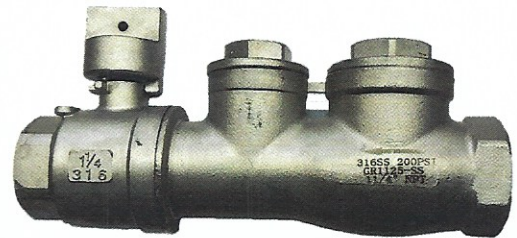
At 73° F (23° C) 1-1/4" - 2" rated to 200 PSI

### FEATURES

Female NPT threaded for easy adaptation to IPS/CTS polyethylene & PVC Pipe with Cepex Male Adapters

316 Stainless Steel Construction

Compact one piece design with curb stop, clean out and check valve  
Fully Serviceable Check Valve with vertical service port



1-1/4" SS Curb Stop / Swing Check Valve FNPT

### APPLICATIONS

Low Pressure Sewer

### PARTS - CURB STOPS

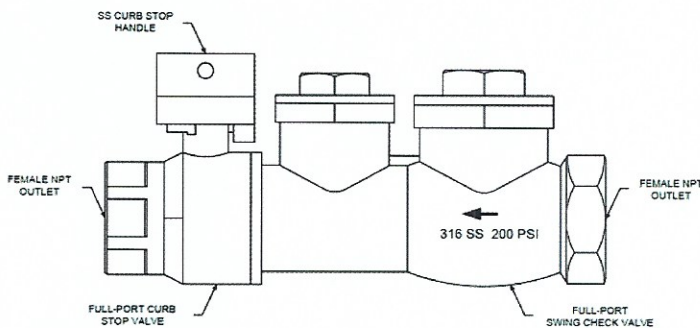


FIG.	Material	Description
1	316 SS	Curb Stop
2	316 SS	Swing Check
3	PTFE	Seats
4	RPTFE	Valve Stem Packing