INSERTION VALVE SOLUTIONS FOR MECHANICAL CONTRACTORS

AVT™ EZ VALVE®

Advanced Valve Technologies

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AVT EZ VALVE - INSERTION VALVE

The AVT EZ Valve is the ideal solution for mechanical contractors who are responsible for the heating or cooling systems, refrigeration, piping, HVAC and plumbing of a building.

Many times, when contractors need to install valves on aged water systems they are left with little choice but to shut off the supply to the whole building before they are able to make any repairs or additions to the water system. AVT's EZ Valve is an insertion valve that can be installed on a live water line without the need to shut off the flow and has been proven to save time and money as well as ensure vital services remain live during building repair and 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 a range of applications from the isolation of a booster pump in a hospital to the additions of a control point in an office block.

Available in sizes 1.5" to 24" the AVT EZ Valve is durable and reliable.

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 24”

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**

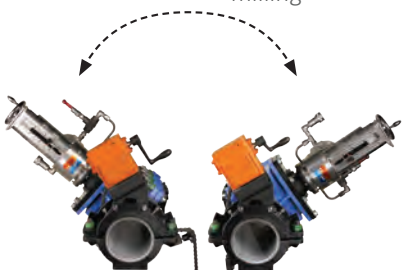
Lubricate gasket sets and gasket channels in casting bodies

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.)

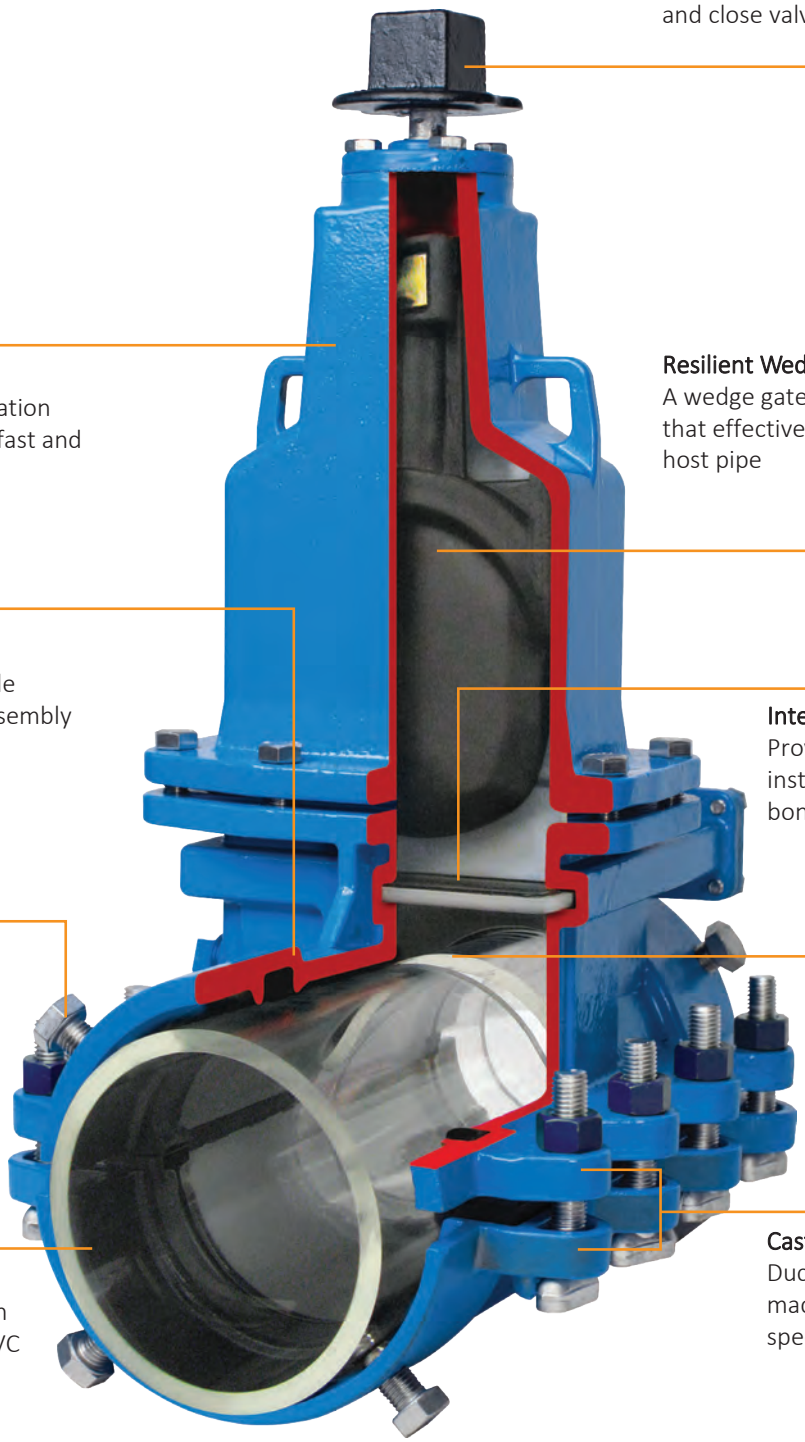
6 Retract The **Milling Head**

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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