



FIRE HYDRANT REPAIR

AVT™ EZ VALVE®



**Advanced Valve
Technologies**

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AVT EZ VALVE - INSERTION VALVE

The AVT EZ Valve insertion valve can be installed on a short section of live line with no need to shut off the water meaning it can be used to isolate fire hydrants that require repair or maintenance.

The valve uses an integrated isolation gate, which when operated after a slot has been milled across the pipe, allows the EM (end milling) machine to be removed and the bonnet with a resilient wedge to be installed.

The valve has already proved its value in several situations where fire hydrants required repair and maintenance and it was vital that local homes and businesses did not lose their water flow. The valve was comfortably installed on a 'T' line meaning only the hydrant was isolated from the main water flow.

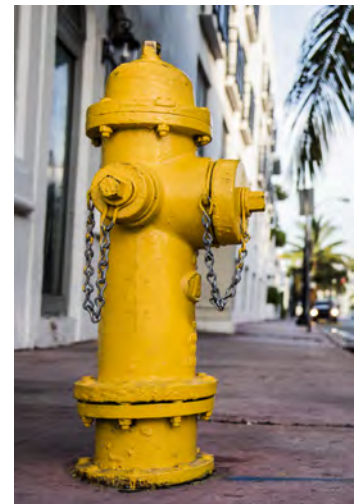
Available in sizes 1.5" to 12" the AVT EZ Valve is durable and reliable.



Typically fire hydrants are supplied by a 'T' line. This is a small section of water line that is fed by the main line running along a street. Conventional water valves require a large section of pipe to be available when installed due to the need for at least two excavations for the fitting of line stops and a valve, but the AVT EZ Valve, an insertion valve, requires just one small excavation meaning they can be fit on this small 'T' line and isolate the hydrant without having any effect on the rest of the local water supply.

BENEFITS & VALUES:

- No high-profile tapping equipment required
- No system shutoff required during installation
- No service interruption
- No risk of plugging the line with a cut coupon
- No loss of pipe integrity
- Four times quicker to install than other valves on the market - just 1 to 2 hours depending on size
- Only one excavation required for water line repair
- No concerns regarding ice plugs not holding when freezing pipes



FEATURES

DESIGN

- Unique, patented technology
- Low profile design
- Ductile iron castings
- Patented gaskets which conform to irregular pipe geometries and sizes
- Size 1.5" to 12"

INSTALLATION

- Can be installed on all common pipe materials
- Installs at any angle
- Integrated isolation valve means the valve bonnet can be removed after a repair or remain in place as a permanent functioning valve
- Customizable for special applications

SAFETY

- Approved Epoxy Resin Coating
- Stainless Steel Restraining Bolts for secure positioning
- 1.5 and 2": Working pressure of 100 PSI, (7 Bar)
- 3" and above: Working pressure of 250 PSI, (17 Bar) - Tested Pressure to 375 PSI (26 Bar)
- For non-water applications all sizes rated to 30 PSI (2 Bar)
- EZ Valve Components are WRAS Certified, meet UL Classified to NSF/ANSI Standard 61, Drinking Water System Components -Health Effects and AWWA C-509-01/C515-15 standards

INSTALL PROCESS



1

Prepare Insertion Site

Prepare insertion site by lubricating the gasket and contact areas



2

Lubricate Gasket Sets & Channels

Lubricate gasket sets and gasket channels in casting bodies



3

Assemble Ductile Iron Castings

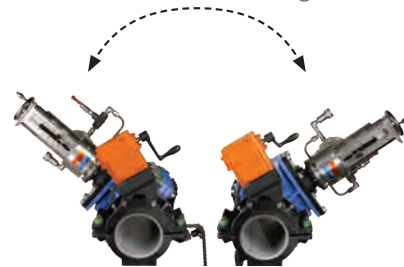
Assemble ductile iron castings with ductile iron fasteners to accept a pressure test and temporarily allow rotation for milling



4

Attach EM Machine

Check integral isolation gate is fully open, fit rotation assembly, attach EM machine and apply pressure tests



5

Mill A Slot Over a 120° Path

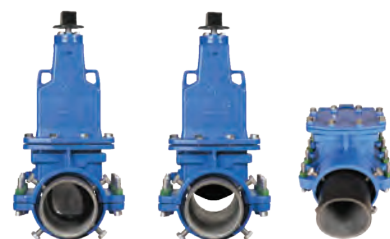
Maintaining system line pressure, mill a slot over a 120° path
(Note: The slot normally is cut to provide for vertical valve alignment, but the installer can select any position.)



6

Retract The Milling Head

Retract the milling head, close the integral isolation gate. Replace the EM Machine with the resilient wedge bonnet, remove the rotation assembly and tighten casting fasteners to specified torque values



7

Open and Operate

Open the integral isolation gate and operate the AVT EZ Valve. For line stop applications, replace the valve bonnet with a blind flange using the integral isolation gate

CUT AWAY VALVE WITH KEY

Wrench Nut

Standard number of turns to open and close valve

Removable Valve Bonnet

Resilient wedge gate and actuation mechanism are contained for fast and easy installation or removal

Resilient Wedge

A wedge gate over a ductile iron frame that effectively seals even tuberculated host pipe

Gasket & Channel

Maintain system pressure while allowing rotation of casting assembly during slot-milling

Integrated isolation valve

Provides "under pressure" installation or removal of valve bonnets or blind flanges

Restraining Bolts

Stainless steel components secure casting assembly and provide final positioning on pipe

Insertion Slot

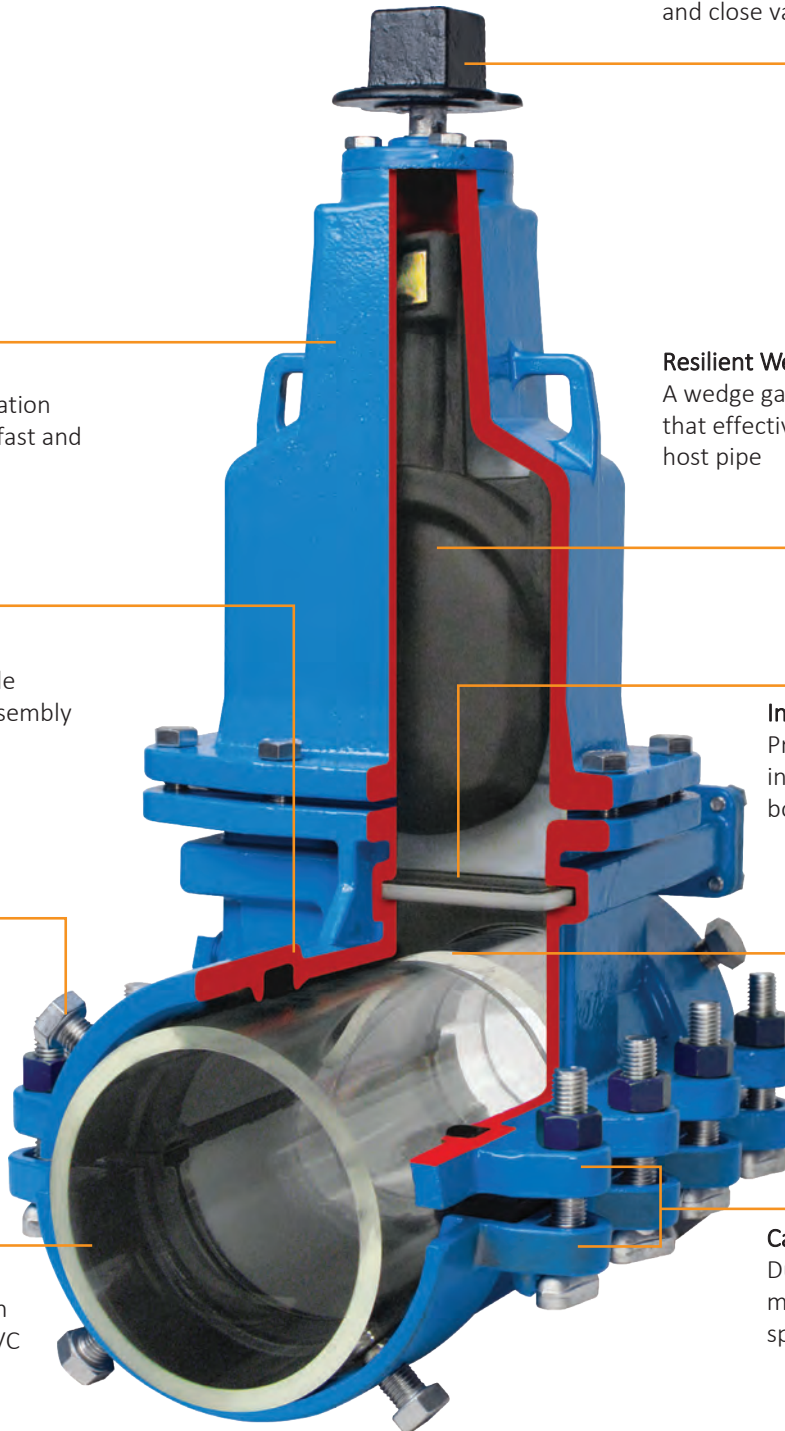
One narrow slot over a 120° path maintains pipe integrity and creates resilient wedge access

Pipeline Compatibility

The EZ Valve design works with most metallic pipes, AC and PVC materials

Castings

Ductile iron castings are precision machined to fit project specifications and pipe material



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Advanced Valve Technologies

Advanced Valve Technologies (AVT) is part of ClockSpring|NRI, the high-performance critical infrastructure solutions company. AVT's advanced solutions are based on simple designs that minimize risk to the environment and reduce costly downtime. Our primary focus is on disruptions in water service that cost providers money and leave end users without service.

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