



**Advanced Valve
Technologies**

A CLOCK SPRING COMPANY

Who **We Are**

Advanced Valve Technologies, a Clock Spring Company (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.

Recognizing that the best tool would allow water flow while repairs were being made, we initiated an R&D program to come up with a product that allows service to continue while repairs are being made.

All of AVT's industry-leading products are easy to install, cost-effective to deploy, and durable for decades.

The **AVT Portfolio**

- AVT EZ Valve™
- AVT EZ Valve™ Kit
- Online training curriculum



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AVT EZ Valve™

Our award-winning inline insertion valve delivers unequalled performance and easy installation.



Design Features

- Unique, patented technology
- Low-profile design
- Integral isolation valve
- Ductile iron castings
- Corrosion resistant coatings
- Stainless Steel fasteners for secure positioning
- Patented multichannel double-seal gaskets conform to irregular pipe geometries and sizes

- No water shutoff required during installation
- No service interruption
- No fines for water shutoff
- No boil orders
- No customer notices
- 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
- Only one excavation required for water line repair

- Can be installed on all common pipe materials
- Sizes 50mm (1.5 inches) to 600mm (24 inches)
- Customizable for special applications (Sleeves to meet steel pipe ODs)
- Installs at any angle
- Valve bonnet can be removed after a repair or remain in place as an inline valve
- EZ Valve Materials are WRAS Certified, meet AWWA C-509/C-515 standards, UL Drinking Water System Component ANSI/NSF 61 and is Certified to NSF/ANSI 372 MH4914



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AVT EZ Valve™ Kit

Comes complete with all the tools and equipment required to install our unique, award-winning valve, including end milling (EM) machines in a range of sizes:

Size Range

- Nano EM machine: used for 1.5 and 2 inches
- Micro EM machine: used for 3 inches
- Small EM machine: used for 4 to 12 inches
- Large EM machine: used for 14 to 24 inches

All in One Box

- 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

Every Kit Includes:

- EM (End Milling) Machine
- Fasteners
- Cutterhead (45mm - 60mm)
- Spare cutterhead /teeth
- Power pack
- Measurement callipers
- Pressure test plate
- Pressure source
- End rings & U-gauge (size specific)
- Combination wrenches (various sizes)
- Allen wrenches (various sizes)
- Ratchet wrench
- Sockets
- Adjustable wrench
- AVT Assembly Grease & Tape
- Level



Online Training Curriculum and Installation

AVT has created a robust online training curriculum that takes new installers and operators through a full training program needed to install 4-inch to 12-inch valves. Plans are in place to expand the self-directed training instruction for larger and smaller diameter valves.

The Curriculum Covers:

1 Pre-Installation

- Parts overview
- Supplies required to install the valve
- Excavation and pipe access
- Valve placement

3 Operation & Maintenance

- Maintenance
- Storage
- Grease and tape
- Installation equipment maintenance

Our experienced installers are on hand to offer advice and guidance during installation and are available by phone and email 24/7 for continuing support.

2 Installation Process

- Surface preparation
- Pre-install checks
- Pipe preparation
- Measuring, taping, and greasing
- Mounting the valve and machine equipment
 - End rings
 - Gear box
 - Level and set
- Pressure testing
- Cutting and swarf removal
 - Milling assembly
 - Slot milling and swarf removal
- Installing the bonnet

4 Processes Safety and Assurance

- Trained staff
- Risk assessment
- PPE
- Safe work practices

Our **Locations**

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