

ACV Service Options

1. Repair

We offer a full range of spare parts and repair kits to help restore your valve to peak operating condition.

2. Replace

If the valve is aging or significantly worn, a full replacement may be the faster and more cost-effective solution.

3. Upgrade

If your valve station is aging or multiple components have failed, it may be a good time to upgrade your system with a modern valve that includes smart & connected technology for improved monitoring and control.



Specify Watts ACVs in These Channels:

Potable (Drinking) Water



Reuse/Reclaimed Water



Industrial Water



Agriculture



Wastewater



Shipyards



Fire



Irrigation



Mining



Contact your local Watts or Ames representative for sales, support, and service

Precision Under Pressure

Watts & Ames Automatic Control Valves (ACV)



Reliable Flow Control

Ensure consistent, accurate performance across diverse water system applications.



Engineered for Precision

Designed to maintain optimal pressure, flow, and system stability with minimal intervention.



Versatile Design

Supports a wide range of configurations to meet the needs of any water system.

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AMES
FIRE & WATERWORKS

ACV Corrosion from Water

💧 **Hard Water** - Water with high levels of minerals like calcium and magnesium can cause scale buildup. This buildup can speed up corrosion caused by microbes, especially on ductile iron, copper, and leaded brass.

💧 **Aggressive Water** - Water with low pH (less than 7), high dissolved oxygen, or high chloride and sulfate levels can react with metals like copper, leaded brass, and ductile iron, leading to faster corrosion.

💧 **Microbial Induced Corrosion (MIC)** – Highly destructive form of corrosion caused by bacteria and microorganisms that thrive in moist environments. MIC occurs when these microbes attach to metal surfaces and form a sticky, protective layer called a biofilm. Once established, this biofilm traps corrosive agents like oxygen, salts, and acids. The bacteria produce aggressive byproducts that attack the metal underneath.

💧 **Surface Water** - Water from rain, runoff, or splash zones can carry dissolved solids, increasing the risk of corrosion — especially when valves are submerged or regularly exposed to moisture.

💧 **Hot Soil** - Wet soil with low pH (acidic conditions) can be very corrosive to ACVs. This often happens when the soil is contaminated by runoff or waste materials.

Protect Against MIC with



The ArmorTek system is a patented, three-part system designed to create a barrier against MIC corrosion. ArmorTek is a pre-applied, advanced coating system integrated into the manufacturing process of Watts branded valves.



- 1 Anti-corrosion primer:** Electrochemical inhibitor defends iron substrate in the event of exposure from wear or impact.
- 2 Microbial inhibitor:** Prevents the growth of MIC and the tubercles that could clog and foul equipment.
- 3 High-strength top layer:** Epoxy polyester bonds to the primer forming a durable barrier.

ArmorTek extends valve life, reducing costly replacements and unplanned downtime.



▶ Learn more about ArmorTek

Understanding Ductile Iron Automatic Control Valves

Automatic Control Valves (ACVs) regulate flow and pressure in plumbing systems, water mains, storage tanks, and pumping stations. Known for their reliability and long service life, they help maintain system performance and efficiency.

Corrosion in ACVs can lead to higher maintenance costs and negatively affect water quality and appearance.

Sizes Available
1¼" – 24"



Watts & Ames ACV Offering

- ✓ Pressure Reducing Control Valve
- ✓ Pressure Relief Control Valve
- ✓ Altitude Control Valve
- ✓ Non-Surge Check Control Valve
- ✓ Booster Pump Control Valve
- ✓ Deep Well Pump Control Valve
- ✓ Solenoid Control Valve
- ✓ Rate of Flow Control Valve
- ✓ Float Control Valve
- ✓ Electronic Control Valve
- ✓ Pre-Engineered Valve Stations
- ✓ Shut Off Control Valves–Manual Reset