



# AVT™ EZ VALVE®

80mm data sheet

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**Advanced Valve  
Technologies**

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# AVT EZ VALVE 80MM

The award-winning AVT EZ Valve is the best choice for emergency repairs and the smartest solution for planned and emergency pipeline maintenance on 80mm diameter lines.

This inline insertion valve can be installed on horizontal or vertical lines. The AVT EZ Valve installs on an active line, so there is no need to turn off the water flow. This means fixing a line is fast, with fewer disruptions to businesses and residents and less cost and risk for owners and operators. On pipe diameters of 80mm these valves normally can be installed in around an hour.

Ranked among the industry's most innovative solutions, the light and compact AVT EZ Valve is designed with a built-in isolation gate that allows the valve to be installed under pressure, a design feature that permits flow through the line while the repair is being made. It is durable, reliable, and certified to industry standards.

## BENEFITS & VALUES:

- 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

## APPLICATIONS:

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



## FEATURES

### DESIGN

- Unique, patented technology
- Low profile design  
Ductile iron castings
- Integrated isolation valve
- Patented multichannel double-seal gaskets conform to irregular pipe geometries and sizes
- Size 80mm

### INSTALLATION

- Can be installed on all common pipe materials
- Installs at any angle
- Valve bonnet can be removed after a repair or remain in place as a permanent functioning valve

### SAFETY

- Approved epoxy resin coated
- Stainless steel fasteners for secure positioning
- Working pressure of 250 PSI, (17 Bar) – Tested Pressure to 500 PSI (34 Bar)
- EZ Valve Components are WRAS Certified, meets AWWA C509 & C515 standards (latest versions) and UL Classified to NSF/ANSI Standard 61, Drinking Water System Components - Health Effects



# 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 stainless steel fasteners to accept a pressure test and temporarily allow rotation for milling



4

## Attach EM Machine

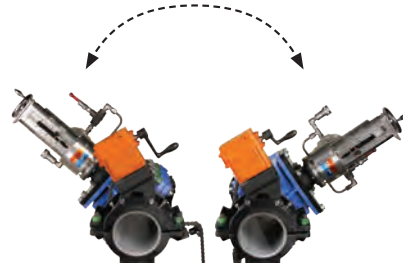
Check integral isolation gate is fully open, fit rotation assembly, attach EM machine and apply pressure tests



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

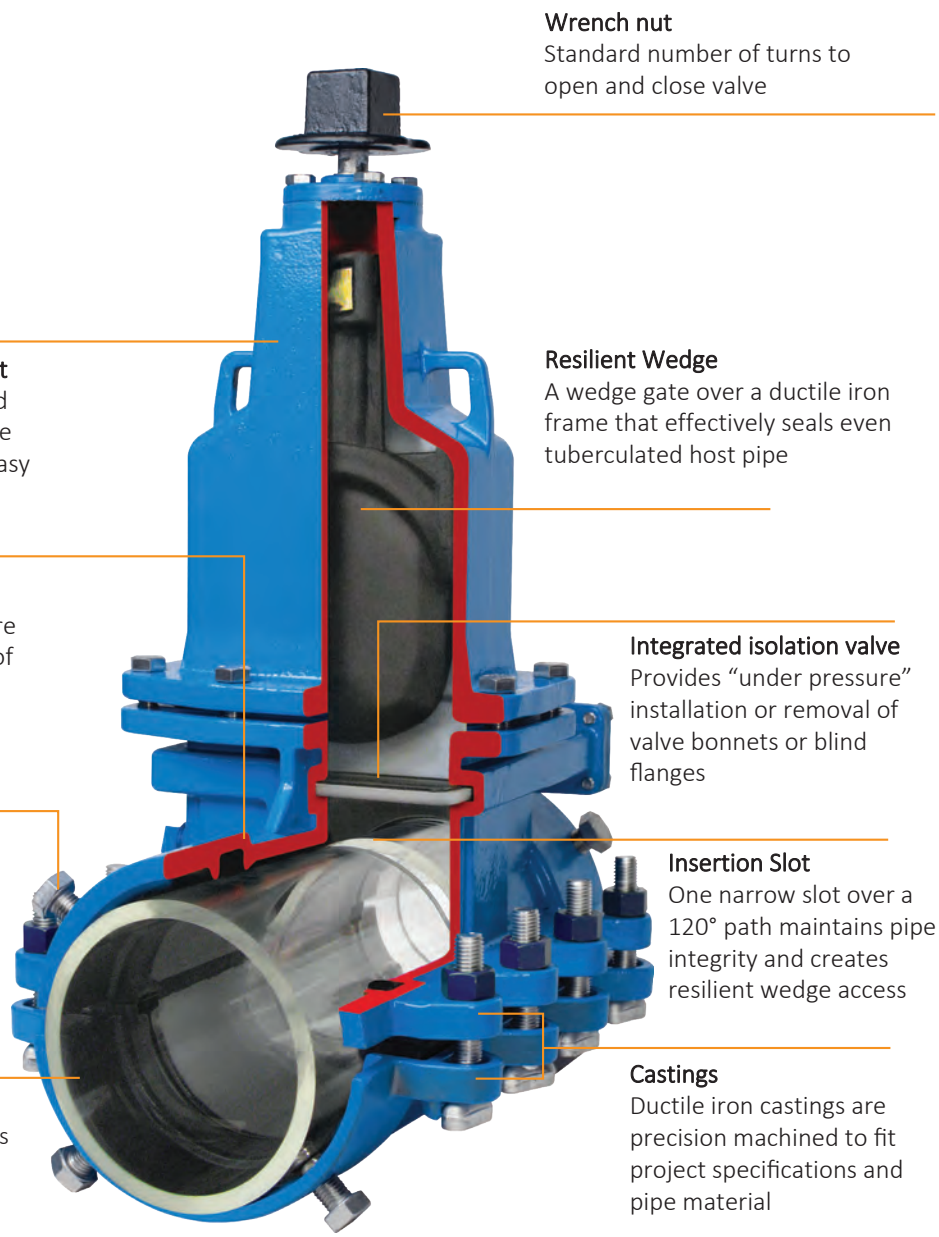
7

## 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

## 80MM EZ VALVE DIMENSIONS & DIAMETRICAL RANGE

### WEIGHT

Size	WEIGHT
80mm	24kg

### DIAMETRICAL RANGE

Pipe Size	Diametrical Range
80mm	86.5mm to 101mm

### SIZE

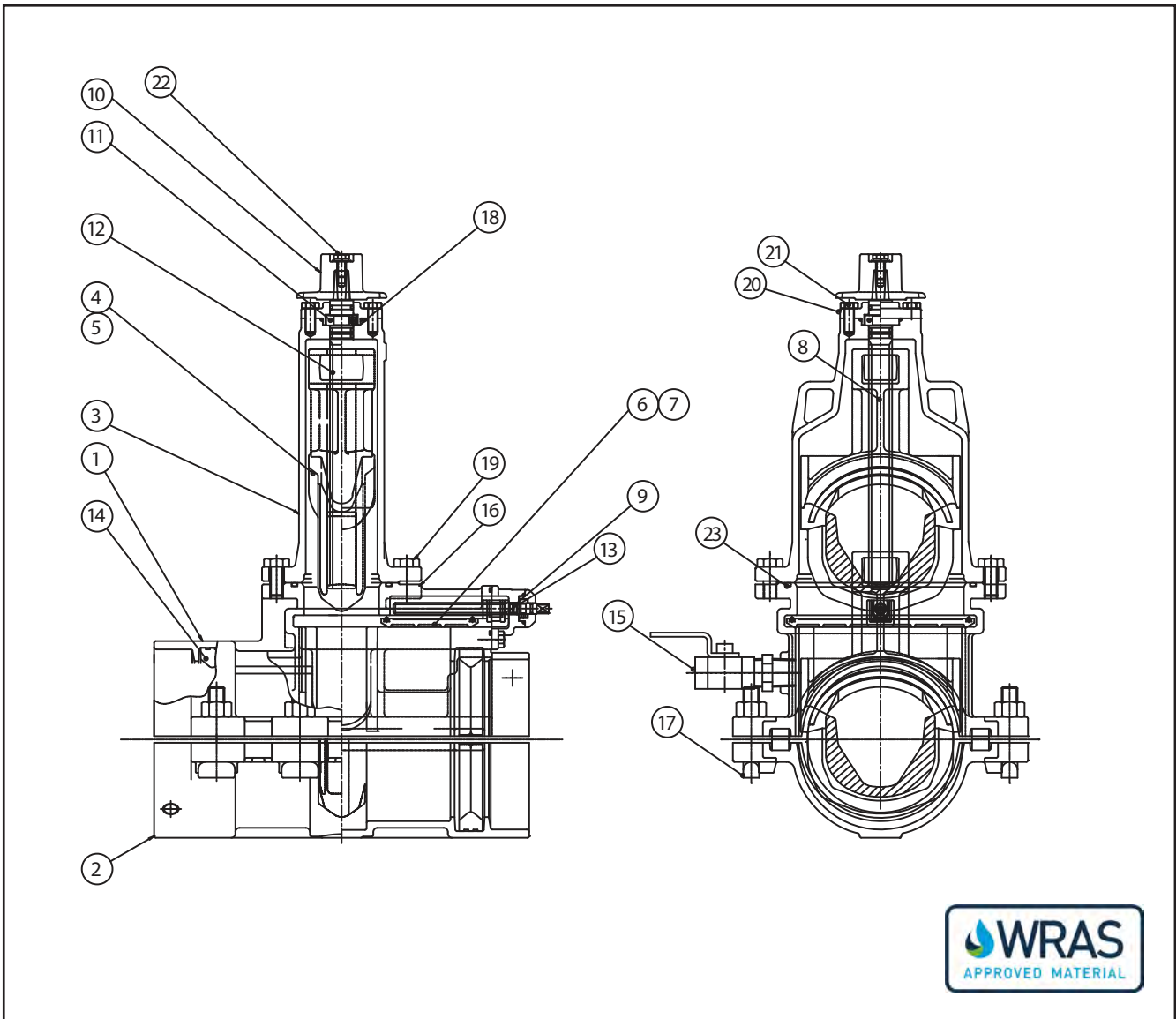
Size	Height (H1)	Height(H2)	Length	Width
80mm	486mm	354mm	225mm	236mm

### INSTALLATION

Size	Clean pipe
80mm	865mm

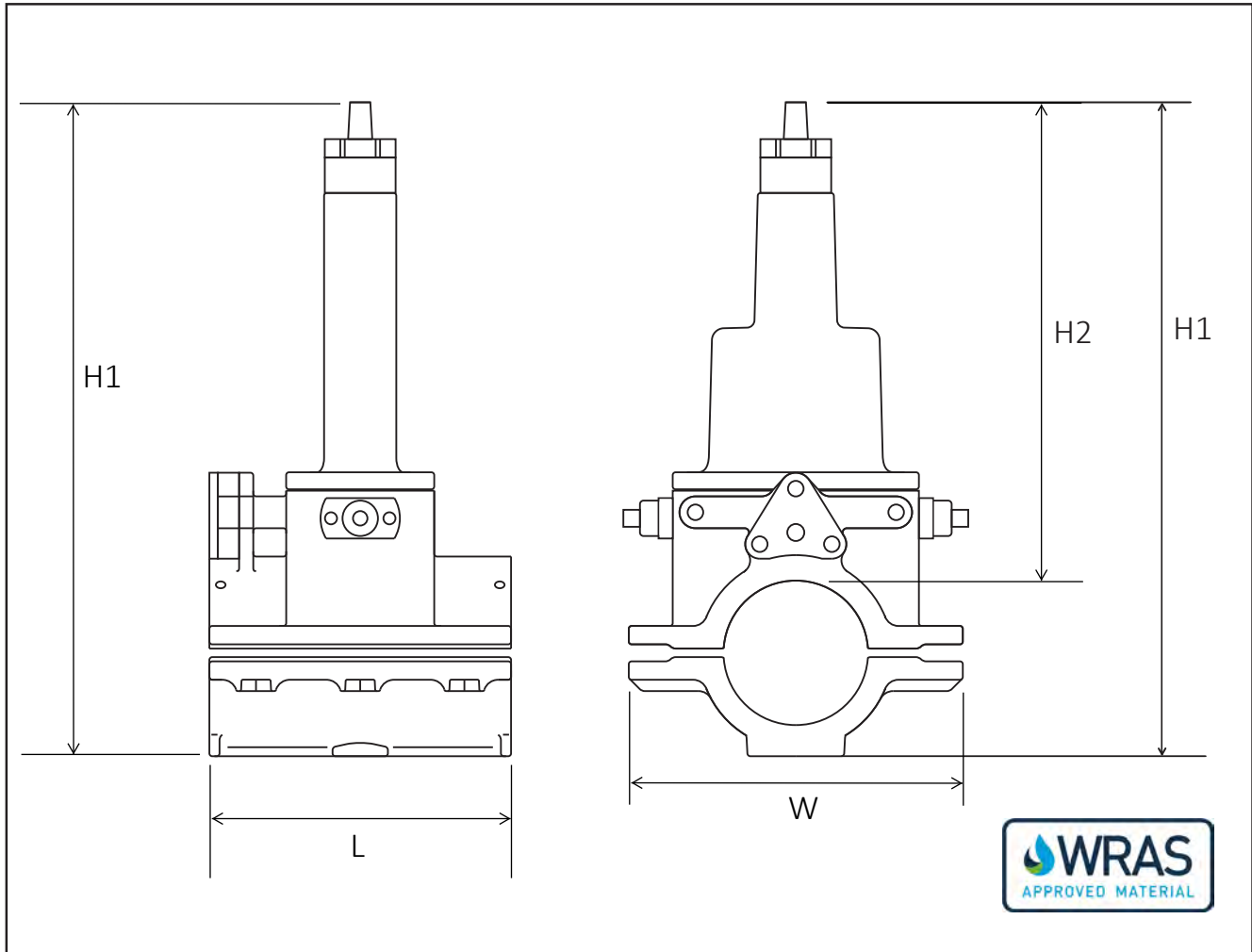
Clean, joint-free length of pipe required to allow for standard EZ Valve installation

# 80MM EZ VALVE SPECIFICATIONS



Item No	Description	Material
1	Upper Half of Body	DUCTILE IRON
2	Bottom Half of Body	DUCTILE IRON
3	Bonnet Body	DUCTILE IRON
4	Gate	DUCTILE IRON
5	Gate Rubber	EPDM
6	Isolation Gate	BRONZE
7	Isolation Gate Rubber	EPDM
8	Stem (Feed Screw)	STAINLESS STEEL
9	Isolation Gate Stem	STAINLESS STEEL
10	Wrench Nut	DUCTILE IRON
11	Set Collar	BRONZE
12	Stem Nut	BRONZE
13	Isolation Gate Stem Nut	BRONZE
14	Gasket	EPDM
15	Chip Flushing Port	N/A
16	EM Cutting Port	N/A
17	Fasteners & Nuts	STAINLESS STEEL
18	O-Rings	BUNA-N
19	Bonnet Bolts	STAINLESS STEEL
20	Bonnet Bush	DUCTILE IRON
21	Bush Fasteners	STAINLESS STEEL
22	Bolt for Wrench Nut	STAINLESS STEEL
23	Bonnet O-Ring	EPDM

# 80mm EZ VALVE CUT SHEET



## SPECIFICATIONS

1. Bottom Half Body: DI. ASTM A536 65-45-12
2. Upper Half Body: DI. ASTM A536 65-45-12
3. Bonnet: DI. ASTM A536 65-45-12
4. Gate: DI. ASTM A536 65-45-12
5. Gate Rubber Coated: EPDM ISO 4097:2014
6. Stem: Stainless Steel 17-4PH
7. Gasket: EPDM ISO 4097:2014
8. Set Collar: Bronze C954 (AWWA C-509-01)
9. Stem Nut: Bronze C954 (AWWA C-509-01)
10. Wrench Nut: DI. ASTM A536 65-45-12

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

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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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