Flow Control for Fire Protection

Valve Solutions From An Industry Leader

AmesFireWater.com

AMES
FIRE & WATERWORKS
A WATTS Brand
Count on the Fire Protection Leader for Reliable Flow Control Solutions

Ames provides a range of high-quality products designed for use in fire protection sprinkler systems. Our portfolio includes backflow preventers, relief valves, UL ball valves, automatic control valves (ACVs), gear-operated ball valves, UL strainers, and in-building risers.

What sets our products apart
• High quality and unmatched performance
• Industry proven reliability
• Designed for easy serviceability
• ACVs with fused-epoxy coating that prolongs valve life
• Lighter, more compactly designed backflow preventers
• Lower installation costs
• ACVs fabricated with stainless steel
• Stainless steel products for severe situations inside and out
• UL listed/classified as well as locally required approvals

Typical Applications for Ames Fire Protection

**Residential**
Single family, apartments, condominium buildings

**Commercial**
Hotels, sporting arenas, manufacturing facilities, corporate buildings, distribution centers, office buildings, retail stores
Build quality and reliability into your fire protection system from the ground up.

Ames UL/FM Listed/Classified Fire Protection products provide flow control throughout a sprinkler system:

- Backflow preventers protect the water system
- Gear-operated ball valves provide on/off control
- ACVs help reduce and relieve pressure
- Strainers to keep debris from impacting systems performance
- Risers ease system installation

Institutional
Colleges, universities, and schools; nursing homes, religious centers, research centers, hospitals

Industrial
Power generation facilities, aircraft hangers, oil refineries, paper mills, agricultural, water treatment
Backflow Preventers

**Colt and Maxim Series**

The short lay length, light weight, and compact design of the Colt and Maxim Series backflow preventers make them easy to install and the preferred choice of design engineers.

Available in DC/DCDA/RP/RPDA configurations.

- Lowest certified pressure loss
- Valve body and closure sleeve manufactured from 300 series stainless steel for longevity
- Available with UL/FM OS&Y or NRS gate valves or UL/FM butterfly valves
- Approved for horizontal, vertical, “N” pattern, or “Z” pattern installations
- BAA compliant
- Sizes 2½” – 10”

Bronze Assemblies

**Series 2000, 3000, and 4000**

This Series includes a quarter-turn ball valve, slow-close gear-operated ball valve, and hydrant shutoff options.

Available in DC/DCDA/RP configurations.

- Compact design
- Threaded and grooved options
- Low pressure loss
- Replaceable seats and seat discs
- Pre-wired tamper switches (2 per shutoff) with reversible wiring harness
- Sizes 1” – 2” cast bronze body construction

Slow-Close Gear-operated Ball Valves

**LFAFBV-FP**

Full-port, gear-operated ball valves are specifically designed for fire-suppression applications.

- Full port allows for low pressure loss versus butterfly style alternative
- Slow-closure rate effectively prevents water hammer and complies with NFPA 13 (6.7.1.2)
- Can be wired in either Normally-Open or Normally-Closed position
- Industry leading maximum rated operating pressure 400 PSIG
- Threaded and grooved end connections
- Reversible supervisory switch box simplifies electrical wiring access with field repairable relay switch
- Sizes 1” – 2” diameters
Automatic Control Valves

Series 910GF/910AF Pressure Reducing Valve

These ACVs reduce high inlet pressure to a constant, lower outlet pressure across a broad range of flow.

- UL listed valves typically installed in commercial or industrial fire sprinkler systems
- Automatically open and close to maintain pressure setting
- Diaphragm-actuated, pilot-operated valves are sensitive to downstream flow and pressure fluctuations
- Field-adjustable downstream pressure set point
- Stainless steel seat ring, disc guide, and shaft for corrosion protection
- Xylan coating for greater piece of mind in hard/scaling water
- Threaded flange & grooved end connection
- Sizes 1.25” – 8”

920 Series UL/FM approved Fire pump valves

Pressure-relief/sustaining valves open when inlet pressure is above the field adjustable set point.

- Available in globe or angle configurations for use in conjunction with fire pump systems
- Valves relieve excess pressure in pumping system to protect the downstream fire protection system
- Field adjustable set pressures
- UL/FM approved Deluge and Pump Suction Control Valves also available
- Allows the fire pump to reach a controlled stop, without surging by diverting output to discharge as the fire demand slows
- Stainless steel seat ring, disc guide and shaft for corrosion protection
- Sizes 1.5” – 8”

Deluge Valve – Pneumatic Hydraulic Electric Actuated

900DF-A (Globe)

The Ames ACV 900DF-A (Globe) Deluge Valve meets all requirements for UL listed, fire protection service. The design and features incorporated in the Ames ACV Valves assure accurate control, dependable performance, and long life.

- Sizes 3” – 10”
- Approved for both vertical and horizontal installations.
- DI body with SS internals.
- Hydraulically or pneumatically actuated.
- UL approved: 175 psig maximum pressure

900DF-B (Globe)

The Ames ACV 900DF-B (Globe) Deluge Valve meets all requirements for UL listed, fire protection service. The design and features incorporated in the Ames ACV Valves assure accurate control, dependable performance, and long life.

- Sizes 3” – 108”
- Approved for both vertical and horizontal installations.
- DI body with SS internals.
- Electrically actuated.
- UL approved: 175 psig maximum pressure.
**Detector Check Valve**

**Series 1000SS**

Series 1000SS Detector Check Valves detect any leakage or unauthorized use of water from fire or automatic sprinkler systems.

- Lightest weight in the industry
- Designed to meet NSF standards
- Check assemblies are based on popular modular design that has been proved in field use for over 15 years
- Lifting rings standard on 8" & 10" (200 & 250mm) devices for ease of installation
- No special tools required for servicing
- Optional bypass assembly available
- Approved for mounting in horizontal/vertical positions
- Custom tap sizes available upon request
- Non-corrosive stainless steel construction

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**Pressure Relief Valve**

**Model FP53L**

This valve is designed for use in fire protection grid systems to provide protection against excessive water pressure caused by thermal expansion or line surge.

- Underwriters Laboratory listed
- Forged stainless steel spring
- Bronze body construction for superior strength and to prevent corrosion
- Manual test lever
- Valve stem is guided to enhance reseating
- ½" (15mm) male inlet x female outlet
- Pressure settings: 175psi (12.1 bar)
- This product can be found on Watts.com

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**System Pressure Relief Valve**

**Model LFPV20CB**

LFPV20CB is a direct sensed direct acting; diaphragm actuated System Pressure Relief Valve. The intended installations are in systems where it is anticipated that the internal pressure exceeds the rated pressure of the system components, or for installation downstream of a pressure reducing valve in accordance with ANSI/NFPA 13.

- Sizes ½" – ¾" NPT
- UL and FM approved.
- Max. inlet pressure: 450 psig
- Lead Free body design

* The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
**Fire Service Accessories**

**7001, 7002 UL/FM Strainers**
Protects critical fire system equipment from debris and fouling.
- Epoxy-coated, steel body with flanged or grooved connections
- UL listed and FM approved
- Maximum working pressure: 175psi (12 bar)
- Single or dual port clean-out options
- Sizes 3" – 10"

**In-building Risers**
In-building risers are used to connect the main fire supply to the building fire suppression system. The fitting passes under the foundation without joints and extends up through the floor. Required by CA state fire marshal.
- Provided with installation tabs, lifting lugs, and a pressure test caps
- CIPS (cast iron pipe size) coupler for easy connection to the underground supply (AWWA C900 PVC) and ductile iron pipe (Sizes 4"-10")
- Industry standard grooved end connection (AWWA C606) on the building side for easy connection to overhead fire sprinkler system
- Male NPT inlet available on sizes 2"-3"
- Standard 6'x6' configuration with custom lengths from 3' to 20' available
- UL/FM/NSF 61 approved
- Sizes 2" – 10" diameter

**Ball Valves**

**Series LFFBV-3C, LFFBVS-3C**
Series LFFBV-3C 2-piece, full port, Lead Free* ball valves are used in commercial and industrial applications for a full range of liquids and gases.
- Lead Free* forged copper silicon alloy body and adapter
- Certified to NSF/ANSI standard 61/8
- CSA approved threaded valves only ¼" – 3" (15 – 80mm)
- UL/FM approved threaded valves ¼" – 2" (8 – 50mm)
- FM approved solder valves ½" – 2" (15 – 50mm)
- UL Listed solder valves ½" – 2" (15 – 50mm)
- Fluorocarbon elastomer stem O-ring prevents stem leaks
- Adjustable stem packing gland
- PTFE stem packing seal, thrust washer, and seats
- Bottom loaded blowout proof stem
- Machined chrome plated Lead Free* brass ball
- Valves comply to MSS-SP-110 standard
- This product can be found on Watts.com

* The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.
Watts Family of Brands

Watts designs, manufactures, and sells an extensive line of flow control, water safety, water filtration & treatment, drainage, and PEX plumbing products.

The Watts family of companies provides a single source for solutions used to safely convey, conserve, and manage water.

Making Watts your single source for plumbing-related solutions will streamline your operations, save you money, and reduce the variety of repair parts needed for maintenance.

Approvals

Backflow Preventer Assemblies Approved by the Foundation for Cross-Connection Control and Hydraulic Research at The University of Southern California (FCCCHR-USC)

Please reference product specification sheets for full list of industry certification and approvals.

To locate your nearest Ames representative, go to AmesFireWater.com