



Advanced Valve Technologies

A CLOCK SPRING COMPANY

AVT EZ Valve™ Kit

The AVT EZ Valve™ Kit enables safe and efficient installation of the award-winning AVT EZ Valve™. The innovative EM (end milling) machine is the only one of its type on the market that mills a 120° slot around the pipe rather than cutting a coupon or removing a section of pipe. This design allows the valve to be installed under pressure, enabling faster restoration than alternative solutions, preserving pipe integrity, and allowing installation under full pressure with no need to shut off the water supply.

The AVT EZ Valve™ Kit provides everything necessary for installation, including:

1.5, 2 & 3",

(40mm to 80mm) Kit

- 1 End Mill Machine (1.5" and 2", (40mm and 50mm) - Nano)

OR

- 1 End Milling machine (3", (80mm) - Micro)
- 1 Drive Motor: Hydraulic, Pneumatic, or Electric
- 1 Plug Insertion Tool
- 1 End Mill Cutter
- 1 Central Drill Hexagonal Screw Drive
- 1 Set of Replaceable teeth
- 1 Rotating Feed Apparatus (1.5", 2" or 3", (40mm to 80mm))
- 1 Drive Chain
- 1 Hand Crank
- 1 Export Hose
- 1 Debris Collection Bag
- 1 Tool Kit

4, 6, 8, 10 & 12",

(100mm to 300mm) Kit

- 1 End Mill Machine (4" - 12", (100mm to 300mm) Capability)
- 1 Drive Motor: Hydraulic, Pneumatic, or Electric
- 1 Temporary Valve (4" - 8", (100mm to 200mm))
- 1 Temporary Valve (10" - 12", (250mm to 300mm))
- 1 Plug Insertion Tool
- 1 End Mill Cutter
- 1 Central Drill Hexagonal Screw Drive
- 1 Set of Replaceable teeth
- 1 Rotating Feed Apparatus (4", 6", 8", 10" or 12", (100mm to 300mm))
- 1 Drive Chain
- 1 Hand Crank
- 1 Export Hose
- 1 Debris Collection Bag
- 1 Tool Kit
- 2 End Rings of relevant size

14, 16, 18, 20 & 24",

(350mm to 600mm) Kit

- 1 End Mill Machine (14" - 24", (350mm to 600mm) Capability)
- 1 Drive Motor: Hydraulic
- 1 End Mill Cutter
- 1 Central Drill Hexagonal Screw Drive
- 1 Set of Replaceable teeth
- 1 Rotating Feed Apparatus (14", 16", 20" or 24", (350mm to 600mm))
- 2 End Rings of relevant size
- 1 Drive Chain
- 1 Hand Crank
- 1 Export Hose
- 1 Debris Collection Bag
- 1 Misc.Tool Kit



With the Kit in hand, there is no need to purchase another kit for subsequent installations on the same size valves, and planning for maintenance is easy. Once the new AVT EZ Valve™ Kit and valve arrive, repairs can get underway quickly.

Applications

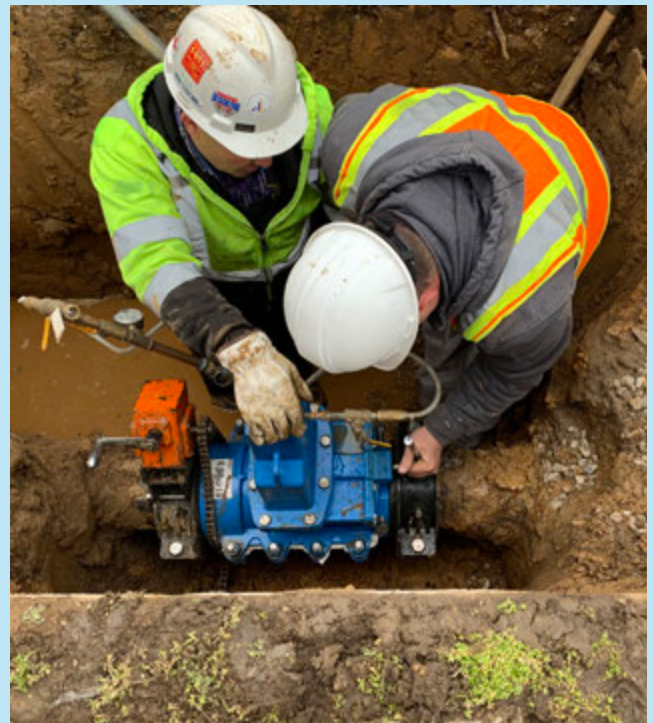
- Municipal water networks
- Transmission and distribution lines
- Wastewater treatment plants
- Process plants
- Offshore (oil rigs)
- High-rise buildings
- Multiple occupancy buildings
- Sewer force main
- Ground storage tank isolation
- Refining and petrochemical plants
- Commercial buildings / isolation
- Industrial process piping

Features

- Everything needed for installation arrives in one box
- Lightweight, compact installation equipment
- Fewer bolts used than other options available
- Tools designed for installation under pressure
- Simple installation instructions
- End Mill machine includes a 'stop' mechanism to prevent over or under rotation

BENEFITS & VALUE:

- No waiting for installation tools
- Faster emergency repairs
- Simplifies maintenance planning/execution
- No guesswork regarding installation methodology
- One excavation required rather than two or three meaning lower cost of install
- Less time in the excavation for operators meaning safer working conditions



Warranty: A One Year warranty covers parts and labor for Equipment and Valves (Excluding Perishable Tooling and O-Rings) barring misuse or lack of routine maintenance.

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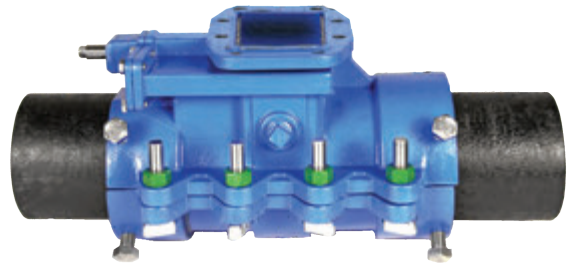


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Install process



Step 1: Prepare insertion site



Step 2: Assemble ductile iron castings with integrated isolation valve

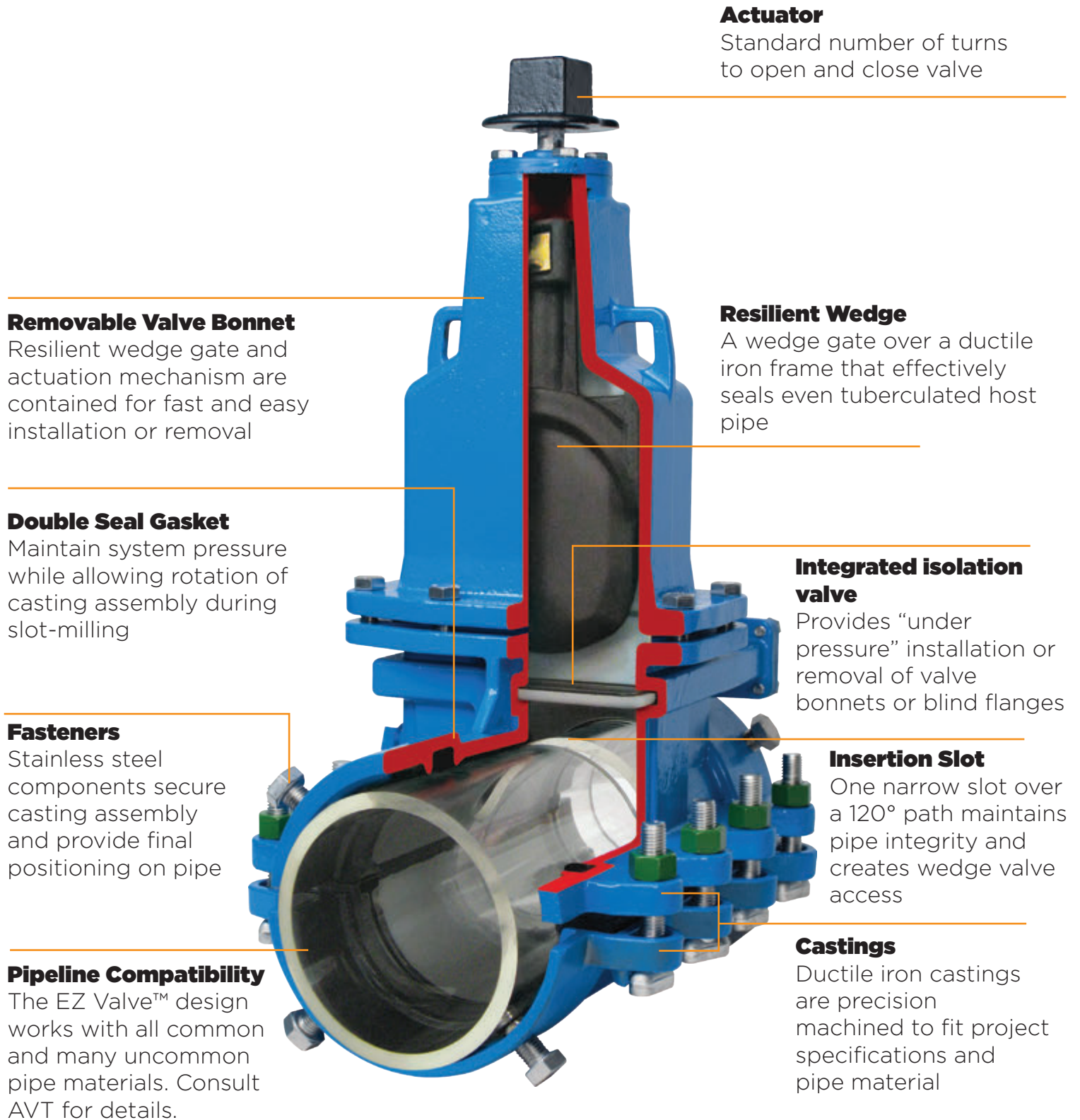


Step 3: Attach milling tool and mill 120° insertion slot



Step 4: Close isolation valve, replace milling tool with valve bonnet. Open isolation valve and operate EZ Valve as needed

Cut away valve with key



Actuator

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

Double Seal Gasket

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

Fasteners

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 wedge valve access

Pipeline Compatibility

The EZ Valve™ design works with all common and many uncommon pipe materials. Consult AVT for details.

Castings

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